

TYPE: _____ QUANTITY: _____ PROJECT: _____

CATALOG NUMBER: _____

FIXTURE

LED LIGHT SELECTION

COLUMN

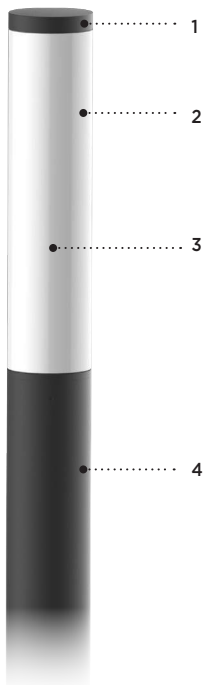
VOLTAGE

FINISH

OPTION

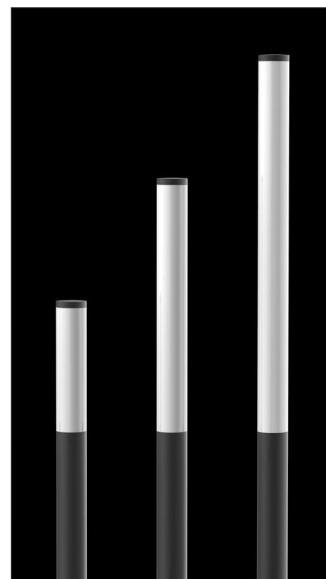
OPTION

OPTION



- 1- Heavy cast aluminum top cover with embedded heat sink.
- 2- Ø 6" (152mm) High impact white translucent acrylic diffuser UV stabilized.
- 3- LED array.
- 4- Ø 6" (152mm) Extruded aluminum column.

CL620/CL640/CL670



MATERIALS

LumiSTIK column is made of 6061-T6 extruded aluminum alloy. All other cast parts are corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%.

LED boards are contained in a white UV stabilized high impact acrylic sealed cylinder. The assembly is designed to provide a uniform column illumination.

LumiSTIK column is available in three standard acrylic lengths. Other lengths are available on request.

ELECTRICAL

DRIVER Standard driver is 0-10V dimming-ready (dims to 10%) with: 120-277 multi-volt compatibility (50-60Hz), operating temperature range of -40°C to +55°C/-40°F to +131°F, output over voltage protection, output over current protection and output short circuit protection with auto-recovery. Driver for RGBW is DMX512 / RDM compatible.

LED 2700K/3000K/3500K/4000K CCT with 80 CRI. Optional RGBW.

LIFE

50,000hrs $L_{85}B_{50}$ (based on IESNA TM-21 Test Method and LM-80 data).

FINISH

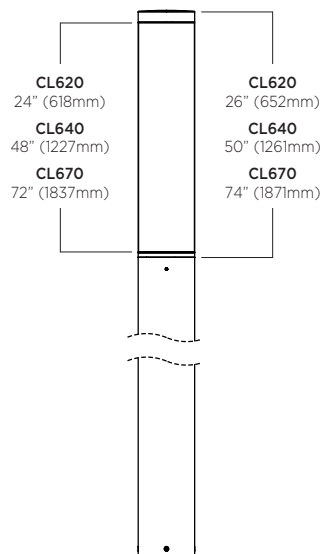
Five-stage preparation process includes preheating of cast aluminum parts for air extraction. Polyester powder coating is applied through an electrostatic process, and oven cured for long term finish.

CERTIFICATION

Tested to UL1598 and CSA 22.2 #250. ETL listed wet location. Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C. Lumen depreciation in accordance with IESNA LM80 standards. Rated IP65.

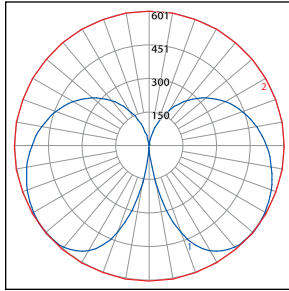
MOUNTING

LumiSTIK column is designed for ease of access and installation. See page 3 for mounting details.



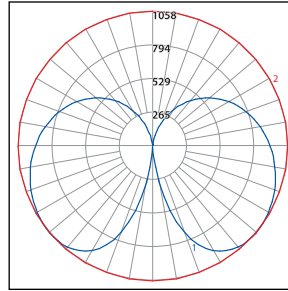
CL620/CL640/CL670 SERIES LumiSTIK - LED

TYPICAL PHOTOMETRY SUMMARY



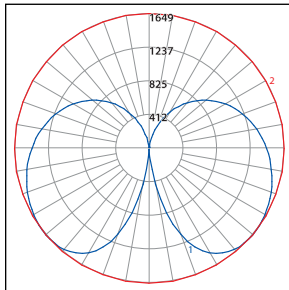
Descriptive Information

CL620-L4L50
Total Lms: 5695 Lumens
Total Input Watts: 58.8 W
Efficacy: 97 Lumens/Watt
BUG: B2-U5-G3
CCT/CRI: 4000K/80
Maximum Candela: 600 @ 42.5°H/29°V



Descriptive Information

CL640-L8L100
Total Lms: 10,029 Lumens
Total Input Watts: 100.9 W
Efficacy: 99 Lumens/Watt
BUG: B3-U5-G4
CCT/CRI: 4000K/80
Maximum Candela: 1058 @ 42.5°H/29°V



Descriptive Information

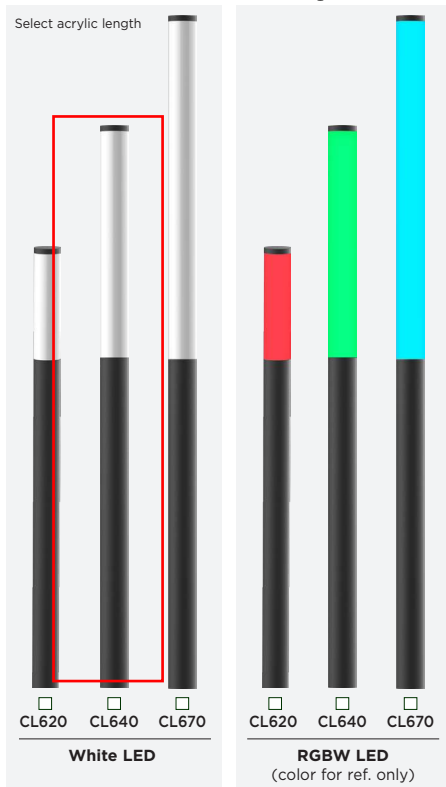
CL670-L12L150
Total Lms: 15,629 Lumens
Total Input Watts: 159.1 W
Efficacy: 98 Lumens/Watt
BUG: B3-U5-G5
CCT/CRI: 4000K/80
Maximum Candela: 1649 @ 42.5°H/29°V

Please visit our web site www.luminis.com for complete I.E.S. formatted download data.

LUMINAIRE SELECTION

1 MODEL SELECTION

Select acrylic length



2 LED LIGHT SELECTION

WHITE LED (4000K/ 80CRI)

SUFFIX	DELIVERED LUMENS	INPUT WATTS	LM / FT
<input type="checkbox"/> L4L10	1210	11	605
<input type="checkbox"/> L4L20	2041	18	1020
<input type="checkbox"/> L4L30	3170	30	1585
<input type="checkbox"/> L4L40	4270	42	2135
<input type="checkbox"/> L4L50	5695	59	2847

SUFFIX	DELIVERED LUMENS	INPUT WATTS	LM / FT
<input type="checkbox"/> L8L20	2217	20	554
<input type="checkbox"/> L8L40	4035	37	1008
<input type="checkbox"/> L8L60	5757	54	1439
<input type="checkbox"/> L8L80	8352	82	2088
<input type="checkbox"/> L8L100	10029	101	2507

SUFFIX	DELIVERED LUMENS	INPUT WATTS	LM / FT
<input type="checkbox"/> L12L30	3224	29	537
<input type="checkbox"/> L12L60	6053	55	1008
<input type="checkbox"/> L12L90	8597	81	1432
<input type="checkbox"/> L12L120	12329	121	2054
<input type="checkbox"/> L12L150	15629	159	2604

RGBW SELECTION (CONTROLLED WITH DMX/RDM)*

SUFFIX	DELIVERED LUMENS	INPUT WATTS	LM / FT
CL620 <input type="checkbox"/> L4RGBW	2046	35	1023
CL640 <input type="checkbox"/> L8RGBW	4158	71	1039
CL670 <input type="checkbox"/> L12RGBW	6272	108	1045

Note: Values are for total delivered lumens. For individual maximum output values, refer to page 3. White CCT is 4000K & 80CRI.

3 OAH COLUMN SELECTION

POLE FOR:	CL620	CL640	CL670
<input type="checkbox"/> CLP670	96"	120"	144"
<input type="checkbox"/> CLP694	120"	144"	168"
<input type="checkbox"/> CLP6118	144"	168"	192"
<input type="checkbox"/> CLP6142	168"	192"	216"
<input type="checkbox"/> CLP6166	192"	216"	240"

(OAH Column consists of acrylic + pole)

4 VOLTAGE¹

- ☐ 120V
- ☐ 277V

- Optional
- ☐ 347V
 - ☐ 480V

5 FINISH

STANDARD COLORS

- ☐ WHT Snow white
- ☐ BKT Jet black
- ☐ BZT Bronze
- ☐ MST Matte silver
- ☐ GRT Titanium gray
- ☐ DGT Gun metal
- ☐ CHT Champagne
- ☐ SGT Steel gray
- ☐ BGT English cream

(Refer to color chart)

OPTIONAL COLORS

- ☐ CS Custom color
 - ☐ RAL RAL# color
 - ☐ MG Marine Grade⁵
- (Ensure to also select the standard color)

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Luminaires may be altered for design improvement or discontinued without prior notice.

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Apr. 2021 Rev.1

CL620/CL640/CL670 SERIES

LumiSTIK - LED

OPTIONS

ELECTRICAL

- ☐ **FS** Fuse
- ☐ **PH** Photocell²
- ☐ **SP** Surge protector 10KV

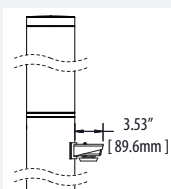
CCT & CRI

Alternate CCT °K LED for white LED. (LCF: Lumen conversion factor)

- ☐ **K27** 2700K CCT 80 CRI (LCF: 0.91)
 - ☐ **K3** 3000K CCT 80 CRI (LCF: 0.94)
 - ☐ **K35** 3500K CCT 80 CRI (LCF: 0.98)
 - ☐ **K4** 4000K CCT 80 CRI (LCF: 1.00)
- NOTE: Other CCT & higher CRI available, please consult factory. Does not apply for RGBW.

MOTION SENSOR DEVICE

- ☐ **MSD** Motion sensor device (High/low to 25%) 255° coverage
Installed at 180° from hand hole
120/277VAC, 50/60Hz (or 230VAC, 50Hz)

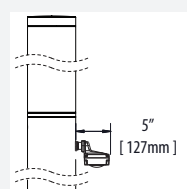


ACCESSORIES

- ☐ **GFI** Ground fault interruption receptacle³
- ☐ **CGF** Ground fault interruption with clear in-use cover³
- ☐ **BNF** Fixed 24" banner support (single arm at top)⁴
- ☐ **2BNF** Two fixed 24" banner supports (arm at top & bottom)⁴
- ☐ **BNF180** Two fixed 24" banner supports at 180° (arms at top only)⁴
- ☐ **2BNF180** Four fixed 24" banner supports at 180° (arms at top & bottom)⁴
- ☐ **DECO1**^{10,11} Full decorative shroud with round perforations. See page 5 for more details.
- ☐ **DECO2**^{10,11} Full decorative shroud with vertical slots. See page 5 for more details.
- ☐ **DECO3**^{10,11} Half blackout shield. See page 5 for more details.
- ☐ **DECO4**¹¹ Half blackout shield. Field installable. See page 5 for more details.

CONTROL

- ☐ **NLTAIR2** nLight AIR Control gen2, Pole mounted black sensor.^{6,7} 270° coverage. Installed at 180° from hand hole.



NOTES

- 1- Luminaires are factory prewired by default for 120V. For other voltages, please specify with catalog number, or consult factory.
- 2- Photocell installed on the side of the fixture.
- 3- GFI and CGF options are installed 26" above grade unless otherwise specified. CGF cover protrudes by Ø 3.62" (92mm). 120V required for GFI or CGF.
- 4- BNF, 2BNF, BNF180 & 2BNF180 are factory set in position as required. Location along pole to be specified.
- 5- Marine grade paint for harsh, coastal environment and exposure to salt water. Additional delay required please contact factory for info.
- 6- Not compatible with PH, MSD.
- 7- White sensor available upon request.
- 8- OAH increases by 1" for RGBW models. See page 5 for details.
- 9- RGBW not available with 347V, 480V, PH, MSD, NLTAIR2.
- 10- OAH varies for DECO1/2/3 models. See page 5 for details.
- 11- Not compatible with RGBW.

RGBW DETAILS

RGBW DMX

Total delivered lumens⁹

	Maximum output values								
	WHITE 4000K			TOT RGB			TOT		
	W	lm	lm/ft	W	lm	lm/ft	W	lm	lm/ft
CL620	9	1041	521	26	1005	502	35	2046	1023
CL640	19	2123	531	52	2035	508	71	4158	1039
CL670	28	3205	534	79	3067	511	108	6272	1045

The fixtures will be delivered with the default address 1.

RGBW - DMX / RDM 4 channels

Users can generate any color by mixing the intensity of four independent red, green, blue and white channels.

COLOR	R	G	B	W
CHANNEL	1	2	3	4

NOTE: Default factory settings.
Controller supplied by others.

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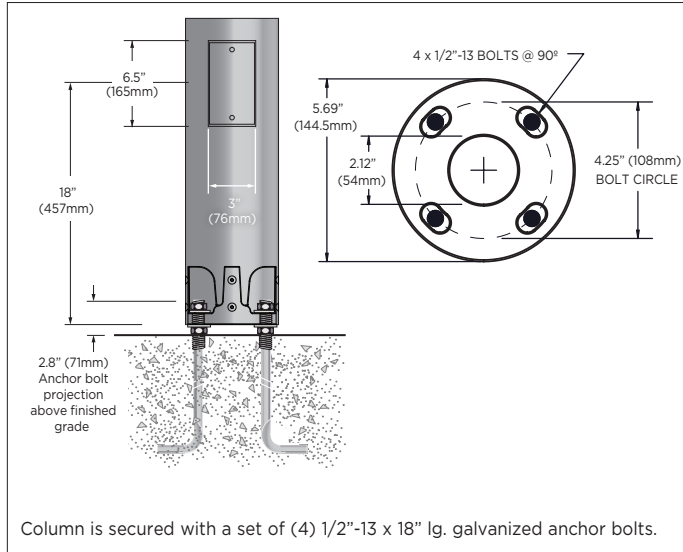
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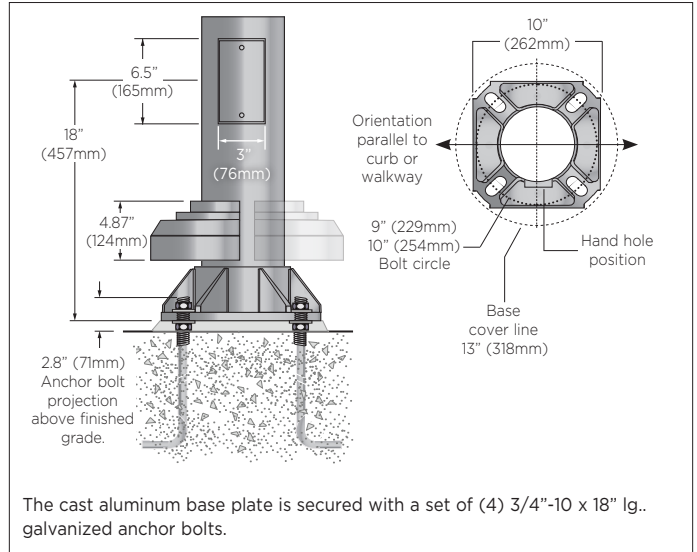
CL620/CL640/CL670 SERIES LumiSTIK - LED

MOUNTING INFORMATION

OVERALL HEIGHTS FROM 96" (8FT) TO 144" (12FT)



OVERALL HEIGHTS ABOVE 144" (12FT)



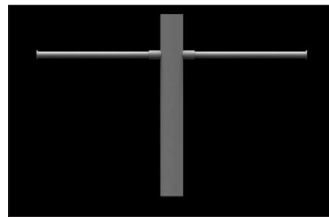
MOUNTING ACCESSORIES



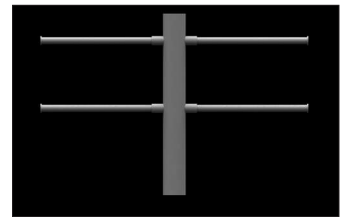
BNF: Fixed 24" banner support



2BNF: Two fixed 24" banner supports



BNF180: Two fixed 24" banner supports at 180°

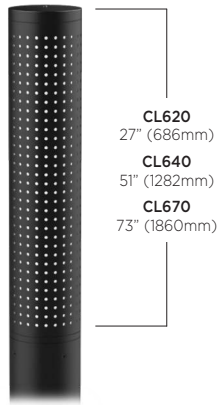


2BNF180: Four fixed 24" banner supports at 180°



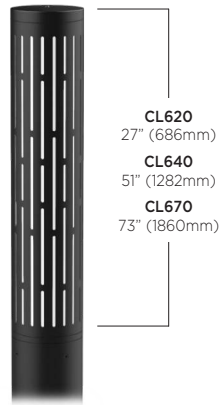
CL620/CL640/CL670 SERIES LumiSTIK - LED

ACCESSORIES



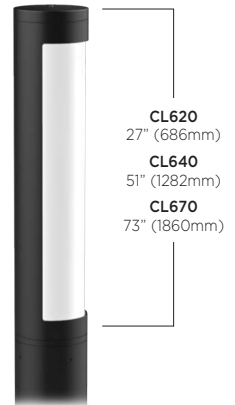
DECO1

Decorative shroud. 360° shield with circular pattern. 9% light transmission.
Cannot be installed on-site.
(CL620 shown here)



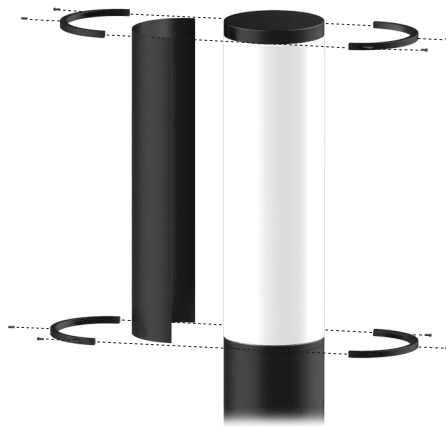
DECO2

Decorative shroud. 360° shield with vertical slot pattern. 23% light transmission.
Cannot be installed on-site.
(CL620 shown here)



DECO3

Blockout 180° shield.
Cannot be installed on-site.
(CL620 shown here)



DECO4

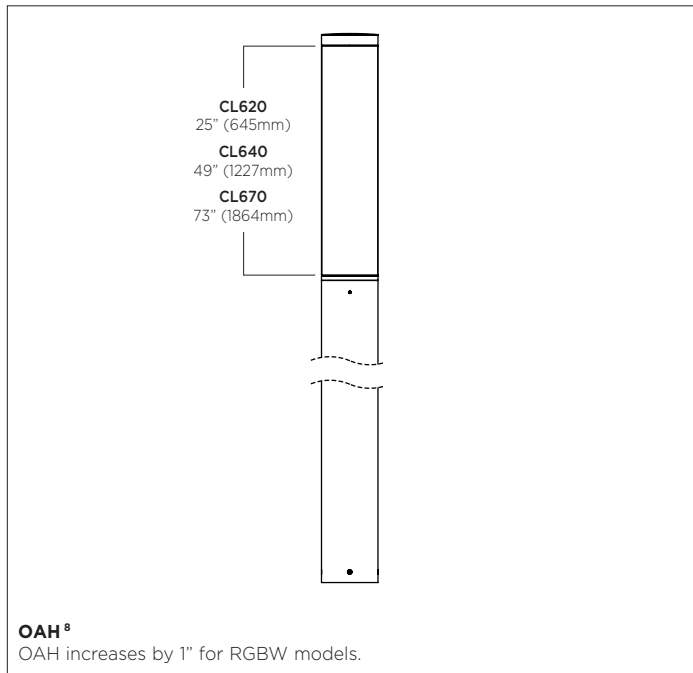
Blockout 180° shield. Field installable.
(CL620 shown here)



CL613/CL623 SERIES

LumiSTIK - LED

RGBW DIMENSIONS



TYPE: _____ QUANTITY: _____ PROJECT: _____

CATALOG
NUMBER:

FIXTURE

LED LIGHT
SELECTION

VOLTAGE

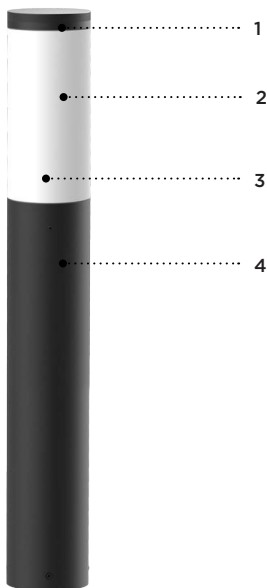
FINISH

OPTION

OPTION

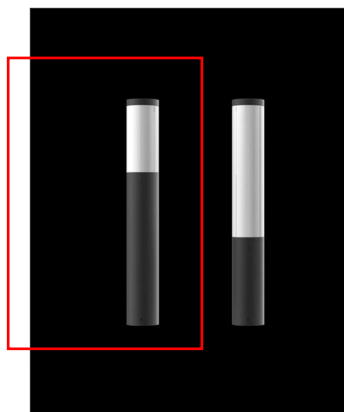
OPTION

OPTION



- 1- Heavy cast aluminum top cover with embedded heat sink.
- 2- Ø 6" (152mm) High impact white translucent acrylic UV stabilized.
- 3- LED array.
- 4- Ø 6" (152mm) extruded aluminum base.

CL613/CL623



MATERIALS

LumiSTIK bollard is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%.
LED is contained in a white UV stabilized high impact acrylic sealed cylinder. The assembly is designed to provide a uniform column illumination.

ELECTRICAL

DRIVER Standard driver is 0-10V dimming-ready (dims to 10%) with: 120-277 multi-volt compatibility (50-60Hz), operating temperature range of -40°C to +55°C/-40°F to +131°F, output over voltage protection, output over current protection and output short circuit protection with auto-recovery. Driver for RGBW is DMX512 / RDM compatible.

LED 2700K/3000K/3500K/4000K CCT with 80 CRI. Optional RGBW.

LIFE

50,000hrs $L_{85B_{50}}$ (based on IESNA TM-21 Test Method and LM-80 data).

FINISH

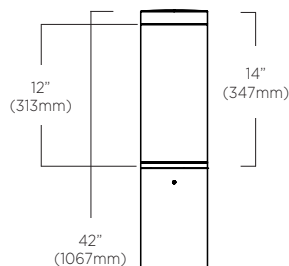
Five-stage preparation process includes preheating of cast aluminum parts for air extraction. Polyester powder coating is applied through an electrostatic process, and oven cured for long term finish.

CERTIFICATION

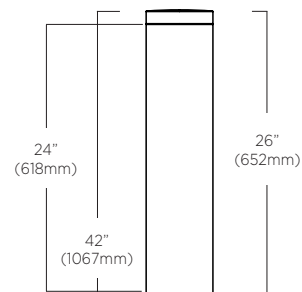
Tested to UL1598 and CSA 22.2 #250. ETL listed wet location. Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C. Lumen depreciation in accordance with IESNA LM80 standards. Rated IP65.

MOUNTING

Mounts with a set of 4 x 1/2"-13 x 18" lg. galvanized anchor bolts. See page 3 for mounting details.

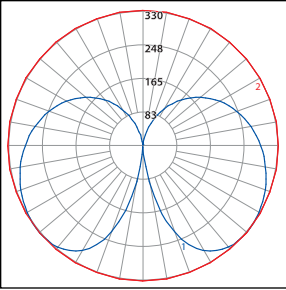


CL613

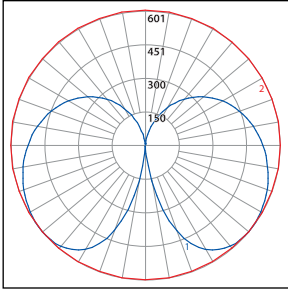


CL623

TYPICAL PHOTOMETRY SUMMARY



Descriptive Information
 CL613-L4L30
 Total Lms: 3129 Lumens
 Total Input Watts: 32.2 W
 Efficacy: 97 Lumens/Watt
 BUG: B1-U4-G2
 CCT/CRI: 4000K/80
 Maximum Candela: 330 @ 42.5°H/29°V

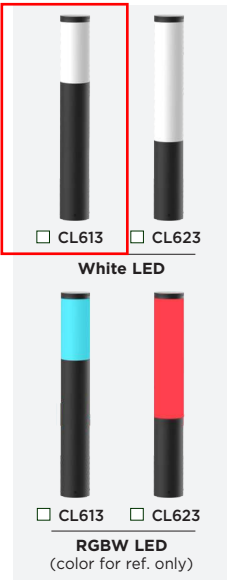


Descriptive Information
 CL623-L4L50
 Total Lms: 5695 Lumens
 Total Input Watts: 58.8 W
 Efficacy: 97 Lumens/Watt
 BUG: B2-U5-G3
 CCT/CRI: 4000K/80
 Maximum Candela: 600 @ 42.5°H/29°V

Please visit our web site www.luminis.com for complete I.E.S. formatted download data.

LUMINAIRE SELECTION

1 MODEL



2 LED LIGHT SELECTION

WHITE LED (4000K/ 80CRI)				
	SUFFIX	DELIVERED LUMENS	INPUT WATTS	LM / FT
CL613	<input type="checkbox"/> L4L5	605	5	605
	<input type="checkbox"/> L4L10	1009	9	1009
	<input type="checkbox"/> L4L15	1585	15	1585
	<input type="checkbox"/> L4L20	2135	21	2135
	<input type="checkbox"/> L4L30	3129	32	3129
	SUFFIX	DELIVERED LUMENS	INPUT WATTS	LM / FT
CL623	<input type="checkbox"/> L4L10	1210	11	605
	<input type="checkbox"/> L4L20	2041	18	1020
	<input type="checkbox"/> L4L30	3170	30	1585
	<input type="checkbox"/> L4L40	4270	42	2135
	<input type="checkbox"/> L4L50	5695	59	2847
RGBW SELECTION (CONTROLLED WITH DMX/RDM) 7				
	SUFFIX	DELIVERED LUMENS	INPUT WATTS	LM / FT
CL613	<input type="checkbox"/> L4RGBW	1154	21	1154
CL623	<input type="checkbox"/> L4RGBW	2046	35	1023
Note: Values are for total delivered lumens. For individual maximum output values, refer to page 3. White CCT is 4000K & 80CRI.				

3 VOLTAGE 1

- ☐ 120V
☐ 277V
 Optional
☐ 347V
☐ 480V

4 FINISH

STANDARD COLORS	
<input type="checkbox"/> WHT	Snow white
<input type="checkbox"/> BKT	Jet black
<input type="checkbox"/> BZT	Bronze
<input type="checkbox"/> MST	Matte silver
<input type="checkbox"/> GRT	Titanium gray
<input type="checkbox"/> DGT	Gun metal
<input type="checkbox"/> CHT	Champagne
<input type="checkbox"/> SGT	Steel gray
<input type="checkbox"/> BGT	English cream
(Refer to color chart)	
OPTIONAL COLORS	
<input type="checkbox"/> CS	Custom color
<input type="checkbox"/> RAL	RAL# color
<input type="checkbox"/> MG	Marine Grade 5
(Ensure to also select the standard color)	

OPTIONS

ELECTRICAL

- ☐ REML2-50 Remote mount battery backup for LED 90 mins, 7W
 Remote mount to 50ft. 12" square enclosure with acces cover²
☐ FS Fuse
☐ PH Photocell³
☐ SP Surge protector 10KV

ACCESSORIES

- ☐ GFI Ground fault circuit interruption receptacle (CL613 only)⁴
☐ CGF Ground fault circuit interruption with clear in-use cover (CL613 only)⁴
☐ DECO1^{8,9} Full decorative shroud with round perforations. See page 4 for more details.
☐ DECO2^{8,9} Full decorative shroud with vertical slots. See page 4 for more details.
☐ DECO3^{8,9} Half blackout shield. See page 4 for more details.
☐ DECO4⁹ Half blackout shield. Field installable. See page 4 for more details.

CCT & CRI

- Alternate CCT °K LED for white LED. (LCF: Lumen conversion factor)
☐ K27 2700K CCT 80 CRI (LCF: 0.91)
☐ K3 3000K CCT 80 CRI (LCF: 0.94)
☐ K35 3500K CCT 80 CRI (LCF: 0.98)
☐ K4 4000K CCT 80 CRI (LCF: 1.00)
 NOTE: Other CCT & higher CRI available, please consult factory. Does not apply for RGBW.

MOUNTING

- ☐ PR6 Pedestal mount adaptor. OAH 26" (660mm). (CL613 only)

NOTES

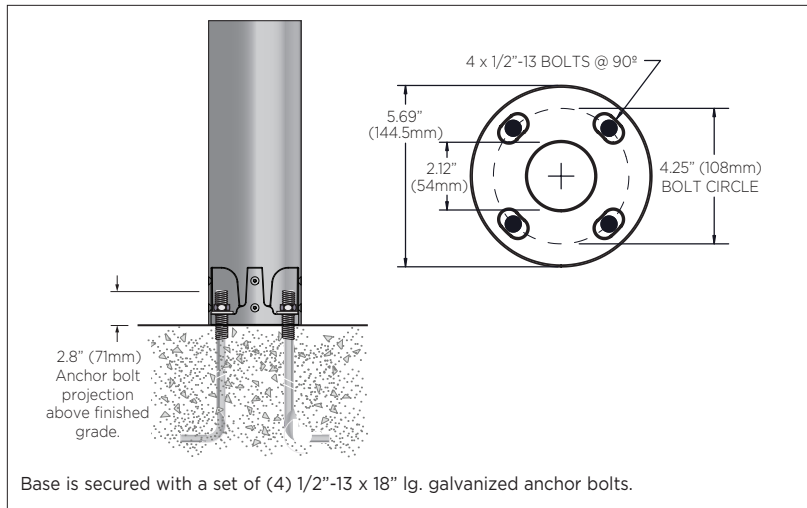
- 1- If no voltage is specified, luminaires are factory prewired by default for 120V. For other voltages, please specify with catalog number, or consult factory.
 2- The remote enclosure must be interior.
 3- Photocell installed on the side of the fixture.
 4- GFI and CGF options are installed 15" above grade unless otherwise specified. CGF cover protrudes by Ø 3.62" (92mm). 120V required for GFI or CGF.
 5- Marine grade paint for harsh, coastal environment and exposure to salt water. Additional delay required please contact factory for info.
 6- OAH increases by 1" for RGBW models. See page 4 for details.
 7- RGBW not available with 347V, 480V, REML2-50, PH.
 8- OAH increases by 1.3" for DECO1/2/3 models. See page 4 for details.
 9- Not compatible with RGBW.



CL613/CL623 SERIES

LumiSTIK - LED

MOUNTING INFORMATION



RGBW DETAILS

RGBW DMX

Total delivered lumens⁷

	Maximum output values								
	WHITE 4000K			TOT RGB			TOT		
	W	lm	lm/ft	W	lm	lm/ft	W	lm	lm/ft
CL613	5	602	602	16	552	552	21	1154	1154
CL623	9	1041	521	26	1005	502	35	2046	1023

The fixtures will be delivered with the default address 1.

RGBW - DMX / RDM 4 channels

Users can generate any color by mixing the intensity of four independent red, green, blue and white channels.

COLOR	R	G	B	W
CHANNEL	1	2	3	4

NOTE: Default factory settings.
Controller supplied by others.

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CL613/CL623 SERIES LumiSTIK - LED

ACCESSORIES



CL613
15" (381mm)
CL623
27" (686mm)

DECO1

Decorative shroud. 360° shield with circular pattern. 9% light transmission. Cannot be installed on-site. (CL623 shown here)



CL613
15" (381mm)
CL623
27" (686mm)

DECO2

Decorative shroud. 360° shield with vertical slot pattern. 23% light transmission. Cannot be installed on-site. (CL623 shown here)



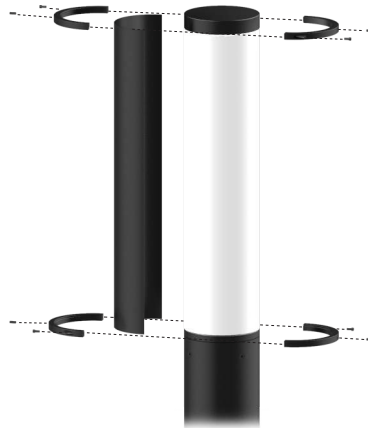
CL613
15" (381mm)
CL623
27" (686mm)

DECO3

Blockout 180° shield. Cannot be installed on-site. (CL623 shown here)



CL613
14" (347mm)
CL623
26" (652mm)



DECO4

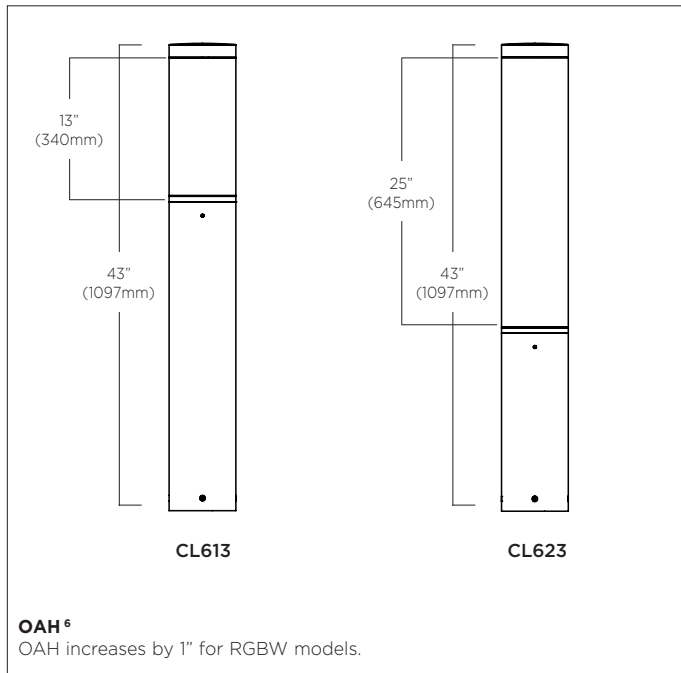
Blockout 180° shield. Field installable. (CL623 shown here)



CL613/CL623 SERIES

LumiSTIK - LED

RGBW DIMENSIONS



Date: _____ Customer: _____

Project: _____

Type: _____ Qty: _____

selux

LDC

University Place
Mall

FXM3

Proj.# 180.02

Mistella™ LED



Order Code: MST - - - - -

Pole Order
Code:

Series Height Finish Options

* See pages 4 and 6

MST	Series	MST Mistella™ LED										
	Optics	R1 Type I	R2 Type II	R3 Type III	R3W Type III (Wide)	R4 Type IV	R5R Type V (Round)	R5S Type V (Square)	R5Q Type V (Rectangular)	DG Diffuse Flat Glass	DB1 ¹ Diffuse Sagged Bowl	¹ DB1 option not Dark Sky
	Mounting	1 Single	2 Double	W Wall								
	Comfort Light Engine (DB1 & DG) OR Technical Light Engine (R1-R5Q)	MP350 nominal 33W/2965lm	MP530 nominal 48W/4443lm	MP700 nominal 61W/5613lm	MP900 nominal 79W/6951lm	MP105 nominal 92W/7796lm	MP140 nominal 129W/9544lm	*Based on 3000K CCT and DG optic				
		5G350 nominal 33W/3745lm	5G530 nominal 48W/5417lm	5G700 nominal 61W/6843lm	5G900 nominal 79W/8475lm	5G105 nominal 92W/9505lm	5G140 ² nominal 121W/11636lm	² For maximum ambient temperatures up to 40°C only *Based on 3000K CCT and R1 optics				
	CCT	27 ³ 2700K	30 ³ 3000K	40 4000K	³ 2700K and 3000K are IDA Approved *For other CCT please consult factory							
	Power Supply Wire Length	10 10'	12 12'	14 14'	16 16'	18 18'	20 20'	XX ⁴ XX'	⁴ Add length of arm and height of pole to determine power supply wire length			
	Finish	WH White	BK Black	BL Semi-Matte Black	BZ Bronze	SV Silver	SP Specify Premium Color					
	Voltage	UNV 120V-277V	120 ⁵ 120V	240 ⁵ 240V	277 ⁵ 277V	347 ⁶ 347V	480 ⁶ 480V	⁵ Specify for HL option ⁶ Not available with 5G140 or MP140 light engines				
	Options	DM ^{8,10} Dimming (0-10V)	HS ⁷ House Side Shield (180°)	HL30 ^{8,9} Hi-Lo Switching Low Output 30%	HL50 ^{8,9} Hi-Lo Switching Low Output 50%	TLR ^{8,9,10} Twist Lock Receptacle 7-Pin with Shorting Cap	TLRP Twist Lock Receptacle 3-Pin with Photocell	TLRLL ^{8,9,10} Twist Lock Receptacle 7-Pin with Lutron Limelight Module	⁷ Type I, II, III, and IV only ⁸ DM, HLXX, or TLR only. Cannot be combined. ⁹ 120V, 240V, or 277V only ¹⁰ Not available with HL or DM ¹¹ Cannot be combined with DG or DB1			
		GL ¹¹ Clear Flat Glass Lens	ROL Rotate optics left	ROR Rotate optics right	Pole Motion Sensor with optional photocell See page 8 for order code							



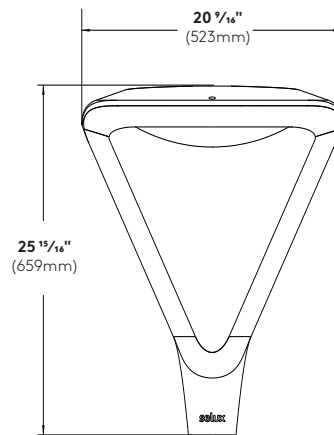
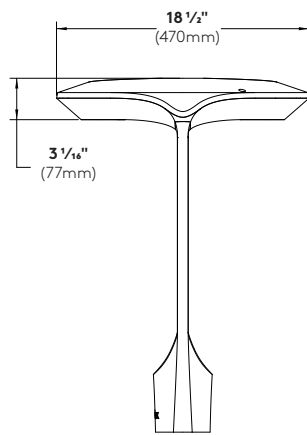
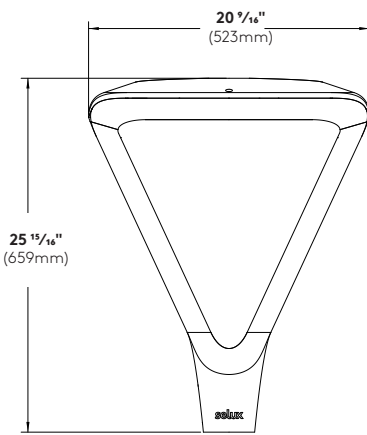
IP65



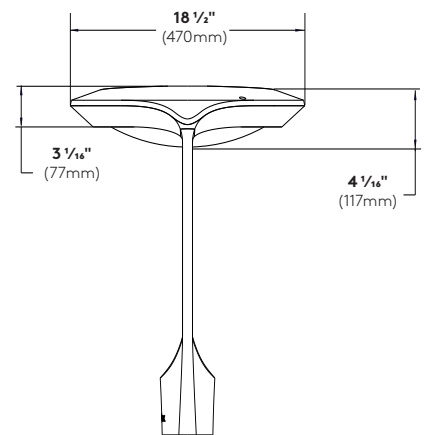
UNION
MADE



Gen5/DG Optic



DB1 Optic



Specifications

Luminaire Cover - Cast aluminum cover made from low copper aluminum.

Gasketing - Continuous gasket provides weatherproofing, dust, and insect control at all fixture connections.

LED Array - LEDs mounted to PC boards and attached to aluminum heat sink for maximum LED performance and life. 3-step MacAdams ellipse for 2700K, 3000K and 4000K. CRI minimum 80. Complete light engine can be removed easily for future upgrade.

LED Optics - Technical Optics (R1, R2, R3, R3W, R4, R5R, R5S, and R5Q) use Selux signature light pattern acrylic lens holder to secure proprietary silicone optics. Internal micro house side shield available for distribution types I, II, III & IV with or without clear glass option. DG and DB1 optics use a mid-power LED board. DG consists of recessed diffuse puck with flat clear glass. DB1 uses sagged diffuse polycarbonate bowl.

LED Driver - LEDs are driven by RoHS compliant constant current programmable LED driver. Driver includes 0-10V dimming to 10%, meets the requirements of IP66. Driver assembly located inside the head.

Arm/Arms - Cast aluminum arms support upper housing and optic assembly with built in pole fitter.

Pole Fitter - Self-leveling, die cast low-copper aluminum, fitter base secured to pole with stainless steel allen head set screws. Fitter for 3.5" (90mm) O.D. poles or poles with 3.5" tenon.

Surge Protector - Designed to protect luminaire from electrical surge (20kA).

Power Supply Wire - Pre-installed at factory. Please specify power supply wire length in accordance to height of the pole. Add two (2) feet to power supply wire length for single mount and four (4) feet for double arm mount.

Hi-Lo Switching Option - Please see page 6 for details.

Exterior Luminaire Finish - Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultraviolet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI. Standard exterior colors are White (WH), Black (BK), Semi-Matte Black (BL), Bronze (BZ), and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide.

5 Year Limited LED Luminaire Warranty -

Selux offers a 5 Year Limited Warranty to the original purchaser that the Mistella™ LED luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the LED driver and LED array when installed and operated according to Selux instructions. For details, see "Selux Terms and Condition of Sale."

Listings and Ratings: Luminaire and LED tested to IP65 and IESNA LM-79-08 standards. LED tested to LM-80 standards. Luminaire and LED tested at 25°C ambient temperature.

Luminaire suitable for ambient temperatures of 45°C. Minimum operating temperature of luminaire at -40°C (-40°F).

NRTL Listed (i.e. UL, CSA)

Visit selux.us for our LED End of Life recycling policy.

For Buy American compliance on poles, please consult the factory.

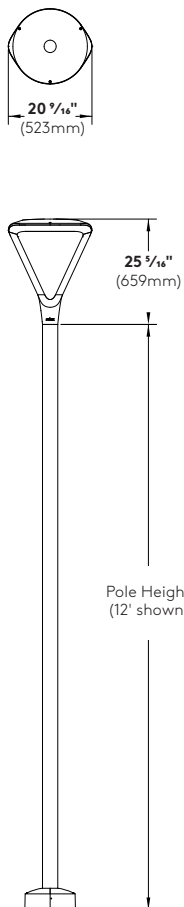
Mounting

Single (1)

Cast aluminum fitter base secured to pole with two stainless steel Allen head set screws.

EPA = 1.2ft² (0.11m²)

Weight = 18lbs. (8.2kg)

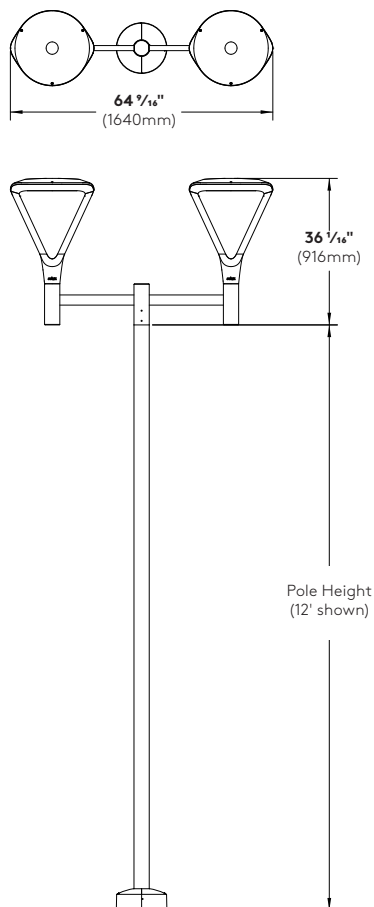


Double Arm Mount (2)

Structural aluminum double luminaire mounting arm secured to pole with six stainless steel Allen head set screws.

EPA = 3.4ft² (0.32m²)

Weight = 49lbs. (22.2kg)

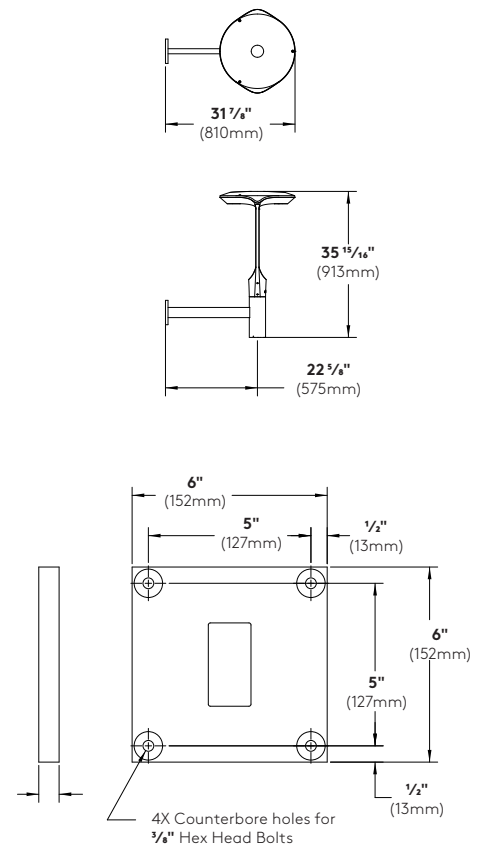


Wall (W)

Structural aluminum single luminaire mounting arm. Secured to wall with four 3/8" diameter threaded fasteners (by others).

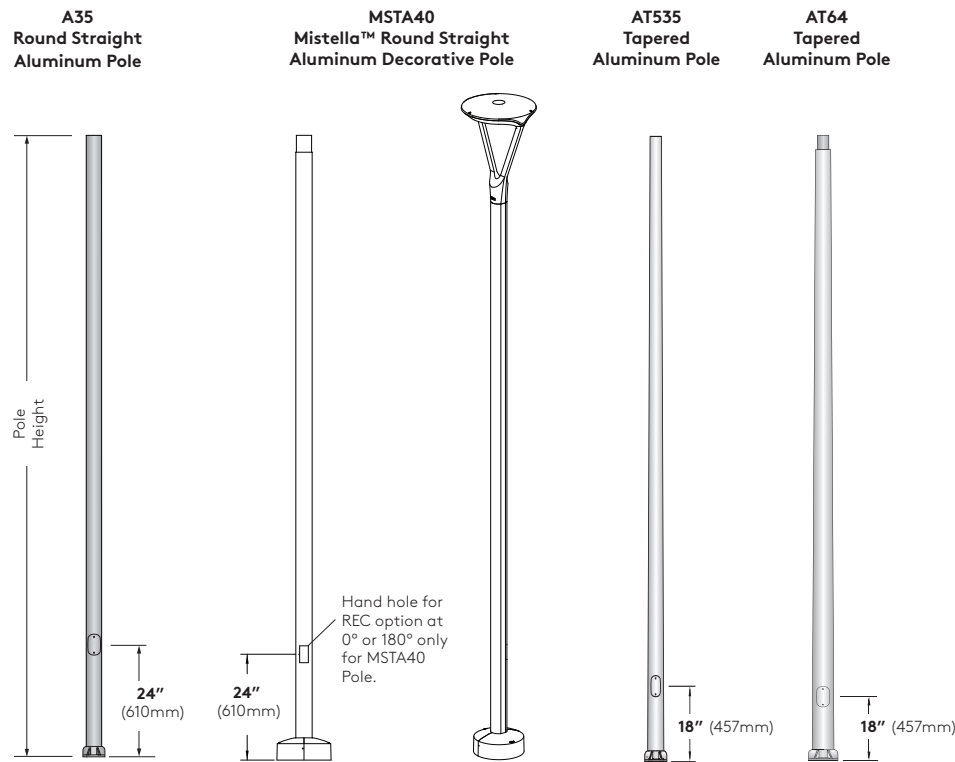
EPA = 1.6ft² (0.15m²)

Weight = 26lbs. (11.8kg)



Pole Information

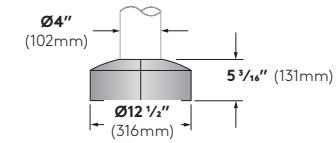
Refer to pole specification sheets for construction details, anchorage information and additional options.



Optional Base Covers for Poles

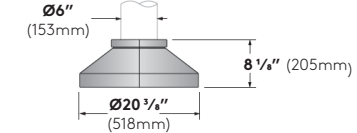
MSTBC13 Optional Base Cover (MSTA40)

Die cast aluminum, two-piece field installable base cover.



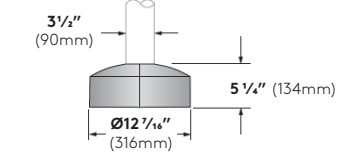
BC9 Optional Base Cover (AT64)

Die cast aluminum, two-piece field installable base cover.



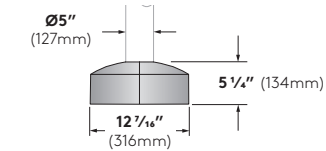
BC5 Standard Base Cover (AT35)

Die cast aluminum, two-piece field installable base cover.



BC3 Optional Base Cover (AT535)

Die cast aluminum, two-piece field installable base cover.



Pole Data Chart

Pole Series	Bolt Circle	EPA Information (ft ²)											Height	Finish	Options
		85 mph	90 mph	100 mph	110 mph	120 mph	130 mph	140 mph	150 mph	160 mph	170 mph	180 mph			
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	9.9	8.7	6.8	5.4	4.3	3.5	2.9	2.5	2.1	1.8	1.6	8	WH White	BC5 Two-piece cast aluminum base cover (for Mistella™ AT535 pole only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	10.6	9.3	7.3	5.8	4.7	3.9	3.3	2.9	2.5	1.6	1.4	8ft		
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	7.4	6.4	4.9	3.8	2.9	2.2	1.8	1.5	1.2	-	-	10	BK Black	BC5 Two-piece cast aluminum base cover (for Mistella™ A35 pole only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	8.2	7.2	5.5	4.2	3.3	2.8	2.3	1.9	1.6	-	-	10ft		
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	5.6	4.8	3.5	2.6	1.8	1.3	-	-	-	-	-	12	BL Semi-Matte Black	BC9 Decorative cast aluminum base cover (for Mistella™ AT64 pole only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	6.4	5.5	4.1	3.1	2.3	1.8	1.4	-	-	-	-	12ft		
AT535 5" to 3 - 1/2" Round Tapered Aluminum Pole	8 - 5/8"	15.2	13.4	10.5	8.4	6.9	5.8	4.9	4.2	3.6	3.2	2.8	14	BZ Bronze	MSTBC13 Decorative Cast aluminium base cover (for Mistella™ MSTA40 pole only)
AT64 6" to 4" Round Tapered Aluminum Pole	9 - 1/2"	22.9	20.3	16.1	13.1	10.9	9.2	7.9	6.8	5.9	5.2	4.5	14ft		
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	4.2	3.5	2.4	1.6	-	-	-	-	-	-	-	16	SV Silver	T35 Supplied with 3/2" diameter tenon, 4 1/2" high (for Mistella™ MSTA40 and AT64 poles only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	5.0	4.2	3.0	2.1	1.4	-	-	-	-	-	-	16ft		
AT535 5" to 3 - 1/2" Round Tapered Aluminum Pole	8 - 5/8"	12.8	11.2	8.7	6.9	5.5	4.6	3.8	3.3	2.8	2.4	2.1	18	SP Specify Premium Color	REC GFCI Receptacle with weather-proof cover (120V only)
AT64 6" to 4" Round Tapered Aluminum Pole	9 - 1/2"	19.5	17.2	13.6	11.0	9.1	7.6	6.5	5.6	4.8	4.2	3.7	18ft		
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	2.7	2.1	1.2	-	-	-	-	-	-	-	-	16	SV Silver	REC2GFCI Receptacle with padlockable in-use cover (120V only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	3.7	3.2	2.0	-	-	-	-	-	-	-	-	16ft		
AT535 5" to 3 - 1/2" Round Tapered Aluminum Pole	8 - 5/8"	10.5	9.1	6.9	5.4	4.3	3.4	2.9	2.4	2.0	1.7	1.5	18	SP Specify Premium Color	REC3USB and Duplex Receptacle with weather-proof cover (120V only)
AT64 6" to 4" Round Tapered Aluminum Pole	9 - 1/2"	16.3	14.3	11.2	9.0	7.4	6.2	5.2	4.4	3.8	3.3	2.9	18ft		
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	2.3	1.7	-	-	-	-	-	-	-	-	-	18	SP Specify Premium Color	REC4USB and Duplex Receptacle with weather-proof padlockable in-use cover (120V only)
AT535 5" to 3 - 1/2" Round Tapered Aluminum Pole	8 - 5/8"	10.7	9.2	7.0	5.4	4.2	3.4	2.8	2.3	2.0	1.7	1.4	18ft		
AT64 6" to 4" Round Tapered Aluminum Pole	9 - 1/2"	13.6	11.8	9.2	7.3	6.0	4.9	4.2	3.5	3.0	2.6	2.2	18	MS	Motion Sensor with Optional Photocell (see page 6)

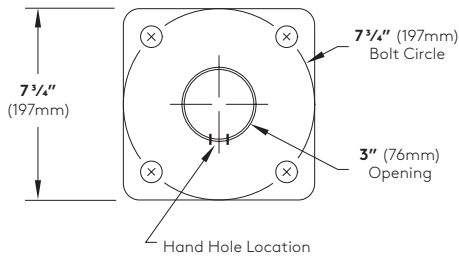
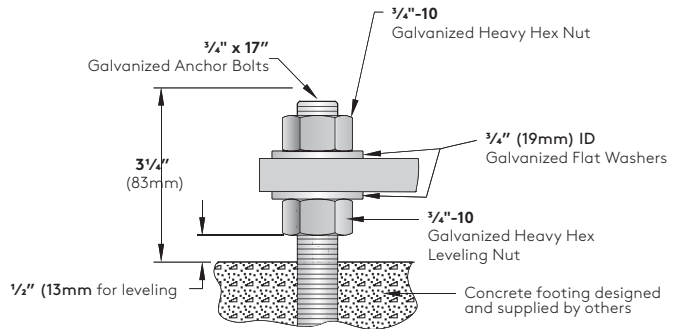
¹ Maximum Basic Wind Speed certified in accordance with AASHTO 2013 (LTS-6)

² Values are nominal 3-s gust wind speeds in accordance with ASCE 7-05 for Allowable Stress Design (ASD) analysis

Bolt Circle for A35

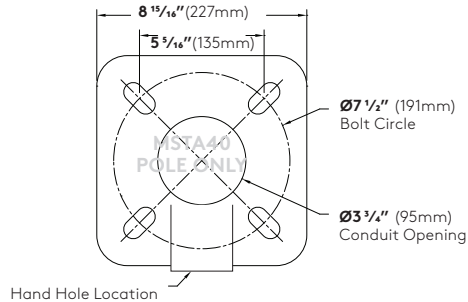
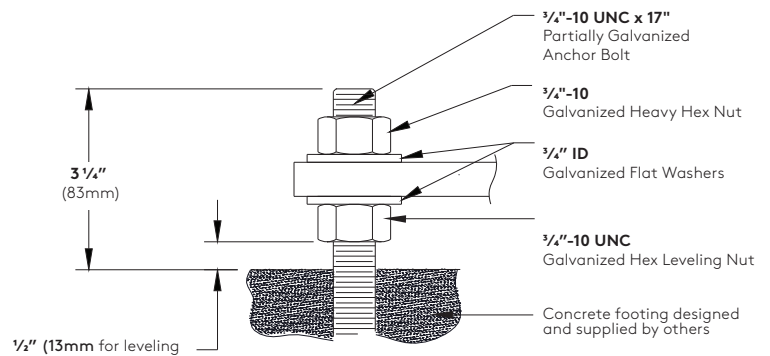
Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

Note: Adequate drainage must be provided in concrete foundation.

**Anchor Bolt Detail for A35****Bolt Circle for MSTA40**

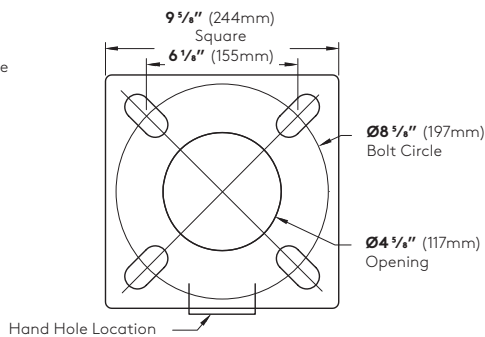
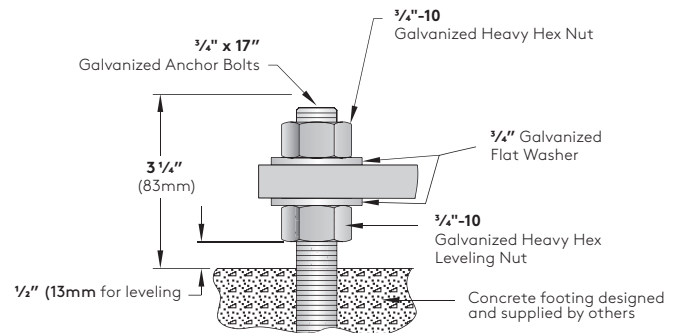
Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

Note: Adequate drainage must be provided in concrete foundation.

**Anchor Bolt Detail for MSTA40****Bolt Circle for AT535**

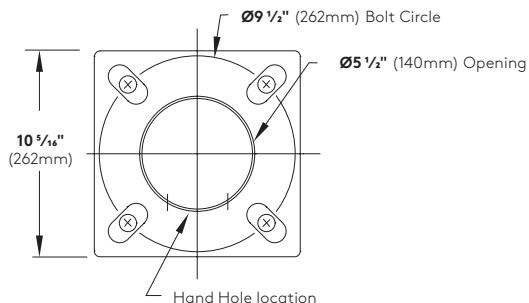
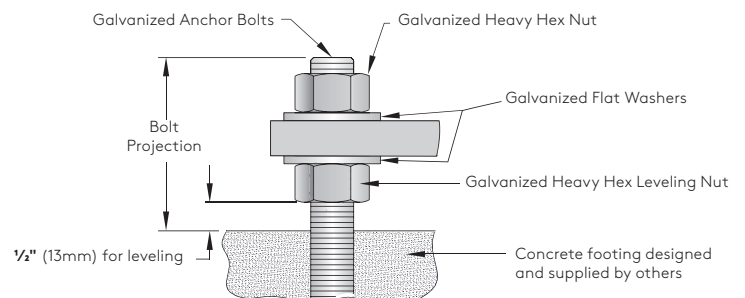
Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

Note: Adequate drainage must be provided in concrete foundation.

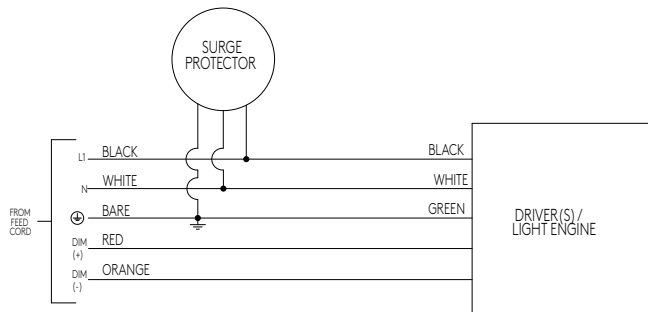
**Anchor Bolt Detail for AT535****Bolt Circle for AT64**

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

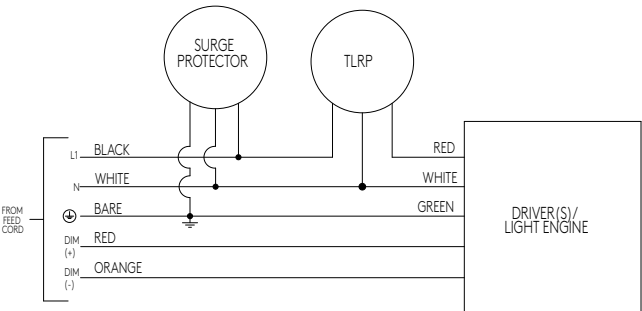
Note: Adequate drainage must be provided in concrete foundation.

**Anchor Bolt Detail for AT64**

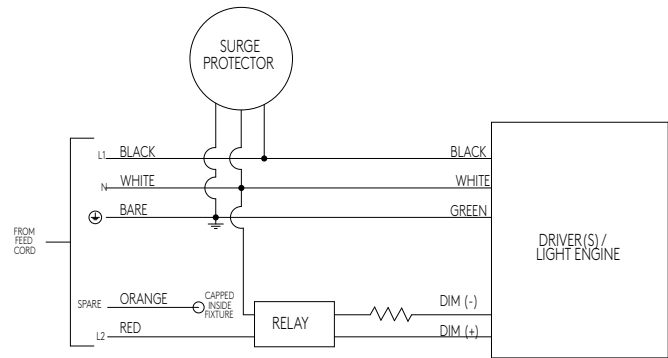
Standard Wiring (120V-480V)*



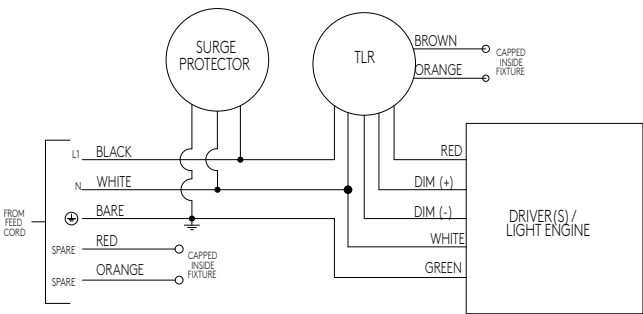
TLRP Wiring (120V/240V/277V)



Hi-Lo Switching Option (HL30/HL50) Wiring 120/240/277V.
When red is energized, light output will be at "Lo" level.



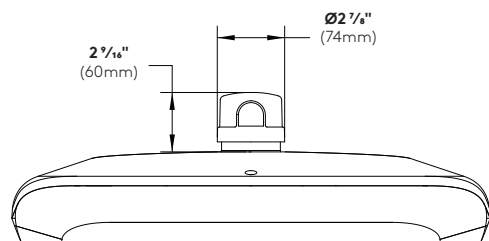
TLR Wiring (120V-480V)*



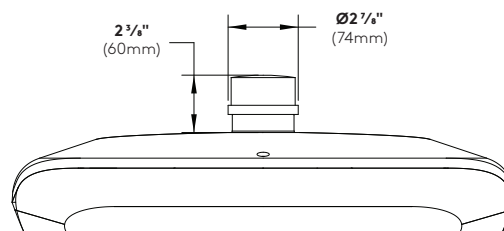
*(347/480V with 5G350 has a transformer - not shown)

Optional Accessories

(TLRP) Twist Lock Receptacle with Photocell



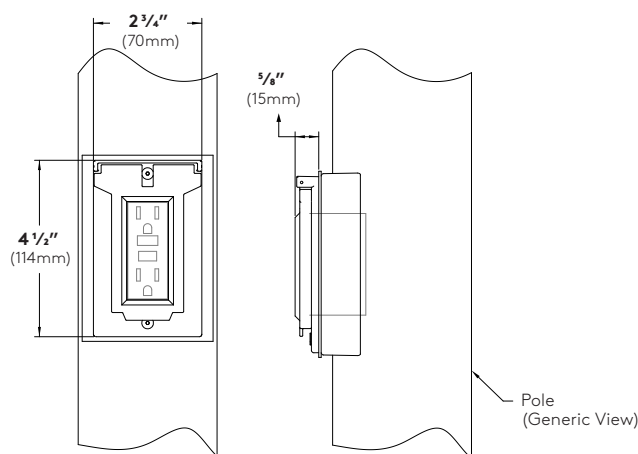
(TLR) 7-Pin Twist Lock Receptacle with Shorting Cap



TLRP = TE Connectivity BF Series (BF-PV) 3-Pin

REC and REC3

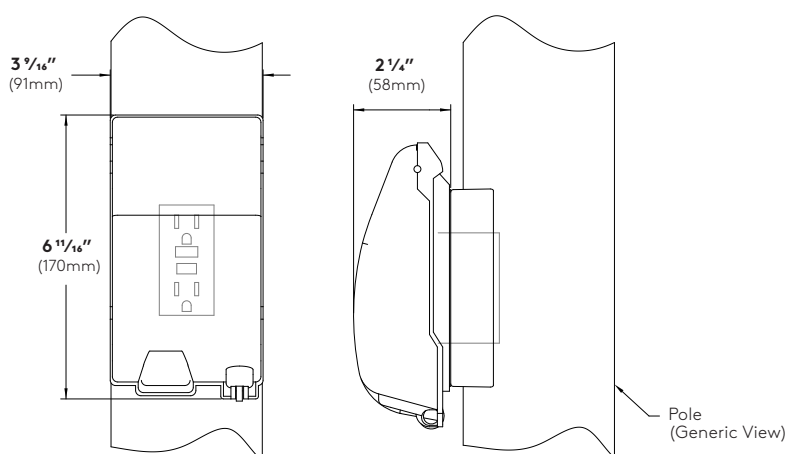
(location for MSTA40 pole at 0° or 180° only)



Cover shown in the closed position

REC2 and REC4

(location for MSTA40 pole at 0° or 180° only)



Cover shown in the closed position

GFCI Receptacle (REC) - 120V 15A GFCI duplex receptacle with weatherproof, self-closing cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel (120V only).

USB & Duplex Receptacle (REC3) (not shown) - 120V 20A duplex receptacle with USB combination ports. (1) type A and (1) type C high power 5A, 5V USB outlets. With weatherproof, self-closing cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.

REC3 does not incorporate GFCI (Ground Fault Circuit Interrupter) protection, and shall be powered by a GFCI protected branch circuit (by others).

GFCI Receptacle (REC2) - 120V 15A GFCI duplex receptacle with weatherproof, self-closing, padlockable in-use cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel (120V only).

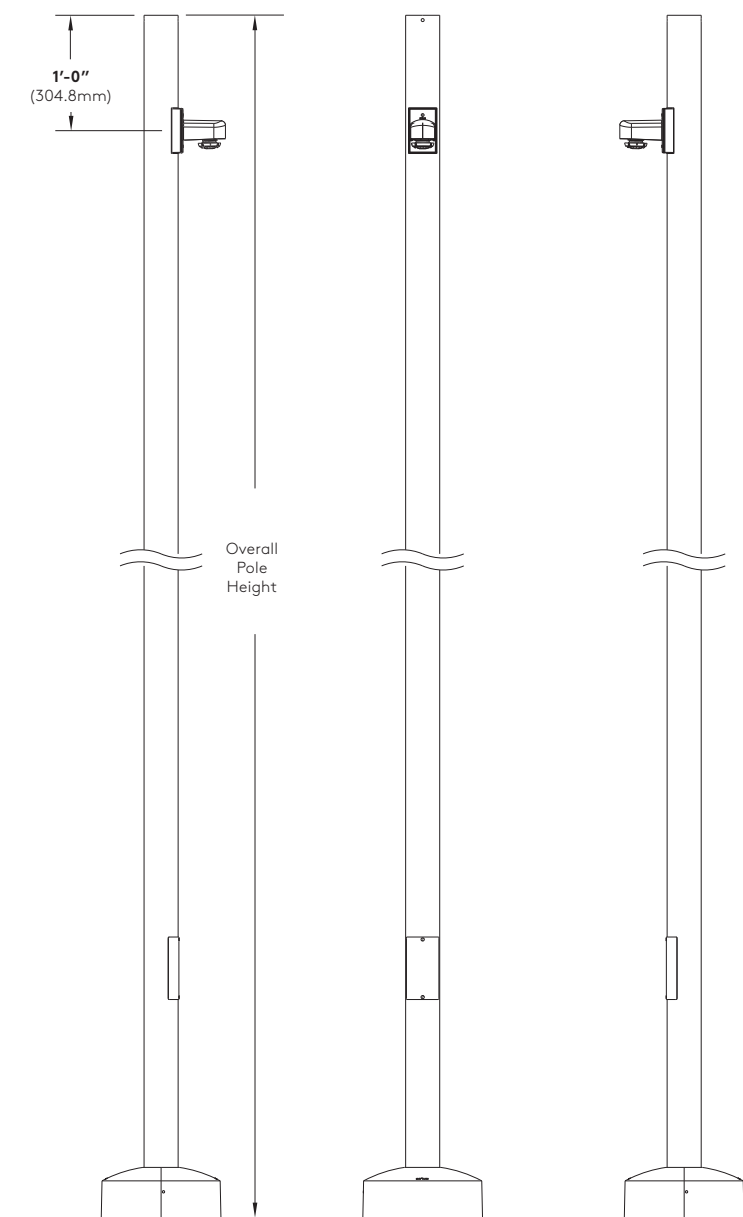
USB & Duplex Receptacle (REC4) (not shown) - 120V 20A duplex receptacle with USB combination ports. (1) type A and (1) type C high power 5A, 5V USB outlets. With weatherproof, self-closing padlockable in-use cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.

REC4 does not incorporate GFCI (Ground Fault Circuit Interrupter) protection, and shall be powered by a GFCI protected branch circuit (by others).

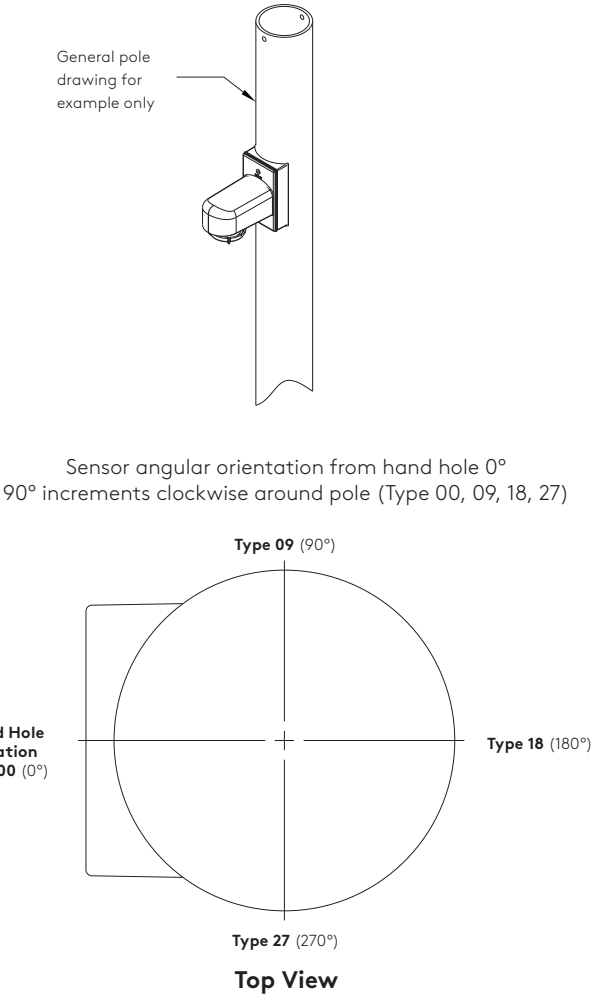
Round Pole Motion Sensor

The Selux outdoor rated sensor incorporates Passive Infrared (PIR) Technology for motion sensing and also includes built-in photocell. Sensor comes pre-installed in cast aluminum housing painted to match pole finish.

Series	Optic (270° coverage)	Hand Hole Orientation	Dim Level	Photocell Feature	Voltage
MS Motion Sensor	L (Low 8-12ft height) M (Medium 13-20ft height)	00 0° Clockwise from Hand Hole	D0 (Off)	Y Yes	UNV (120-277V)
		09 90° Clockwise from Hand Hole	D1 (1V=10%)		347* (347V)
		18 180° Clockwise from Hand Hole	D3 (3V=30%)	N No	480* (480V)
		27* 270° Clockwise from Hand Hole	D5 (5V=50%)		*consult factory for 347V and 480V



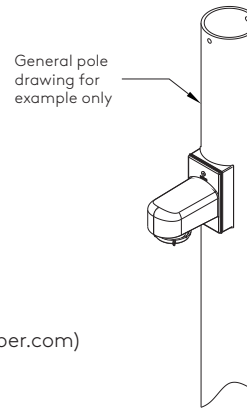
Factory Defaults:
Delay to Dim: 5 minutes
Delay to Off: 1 hour
Sensitivity: Max
Custom Programming: Consult Factory



Motion Sensor Features

- Customize programming using handheld wireless remote control (FSIR-100) sold separately (by others)
- 5 Year Warranty
- 100% Digital PIR Detection, excellent RF Immunity
- 270° coverage pattern
- IP66 Rated for outdoor applications
- Made for LED light source
- Adjustable time delays, max/min dim levels, and ramp rates
- Suitable for Title 24 applications

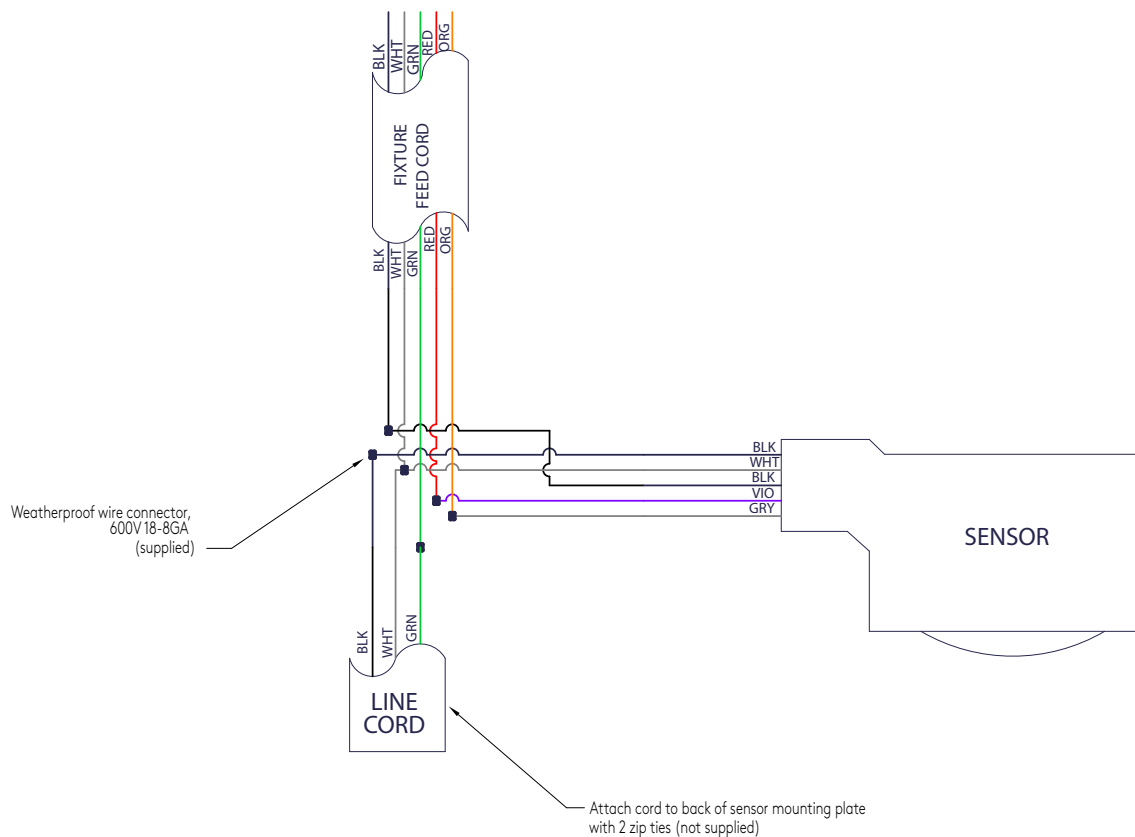
(For coverage details refer to wattstopper FSP-211 spec sheet at www.wattstopper.com)



FSIR-100 (remote)

**Sold Separately
(by others)**

Motion Sensor Option (MS) Wiring (120V-277V)



R1 Optics / 121W LED / 3000K CCT

Catalog #: MST-R1-5G140-30-SV-UNV.

Delivered Lumens: 11636lm

Input Watts: 121W

Efficacy: 96lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 6134 at 48° from vertical.

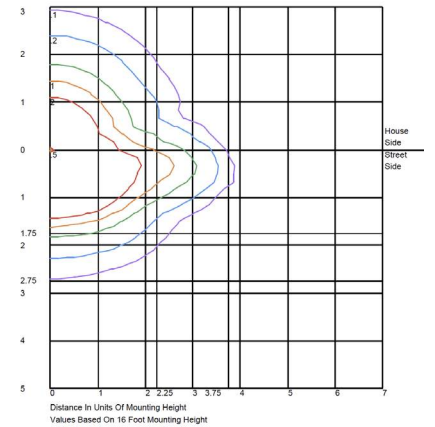
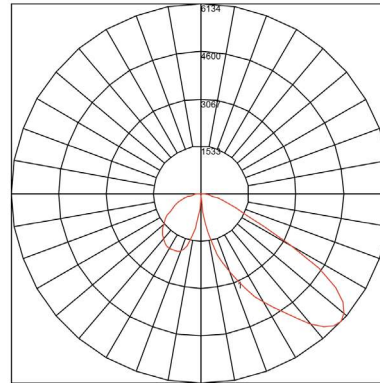
IES classification: Type II

Mounting Height: 16' (4.9m)

BUG Rating: B2-U0-G2

Power Factor: 0.977

Total Harmonic Distortion: 10.5%



R2 Optics / 121W LED / 3000K CCT

Catalog #: MST-R2-5G140-30-SV-UNV

Delivered Lumens: 11860lm

Input Watts: 121W

Efficacy: 98lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 6812 at 67.5° from vertical.

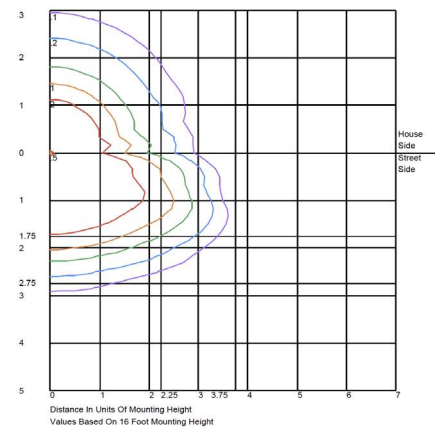
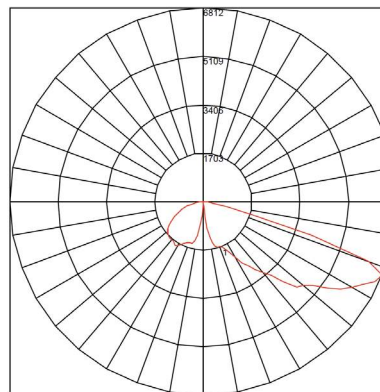
IES classification: Type III

Mounting Height: 16' (4.9m)

BUG Rating: B2-U0-G2

Power Factor: 0.999

Total Harmonic Distortion: 10.5%



R3 Optics / 121W LED / 3000K CCT

Catalog #: MST-R3-5G140-30-SV-UNV

Delivered Lumens: 11798lm

Input Watts: 121W

Efficacy: 98lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 7530 at 65° from vertical.

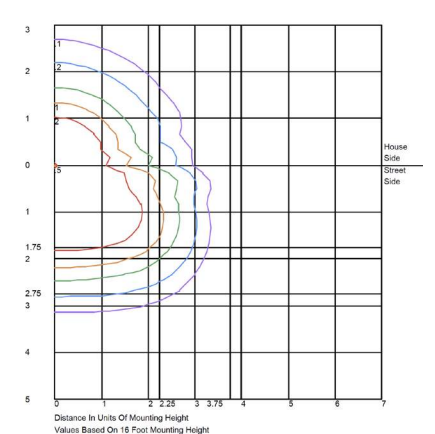
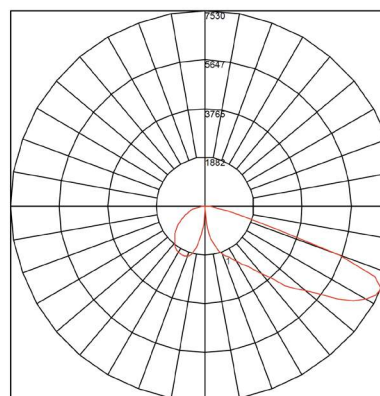
IES classification: Type III

Mounting Height: 16' (4.9m)

BUG Rating: B2-U0-G2

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



R3W Optics / 121W LED / 3000K CCT

Catalog #: MST-R3W-5G140-30-SV-UNV

Delivered Lumens: 11919lm

Input Watts: 121W

Efficacy: 99lm/W

CCT: 3000K

CRI (Ra): >80

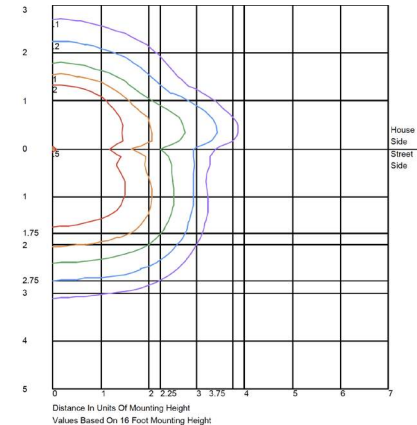
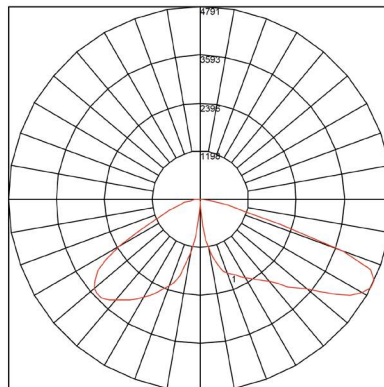
Maximum candela of 4791 at 62.5° from vertical.

IES classification: Type VS

Mounting Height: 16' (4.9m)

BUG Rating: B3-U0-G1

Power Factor: 0.990



R4 Optics / 121W LED / 3000K CCT

Catalog #: MST-R4-1-5G140-30-SV-UNV

Delivered Lumens: 11829lm

Input Watts: 121W

Efficacy: 98lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 8417 at 67.5° from vertical.

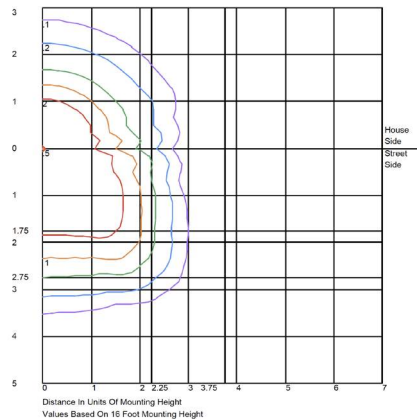
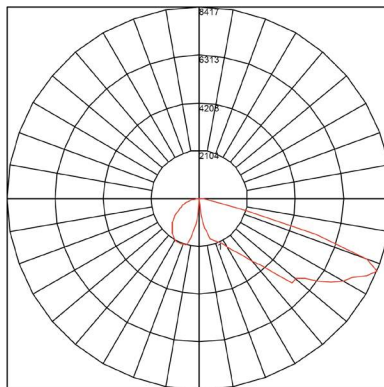
IES classification: Type III

Mounting Height: 16' (4.9m)

BUG Rating: B2-U0-G2

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



R5R Optics / 121W LED / 3000K CCT

Catalog #: MST-R5R-5G140-30-SV-UNV

Delivered Lumens: 12177lm

Input Watts: 121W

Efficacy: 101lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 4642 at 65° from vertical.

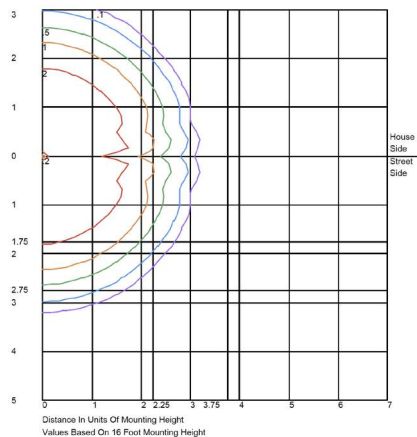
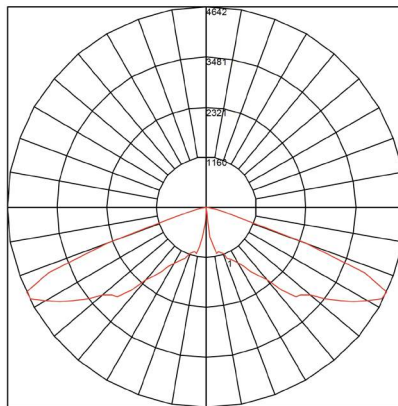
IES classification: Type V

Mounting Height: 16' (4.9m)

BUG Rating: B3-U0-G1

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



R5S Optics / 121W LED / 3000K CCT

Catalog #: MST-R5S-5G140-30-SV-UNV

Delivered Lumens: 12180lm

Input Watts: 121W

Efficacy: 101lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 5163 at 67.5° from vertical.

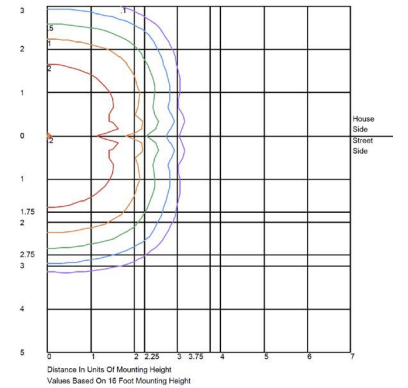
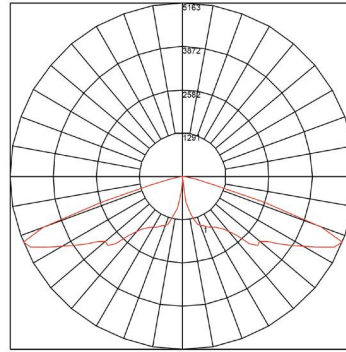
IES classification: Type VS

Mounting Height: 16' (4.9m)

BUG Rating: B3-U0-G2

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



R5Q Optics / 121W LED / 3000K CCT

Catalog #: MST-R5Q-5G140-30-SV-UNV

Delivered Lumens: 11801lm

Input Watts: 121W

Efficacy: 98lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 3722 at 60° from vertical.

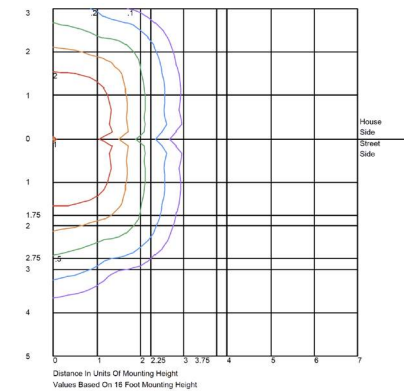
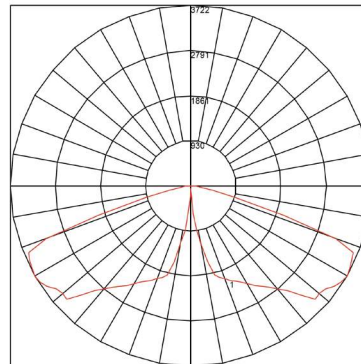
IES classification: Type VS

Mounting Height: 16' (4.9m)

BUG Rating: B3-U0-G3

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



DG Optics / 129W LED / 3000K CCT

Catalog #: MST-DG-X-MP140-30K-SV-UNV

Delivered Lumens: 9544lm

Input Watts: 129W

Efficacy: 74lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 3516 at 17.5° from vertical.

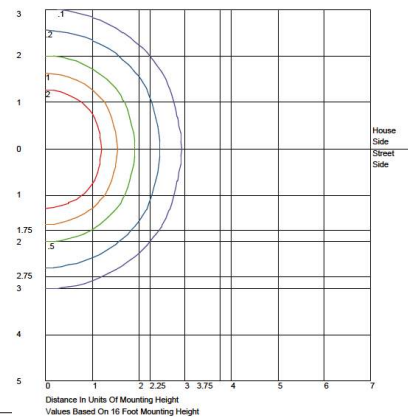
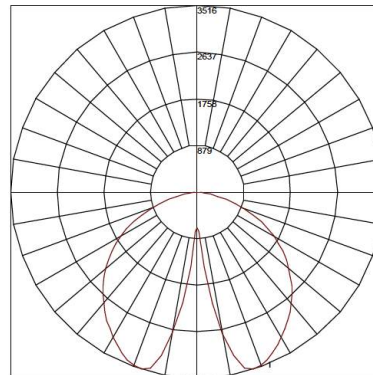
IES classification: Type VS

Mounting Height: 16' (4.9m)

BUG Rating: B3-U0-G1

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



DB1 Optics / 129W LED / 3000K CCT

Catalog #: MST-DB1-X-MP140-30K-SV-UNV

Delivered Lumens: 8408lm

Input Watts: 129W

Efficacy: 65lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 2509 at 22.5° from vertical.

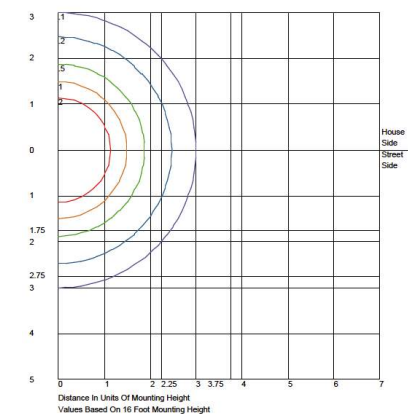
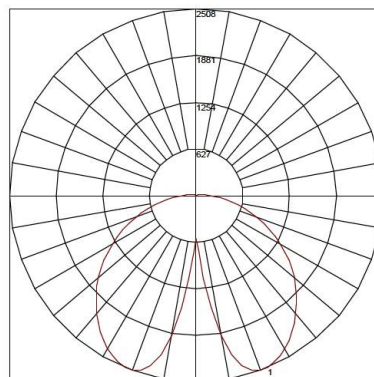
IES classification: Type VS

Mounting Height: 16' (4.9m)

BUG Rating: B2-U0-G1

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



Mistella™ CCT Multiplier	
2700K	0.926
3000K	1.000
4000K	1.063

5Gxxx TM-21 Matrix

TM-21 Lifetime Calculation					
Light Engine	Ambient Temp (°C)	Lumen Maintenance (% at hours)			Reported L ₇₀
		25K	50K	70K	
5G350	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G530	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G700	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G900	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G105	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.1%	98.5%	98.0%	L ₇₀ (12K) > 73,000 hours
5G140	25°C	99.5%	99.2%	99.0%	L ₇₀ (12K) > 73,000 hours
	40°C	98.7%	97.7%	96.8%	L ₇₀ (12K) > 73,000 hours

1. Calculated in accordance with IESNA TM-21-11, projected values are within 6 times (6x) the IESNA LM-80-08 test duration
2. Thermal measurements based on order code: MST-DB1-X-30-XX-BL-UNV

MPxxx TM-21 Matrix

TM-21 Lifetime Calculation						
Ligh Engine	Ambient Temp (°C)	Lumen Maintenance (% at hours)				Reported L ₇₀
		25K	50K	75K	90K	
MP350	25°C	97.5%	95.0%	92.5%	91.0%	L ₇₀ (15K) > 90,000 hours
	40°C	96.4%	93.2%	90.0%	88.2%	L ₇₀ (15K) > 90,000 hours
MP530	25°C	97.5%	95.0%	92.5%	91.0%	L ₇₀ (15K) > 90,000 hours
	40°C	95.8%	91.9%	88.2%	86.1%	L ₇₀ (15K) > 90,000 hours
MP700	25°C	97.5%	95.0%	92.5%	91.0%	L ₇₀ (15K) > 90,000 hours
	40°C	95.1%	90.7%	86.5%	84.0%	L ₇₀ (15K) > 90,000 hours
MP900	25°C	96.9%	94.0%	91.3%	89.7%	L ₇₀ (15K) > 90,000 hours
	40°C	93.7%	88.3%	83.2%	80.3%	L ₇₀ (15K) > 90,000 hours
MP105	25°C	96.4%	93.0%	89.8%	88.0%	L ₇₀ (15K) > 90,000 hours
	40°C	92.8%	85.6%	79.0%	73.2%	L ₇₀ (15K) > 90,000 hours
MP140	25°C	95.1%	90.6%	86.3%	83.8%	L ₇₀ (15K) > 90,000 hours
	40°C	91.8%	83.7%	76.4%	72.3%	L ₇₀ (15K) > 90,000 hours

1. Calculated in accordance with IESNA TM-21-11, projected values are within 6 times (6x) the IESNA LM-80-08 test duration
2. Thermal measurements based on order code: MST-DB1-X-MPxxx-30-XX-BL-UNV

Date: _____ Customer: _____

Project: _____

Type: _____ Qty: _____

selux

LDC
University Place
Mall

FXM3A

Proj.# 180.02

Mistella™ LED



Order Code: **MST** - - - - -

Pole Order Code:

Series Height Finish Options * See pages 4 and 6

MST	Series	MST Mistella™ LED										
	Optics	R1 Type I	R2 Type II	R3 Type III	R3W Type III (Wide)	R4 Type IV	R5R Type V (Round)	R5S Type V (Square)	R5Q Type V (Rectangular)	DG Diffuse Flat Glass	DB1¹ Diffuse Sagged Bowl	¹ DB1 option not Dark Sky
	Mounting	1 Single	2 Double	W Wall								
	Comfort Light Engine (DB1 & DG)	MP350 nominal 33W/2965lm	MP530 nominal 48W/4443lm	MP700 nominal 61W/5613lm	MP900 nominal 79W/6951lm	MP105 nominal 92W/7796lm	MP140 nominal 129W/9544lm	*Based on 3000K CCT and DG optic				
	OR Technical Light Engine (R1-R5Q)	5G350 nominal 33W/3745lm	5G530 nominal 48W/5417lm	5G700 nominal 61W/6843lm	5G900 nominal 79W/8475lm	5G105 nominal 92W/9505lm	5G140² nominal 121W/11636lm	² For maximum ambient temperatures up to 40°C only *Based on 3000K CCT and R1 optics				
	CCT	27³ 2700K	30³ 3000K	40 4000K	³ 2700K and 3000K are IDA Approved *For other CCT please consult factory							
	Power Supply Wire Length	10 10'	12 12'	14 14'	16 16'	18 18'	20 20'	XX⁴ XX'	⁴ Add length of arm and height of pole to determine power supply wire length			
	Finish	WH White	BK Black	BL Semi-Matte Black	BZ Bronze	SV Silver	SP Specify Premium Color					
	Voltage	UNV 120V-277V	120⁵ 120V	240⁵ 240V	277⁵ 277V	347⁶ 347V	480⁶ 480V	⁵ Specify for HL option ⁶ Not available with 5G140 or MP140 light engines				
	Options	DM⁸,¹⁰ Dimming (0-10V)	HS⁷ House Side Shield (180°)	HL30⁸,⁹ Hi-Lo Switching Low Output 30%	HL50⁸,⁹ Hi-Lo Switching Low Output 50%	TLR⁸,⁹,¹⁰ Twist Lock Receptacle 7-Pin with Shorting Cap	TLRP Twist Lock Receptacle 3-Pin with Photocell	TLRLL⁸,⁹,¹⁰ Twist Lock Receptacle 7-Pin with Lutron Limelight Module	⁷ Type I, II, III, and IV only ⁸ DM, HLXX, or TLR only. Cannot be combined. ⁹ 120V, 240V, or 277V only ¹⁰ Not available with HL or DM ¹¹ Cannot be combined with DG or DB1			
		GL¹¹ Clear Flat Glass Lens	ROL Rotate optics left	ROR Rotate optics right	Pole Motion Sensor with optional photocell See page 8 for order code							



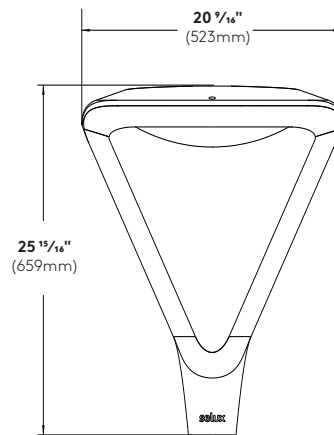
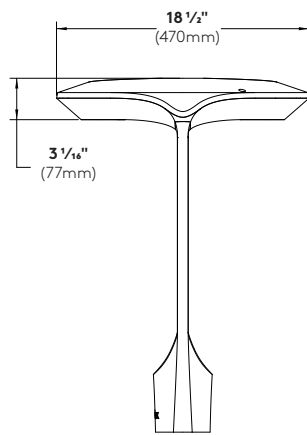
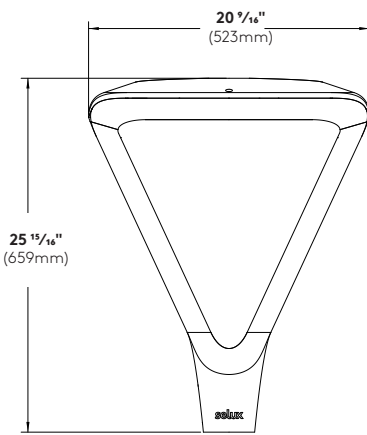
IP65



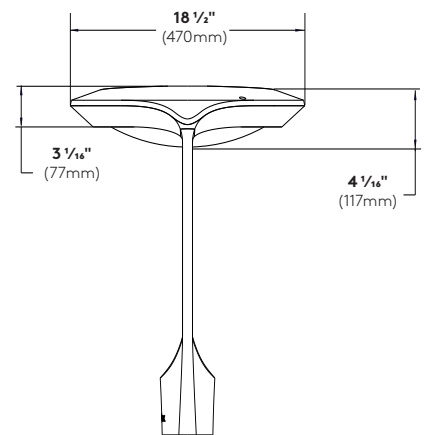
UNION MADE



Gen5/DG Optic



DB1 Optic



Specifications

Luminaire Cover - Cast aluminum cover made from low copper aluminum.

Gasketing - Continuous gasket provides weatherproofing, dust, and insect control at all fixture connections.

LED Array - LEDs mounted to PC boards and attached to aluminum heat sink for maximum LED performance and life. 3-step MacAdams ellipse for 2700K, 3000K and 4000K. CRI minimum 80. Complete light engine can be removed easily for future upgrade.

LED Optics - Technical Optics (R1, R2, R3, R3W, R4, R5R, R5S, and R5Q) use Selux signature light pattern acrylic lens holder to secure proprietary silicone optics. Internal micro house side shield available for distribution types I, II, III & IV with or without clear glass option. DG and DB1 optics use a mid-power LED board. DG consists of recessed diffuse puck with flat clear glass. DB1 uses sagged diffuse polycarbonate bowl.

LED Driver - LEDs are driven by RoHS compliant constant current programmable LED driver. Driver includes 0-10V dimming to 10%, meets the requirements of IP66. Driver assembly located inside the head.

Arm/Arms - Cast aluminum arms support upper housing and optic assembly with built in pole fitter.

Pole Fitter - Self-leveling, die cast low-copper aluminum, fitter base secured to pole with stainless steel allen head set screws. Fitter for 3.5" (90mm) O.D. poles or poles with 3.5" tenon.

Surge Protector - Designed to protect luminaire from electrical surge (20kA).

Power Supply Wire - Pre-installed at factory. Please specify power supply wire length in accordance to height of the pole. Add two (2) feet to power supply wire length for single mount and four (4) feet for double arm mount.

Hi-Lo Switching Option - Please see page 6 for details.

Exterior Luminaire Finish - Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultraviolet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI. Standard exterior colors are White (WH), Black (BK), Semi-Matte Black (BL), Bronze (BZ), and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide.

5 Year Limited LED Luminaire Warranty -

Selux offers a 5 Year Limited Warranty to the original purchaser that the Mistella™ LED luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the LED driver and LED array when installed and operated according to Selux instructions. For details, see "Selux Terms and Condition of Sale."

Listings and Ratings: Luminaire and LED tested to IP65 and IESNA LM-79-08 standards. LED tested to LM-80 standards. Luminaire and LED tested at 25°C ambient temperature.

Luminaire suitable for ambient temperatures of 45°C. Minimum operating temperature of luminaire at -40°C (-40°F).

NRTL Listed (i.e. UL, CSA)

Visit selux.us for our LED End of Life recycling policy.

For Buy American compliance on poles, please consult the factory.

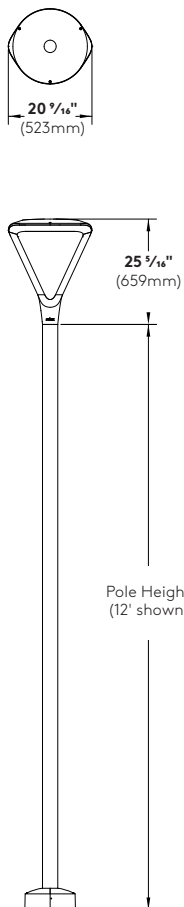
Mounting

Single (1)

Cast aluminum fitter base secured to pole with two stainless steel Allen head set screws.

EPA = 1.2ft² (0.11m²)

Weight = 18lbs. (8.2kg)

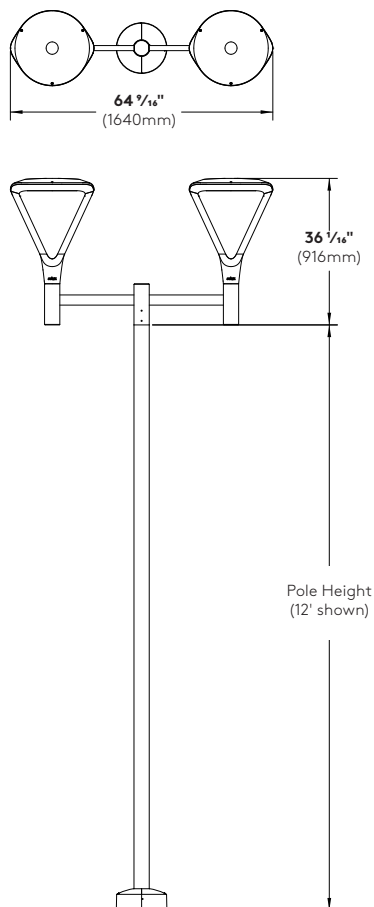


Double Arm Mount (2)

Structural aluminum double luminaire mounting arm secured to pole with six stainless steel Allen head set screws.

EPA = 3.4ft² (0.32m²)

Weight = 49lbs. (22.2kg)

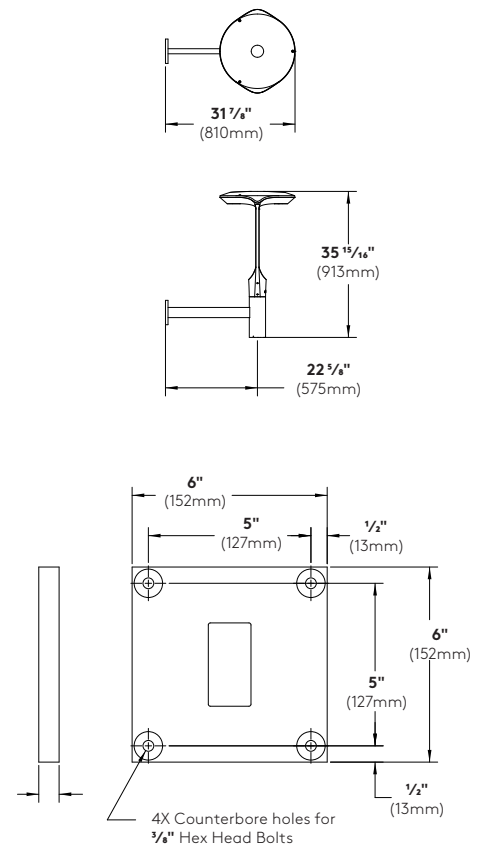


Wall (W)

Structural aluminum single luminaire mounting arm. Secured to wall with four 3/8" diameter threaded fasteners (by others).

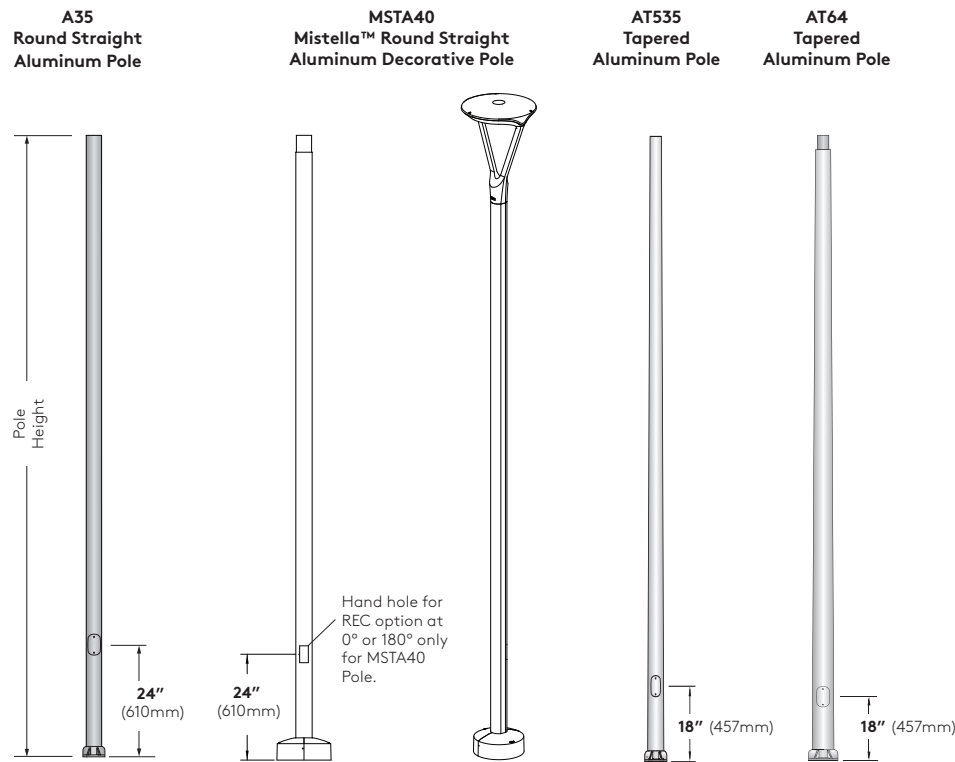
EPA = 1.6ft² (0.15m²)

Weight = 26lbs. (11.8kg)



Pole Information

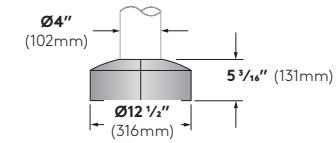
Refer to pole specification sheets for construction details, anchorage information and additional options.



Optional Base Covers for Poles

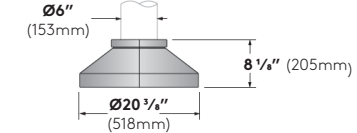
MSTBC13 Optional Base Cover (MSTA40)

Die cast aluminum, two-piece field installable base cover.



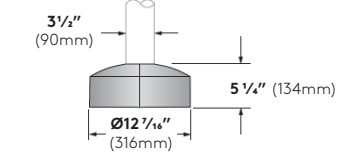
BC9 Optional Base Cover (AT64)

Die cast aluminum, two-piece field installable base cover.



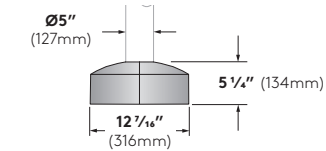
BC5 Standard Base Cover (AT35)

Die cast aluminum, two-piece field installable base cover.



BC3 Optional Base Cover (AT535)

Die cast aluminum, two-piece field installable base cover.



Pole Data Chart

Pole Series	Bolt Circle	EPA Information (ft ²)											Height	Finish	Options
		85 mph	90 mph	100 mph	110 mph	120 mph	130 mph	140 mph	150 mph	160 mph	170 mph	180 mph			
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	9.9	8.7	6.8	5.4	4.3	3.5	2.9	2.5	2.1	1.8	1.6	8	WH White	BC5 Two-piece cast aluminum base cover (for Mistella™ AT535 pole only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	10.6	9.3	7.3	5.8	4.7	3.9	3.3	2.9	2.5	1.6	1.4	8ft		
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	7.4	6.4	4.9	3.8	2.9	2.2	1.8	1.5	1.2	-	-	10	BK Black	BC5 Two-piece cast aluminum base cover (for Mistella™ A35 pole only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	8.2	7.2	5.5	4.2	3.3	2.8	2.3	1.9	1.6	-	-	10ft		
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	5.6	4.8	3.5	2.6	1.8	1.3	-	-	-	-	-	12	BL Semi-Matte Black	BC9 Decorative cast aluminum base cover (for Mistella™ AT64 pole only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	6.4	5.5	4.1	3.1	2.3	1.8	1.4	-	-	-	-	12ft		
AT535 5" to 3 - 1/2" Round Tapered Aluminum Pole	8 - 5/8"	15.2	13.4	10.5	8.4	6.9	5.8	4.9	4.2	3.6	3.2	2.8	14	BZ Bronze	MSTBC13 Decorative Cast aluminium base cover (for Mistella™ MSTA40 pole only)
AT64 6" to 4" Round Tapered Aluminum Pole	9 - 1/2"	22.9	20.3	16.1	13.1	10.9	9.2	7.9	6.8	5.9	5.2	4.5	14ft		
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	4.2	3.5	2.4	1.6	-	-	-	-	-	-	-	16	SV Silver	T35 Supplied with 3/2" diameter tenon, 4 1/2" high (for Mistella™ MSTA40 and AT64 poles only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	5.0	4.2	3.0	2.1	1.4	-	-	-	-	-	-	16ft		
AT535 5" to 3 - 1/2" Round Tapered Aluminum Pole	8 - 5/8"	12.8	11.2	8.7	6.9	5.5	4.6	3.8	3.3	2.8	2.4	2.1	18	SP Specify Premium Color	REC GFCl Receptacle with weather-proof cover (120V only)
AT64 6" to 4" Round Tapered Aluminum Pole	9 - 1/2"	19.5	17.2	13.6	11.0	9.1	7.6	6.5	5.6	4.8	4.2	3.7	18ft		
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	2.7	2.1	1.2	-	-	-	-	-	-	-	-	16	SV Silver	REC2GFCl Receptacle with padlockable in-use cover (120V only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	3.7	3.2	2.0	-	-	-	-	-	-	-	-	16ft		
AT535 5" to 3 - 1/2" Round Tapered Aluminum Pole	8 - 5/8"	10.5	9.1	6.9	5.4	4.3	3.4	2.9	2.4	2.0	1.7	1.5	18	SP Specify Premium Color	REC3USB and Duplex Receptacle with weather-proof cover (120V only)
AT64 6" to 4" Round Tapered Aluminum Pole	9 - 1/2"	16.3	14.3	11.2	9.0	7.4	6.2	5.2	4.4	3.8	3.3	2.9	18ft		
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	2.3	1.7	-	-	-	-	-	-	-	-	-	18	SP Specify Premium Color	REC4USB and Duplex Receptacle with weather-proof padlockable in-use cover (120V only)
AT535 5" to 3 - 1/2" Round Tapered Aluminum Pole	8 - 5/8"	10.7	9.2	7.0	5.4	4.2	3.4	2.8	2.3	2.0	1.7	1.4	18ft		
AT64 6" to 4" Round Tapered Aluminum Pole	9 - 1/2"	13.6	11.8	9.2	7.3	6.0	4.9	4.2	3.5	3.0	2.6	2.2	18ft	MS	Motion Sensor with Optional Photocell (see page 6)

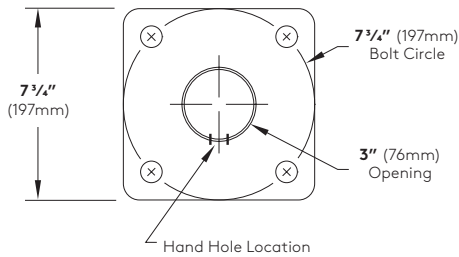
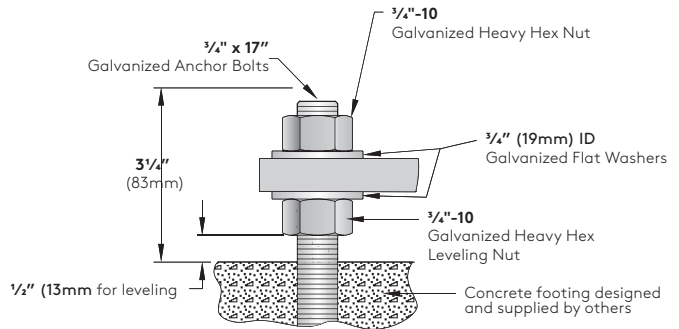
¹ Maximum Basic Wind Speed certified in accordance with AASHTO 2013 (LTS-6)

² Values are nominal 3-s gust wind speeds in accordance with ASCE 7-05 for Allowable Stress Design (ASD) analysis

Bolt Circle for A35

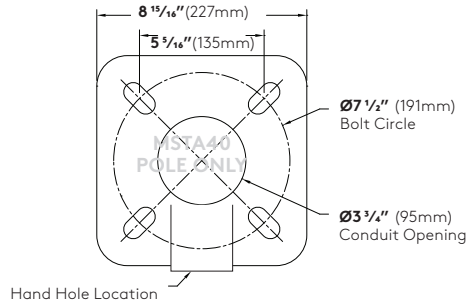
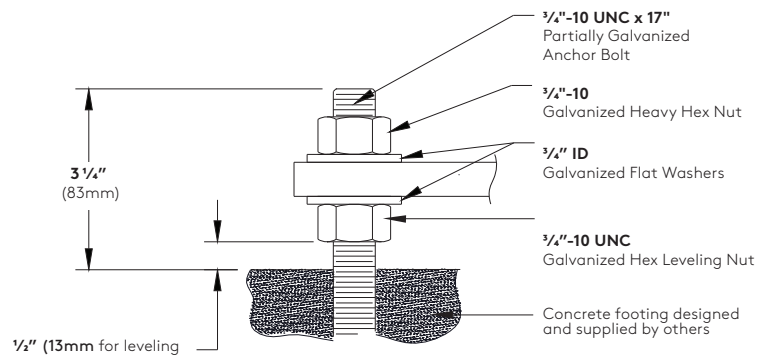
Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

Note: Adequate drainage must be provided in concrete foundation.

**Anchor Bolt Detail for A35****Bolt Circle for MSTA40**

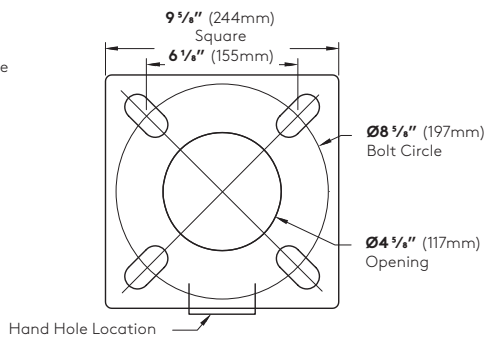
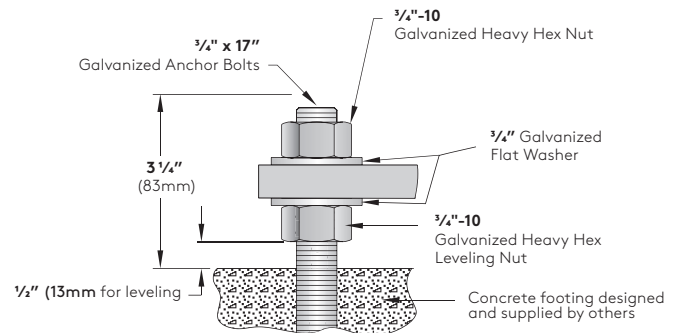
Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

Note: Adequate drainage must be provided in concrete foundation.

**Anchor Bolt Detail for MSTA40****Bolt Circle for AT535**

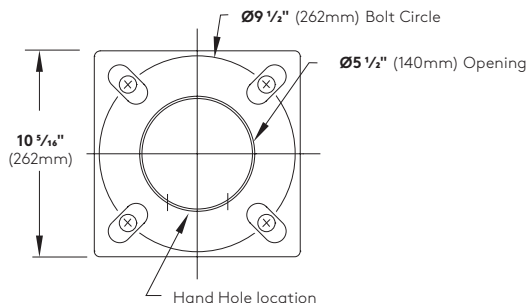
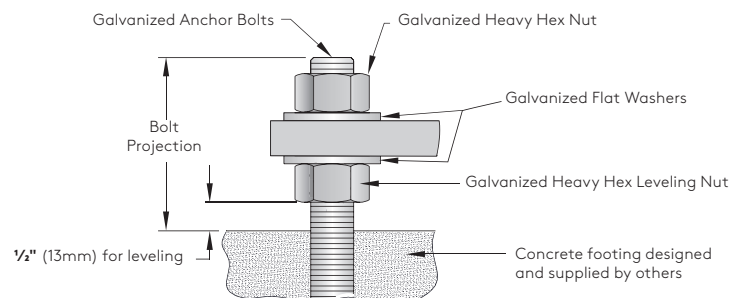
Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

Note: Adequate drainage must be provided in concrete foundation.

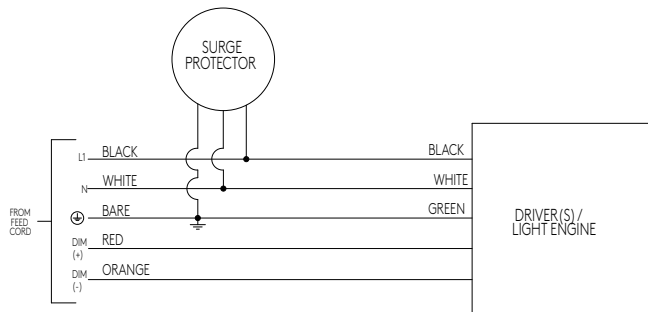
**Anchor Bolt Detail for AT535****Bolt Circle for AT64**

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

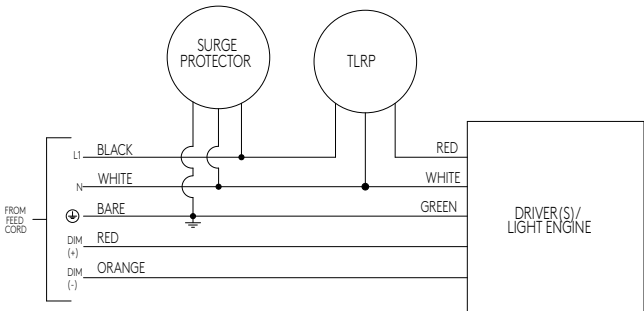
Note: Adequate drainage must be provided in concrete foundation.

**Anchor Bolt Detail for AT64**

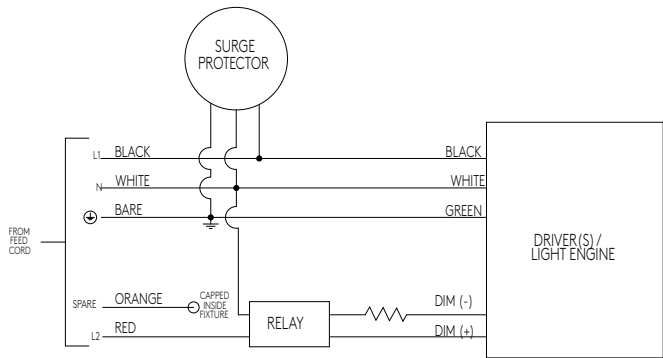
Standard Wiring (120V-480V)*



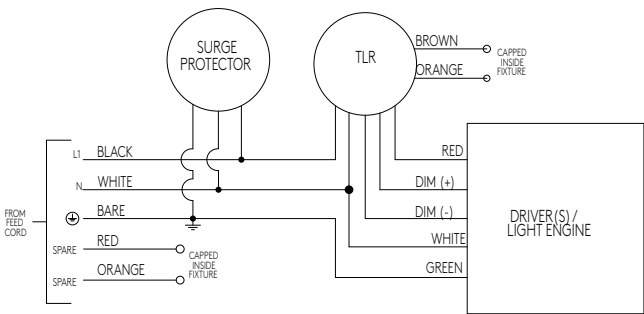
TLRP Wiring (120V/240V/277V)



Hi-Lo Switching Option (HL30/HL50) Wiring 120/240/277V.
When red is energized, light output will be at "Lo" level.



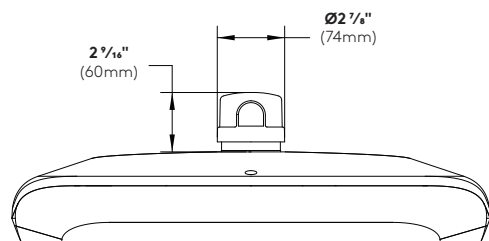
TLR Wiring (120V-480V)*



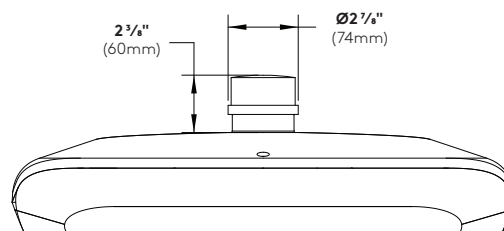
*(347/480V with 5G350 has a transformer - not shown)

Optional Accessories

(TLRP) Twist Lock Receptacle with Photocell



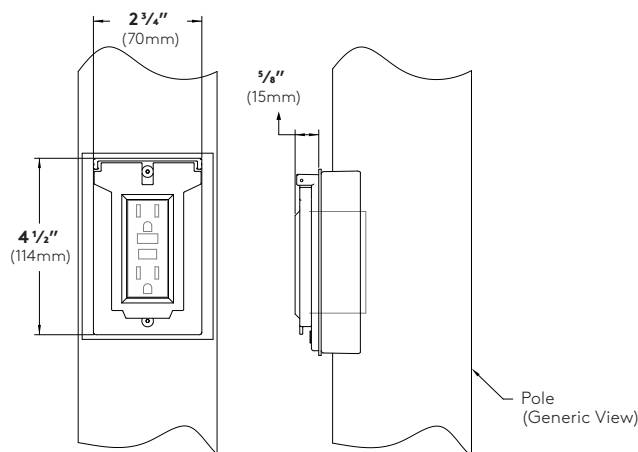
(TLR) 7-Pin Twist Lock Receptacle with Shorting Cap



TLRP = TE Connectivity BF Series (BF-PV) 3-Pin

REC and REC3

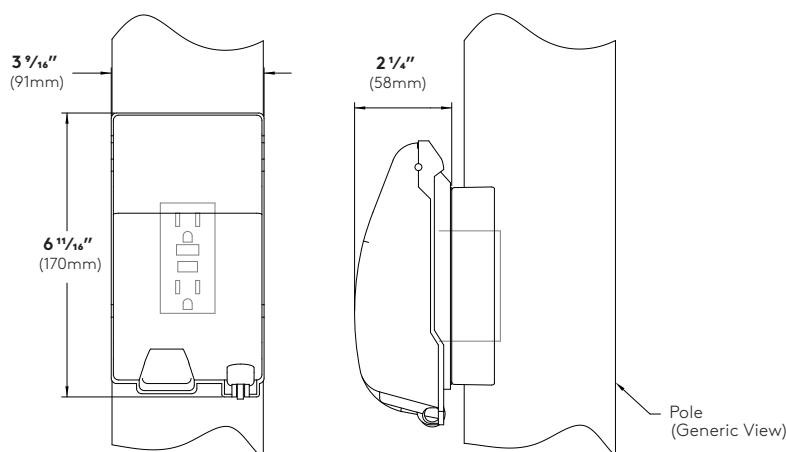
(location for MSTA40 pole at 0° or 180° only)



Cover shown in the closed position

REC2 and REC4

(location for MSTA40 pole at 0° or 180° only)



Cover shown in the closed position

GFCI Receptacle (REC) - 120V 15A GFCI duplex receptacle with weatherproof, self-closing cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel (120V only).

USB & Duplex Receptacle (REC3) (not shown) - 120V 20A duplex receptacle with USB combination ports. (1) type A and (1) type C high power 5A, 5V USB outlets. With weatherproof, self-closing cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.

REC3 does not incorporate GFCI (Ground Fault Circuit Interrupter) protection, and shall be powered by a GFCI protected branch circuit (by others).

GFCI Receptacle (REC2) - 120V 15A GFCI duplex receptacle with weatherproof, self-closing, padlockable in-use cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel (120V only).

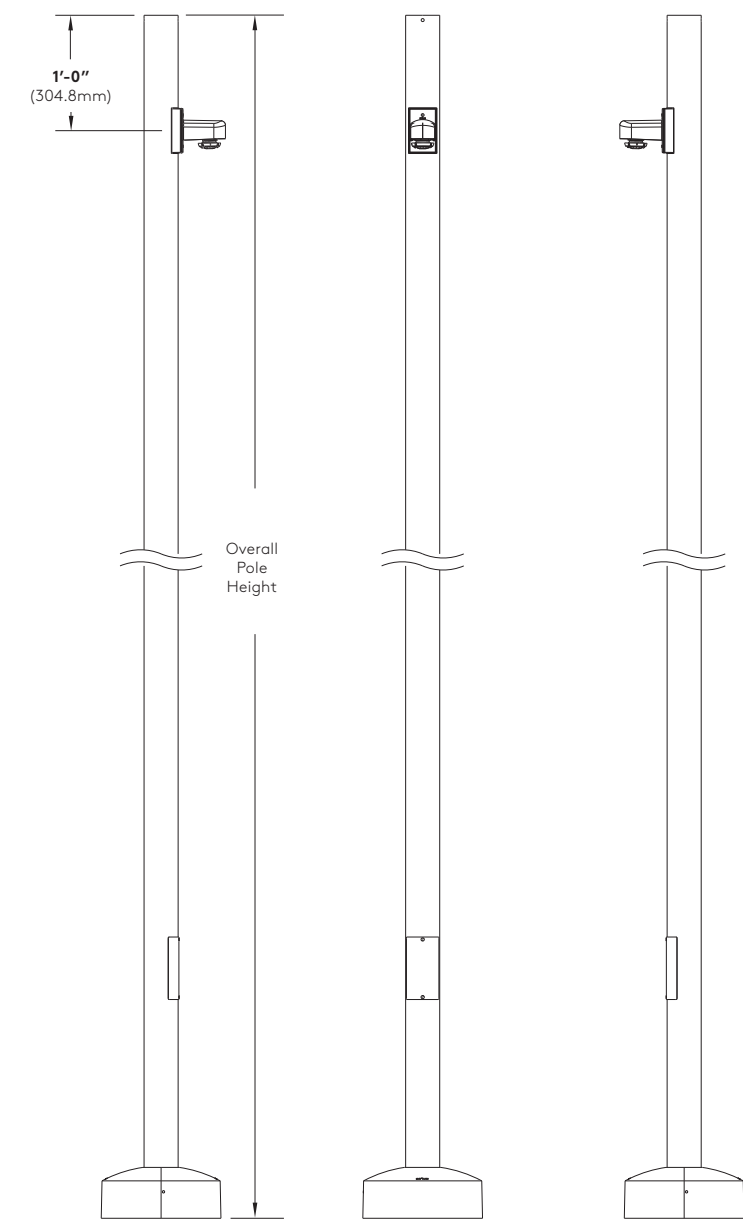
USB & Duplex Receptacle (REC4) (not shown) - 120V 20A duplex receptacle with USB combination ports. (1) type A and (1) type C high power 5A, 5V USB outlets. With weatherproof, self-closing padlockable in-use cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.

REC4 does not incorporate GFCI (Ground Fault Circuit Interrupter) protection, and shall be powered by a GFCI protected branch circuit (by others).

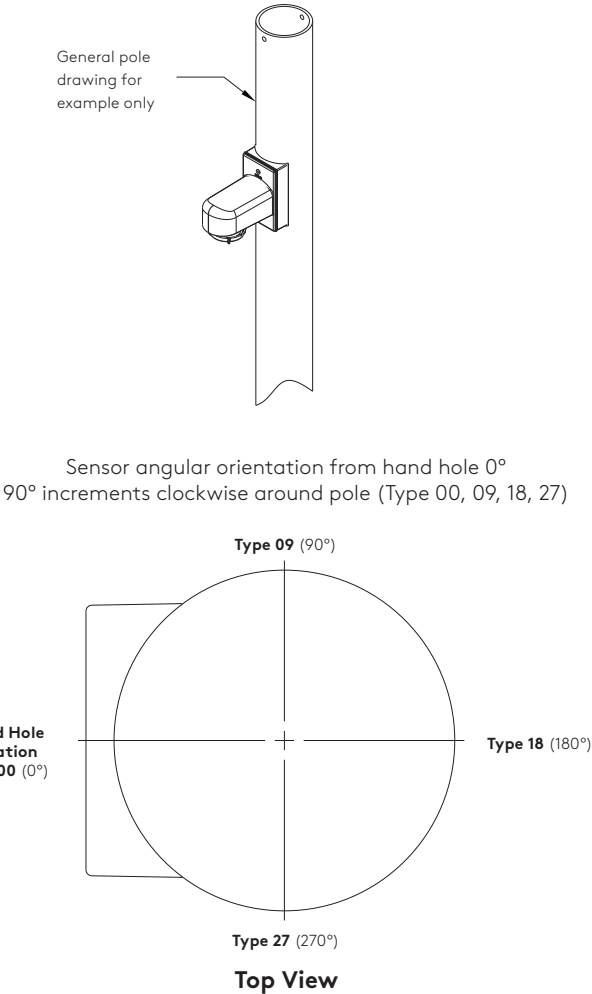
Round Pole Motion Sensor

The Selux outdoor rated sensor incorporates Passive Infrared (PIR) Technology for motion sensing and also includes built-in photocell. Sensor comes pre-installed in cast aluminum housing painted to match pole finish.

Series	Optic (270° coverage)	Hand Hole Orientation	Dim Level	Photocell Feature	Voltage
MS Motion Sensor	L (Low 8-12ft height) M (Medium 13-20ft height)	00 0° Clockwise from Hand Hole	D0 (Off)	Y Yes	UNV (120-277V)
		09 90° Clockwise from Hand Hole	D1 (1V=10%)		347* (347V)
		18 180° Clockwise from Hand Hole	D3 (3V=30%)	N No	480* (480V)
		27* 270° Clockwise from Hand Hole	D5 (5V=50%)		*consult factory for 347V and 480V



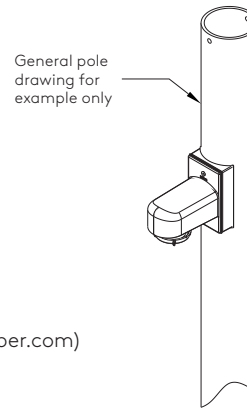
Factory Defaults:
Delay to Dim: 5 minutes
Delay to Off: 1 hour
Sensitivity: Max
Custom Programming: Consult Factory



Motion Sensor Features

- Customize programming using handheld wireless remote control (FSIR-100) sold separately (by others)
- 5 Year Warranty
- 100% Digital PIR Detection, excellent RF Immunity
- 270° coverage pattern
- IP66 Rated for outdoor applications
- Made for LED light source
- Adjustable time delays, max/min dim levels, and ramp rates
- Suitable for Title 24 applications

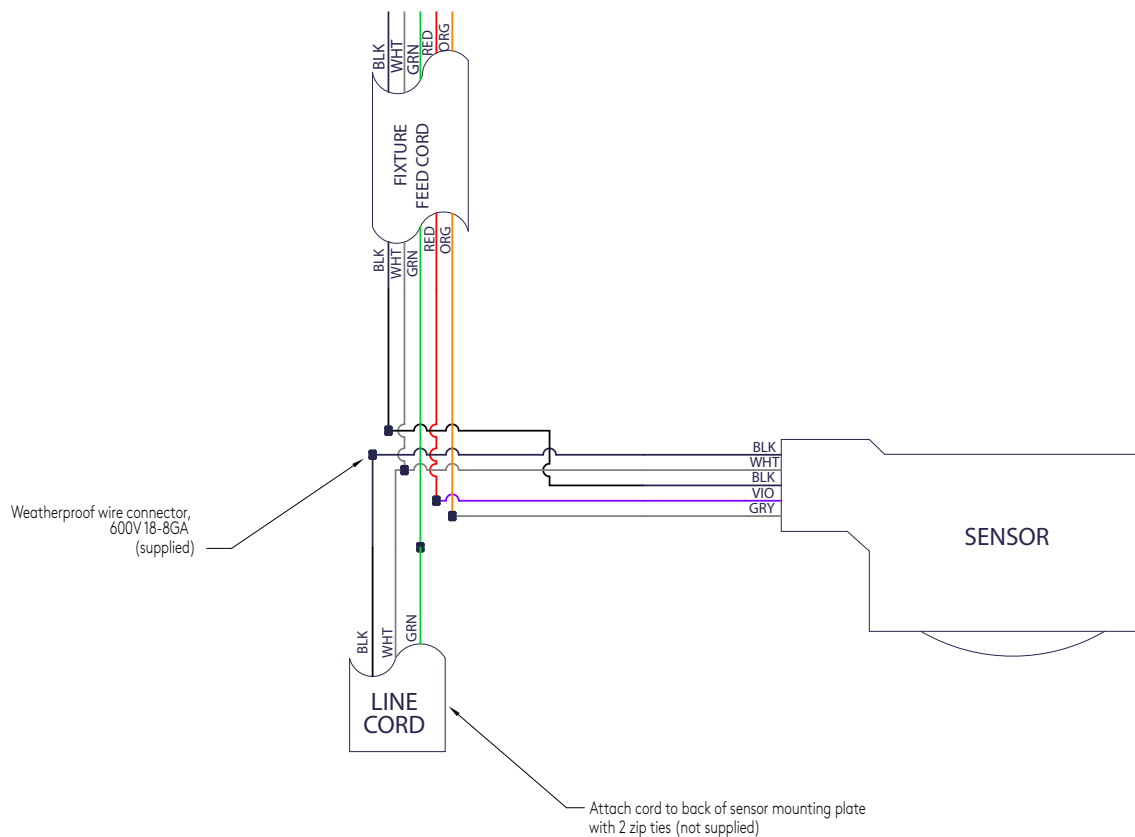
(For coverage details refer to wattstopper FSP-211 spec sheet at www.wattstopper.com)



FSIR-100 (remote)

**Sold Separately
(by others)**

Motion Sensor Option (MS) Wiring (120V-277V)



R1 Optics / 121W LED / 3000K CCT

Catalog #: MST-R1-5G140-30-SV-UNV.

Delivered Lumens: 11636lm

Input Watts: 121W

Efficacy: 96lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 6134 at 48° from vertical.

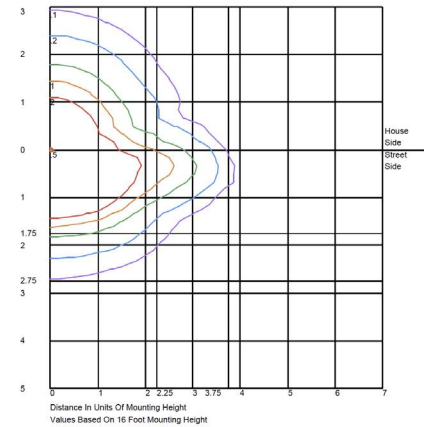
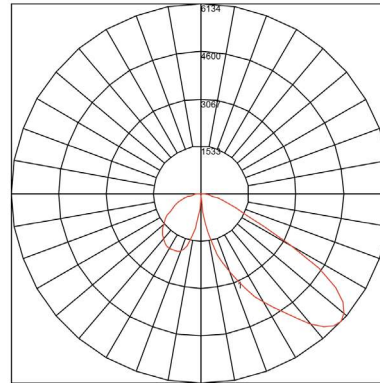
IES classification: Type II

Mounting Height: 16' (4.9m)

BUG Rating: B2-U0-G2

Power Factor: 0.977

Total Harmonic Distortion: 10.5%



R2 Optics / 121W LED / 3000K CCT

Catalog #: MST-R2-5G140-30-SV-UNV

Delivered Lumens: 11860lm

Input Watts: 121W

Efficacy: 98lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 6812 at 67.5° from vertical.

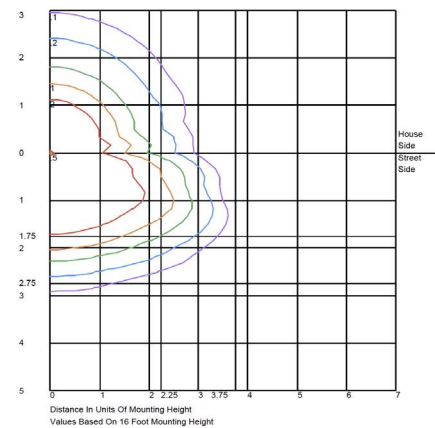
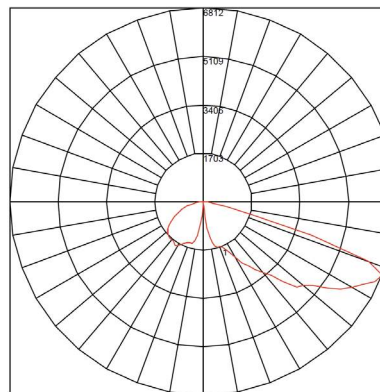
IES classification: Type III

Mounting Height: 16' (4.9m)

BUG Rating: B2-U0-G2

Power Factor: 0.999

Total Harmonic Distortion: 10.5%



R3 Optics / 121W LED / 3000K CCT

Catalog #: MST-R3-5G140-30-SV-UNV

Delivered Lumens: 11798lm

Input Watts: 121W

Efficacy: 98lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 7530 at 65° from vertical.

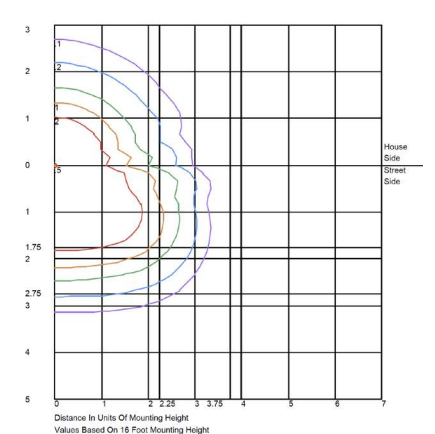
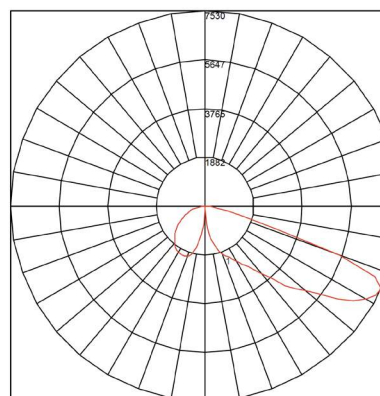
IES classification: Type III

Mounting Height: 16' (4.9m)

BUG Rating: B2-U0-G2

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



R3W Optics / 121W LED / 3000K CCT

Catalog #: MST-R3W-5G140-30-SV-UNV

Delivered Lumens: 11919lm

Input Watts: 121W

Efficacy: 99lm/W

CCT: 3000K

CRI (Ra): >80

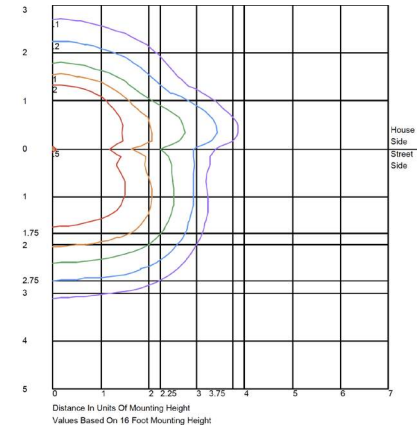
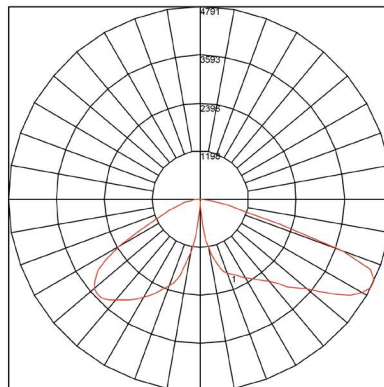
Maximum candela of 4791 at 62.5° from vertical.

IES classification: Type VS

Mounting Height: 16' (4.9m)

BUG Rating: B3-U0-G1

Power Factor: 0.990



R4 Optics / 121W LED / 3000K CCT

Catalog #: MST-R4-1-5G140-30-SV-UNV

Delivered Lumens: 11829lm

Input Watts: 121W

Efficacy: 98lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 8417 at 67.5° from vertical.

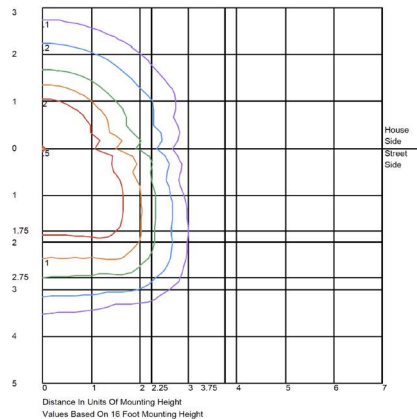
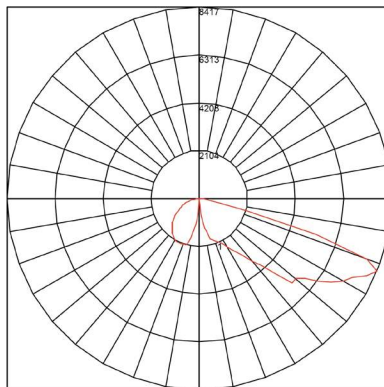
IES classification: Type III

Mounting Height: 16' (4.9m)

BUG Rating: B2-U0-G2

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



R5R Optics / 121W LED / 3000K CCT

Catalog #: MST-R5R-5G140-30-SV-UNV

Delivered Lumens: 12177lm

Input Watts: 121W

Efficacy: 101lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 4642 at 65° from vertical.

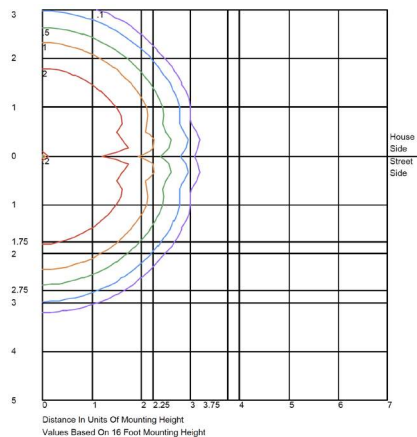
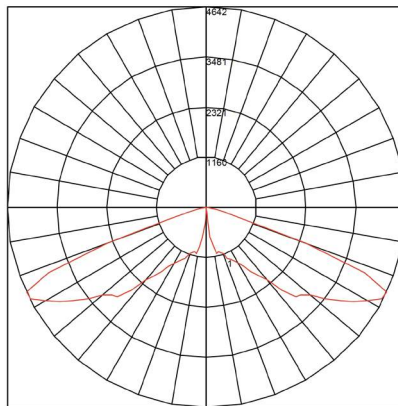
IES classification: Type V

Mounting Height: 16' (4.9m)

BUG Rating: B3-U0-G1

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



R5S Optics / 121W LED / 3000K CCT

Catalog #: MST-R5S-5G140-30-SV-UNV

Delivered Lumens: 12180lm

Input Watts: 121W

Efficacy: 101lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 5163 at 67.5° from vertical.

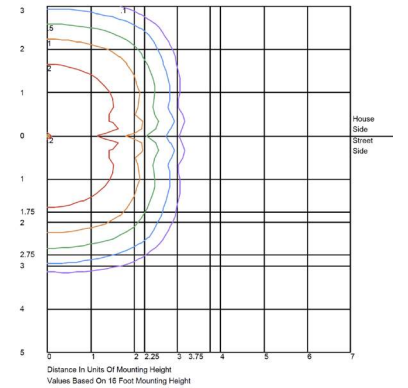
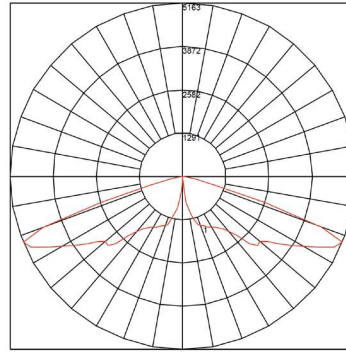
IES classification: Type VS

Mounting Height: 16' (4.9m)

BUG Rating: B3-U0-G2

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



R5Q Optics / 121W LED / 3000K CCT

Catalog #: MST-R5Q-5G140-30-SV-UNV

Delivered Lumens: 11801lm

Input Watts: 121W

Efficacy: 98lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 3722 at 60° from vertical.

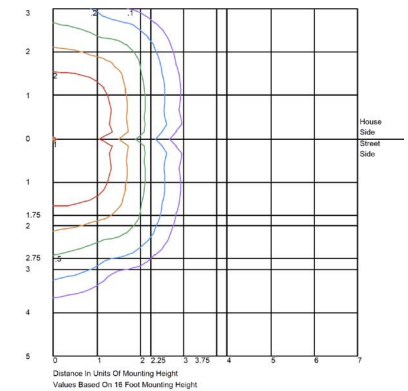
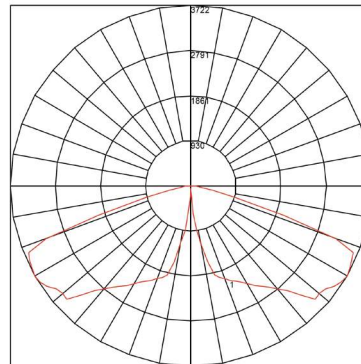
IES classification: Type VS

Mounting Height: 16' (4.9m)

BUG Rating: B3-U0-G3

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



DG Optics / 129W LED / 3000K CCT

Catalog #: MST-DG-X-MP140-30K-SV-UNV

Delivered Lumens: 9544lm

Input Watts: 129W

Efficacy: 74lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 3516 at 17.5° from vertical.

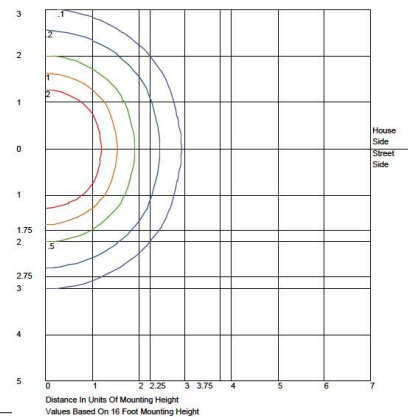
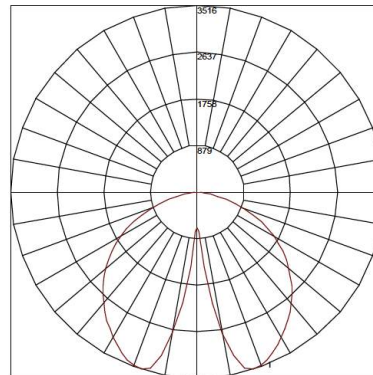
IES classification: Type VS

Mounting Height: 16' (4.9m)

BUG Rating: B3-U0-G1

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



DB1 Optics / 129W LED / 3000K CCT

Catalog #: MST-DB1-X-MP140-30K-SV-UNV

Delivered Lumens: 8408lm

Input Watts: 129W

Efficacy: 65lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 2509 at 22.5° from vertical.

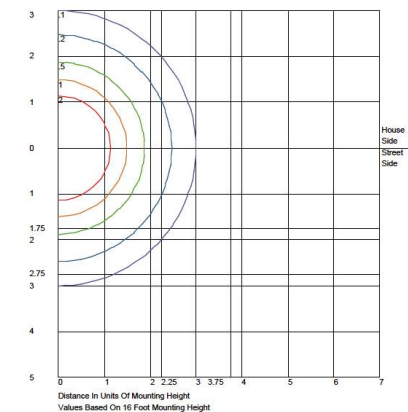
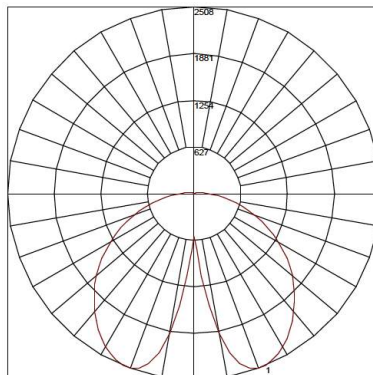
IES classification: Type VS

Mounting Height: 16' (4.9m)

BUG Rating: B2-U0-G1

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



Mistella™ CCT Multiplier	
2700K	0.926
3000K	1.000
4000K	1.063

5Gxxx TM-21 Matrix

TM-21 Lifetime Calculation					
Light Engine	Ambient Temp (°C)	Lumen Maintenance (% at hours)			Reported L ₇₀
		25K	50K	70K	
5G350	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G530	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G700	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G900	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G105	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.1%	98.5%	98.0%	L ₇₀ (12K) > 73,000 hours
5G140	25°C	99.5%	99.2%	99.0%	L ₇₀ (12K) > 73,000 hours
	40°C	98.7%	97.7%	96.8%	L ₇₀ (12K) > 73,000 hours

1. Calculated in accordance with IESNA TM-21-11, projected values are within 6 times (6x) the IESNA LM-80-08 test duration
2. Thermal measurements based on order code: MST-DB1-X-30-XX-BL-UNV

MPxxx TM-21 Matrix

TM-21 Lifetime Calculation						
Ligh Engine	Ambient Temp (°C)	Lumen Maintenance (% at hours)				Reported L ₇₀
		25K	50K	75K	90K	
MP350	25°C	97.5%	95.0%	92.5%	91.0%	L ₇₀ (15K) > 90,000 hours
	40°C	96.4%	93.2%	90.0%	88.2%	L ₇₀ (15K) > 90,000 hours
MP530	25°C	97.5%	95.0%	92.5%	91.0%	L ₇₀ (15K) > 90,000 hours
	40°C	95.8%	91.9%	88.2%	86.1%	L ₇₀ (15K) > 90,000 hours
MP700	25°C	97.5%	95.0%	92.5%	91.0%	L ₇₀ (15K) > 90,000 hours
	40°C	95.1%	90.7%	86.5%	84.0%	L ₇₀ (15K) > 90,000 hours
MP900	25°C	96.9%	94.0%	91.3%	89.7%	L ₇₀ (15K) > 90,000 hours
	40°C	93.7%	88.3%	83.2%	80.3%	L ₇₀ (15K) > 90,000 hours
MP105	25°C	96.4%	93.0%	89.8%	88.0%	L ₇₀ (15K) > 90,000 hours
	40°C	92.8%	85.6%	79.0%	73.2%	L ₇₀ (15K) > 90,000 hours
MP140	25°C	95.1%	90.6%	86.3%	83.8%	L ₇₀ (15K) > 90,000 hours
	40°C	91.8%	83.7%	76.4%	72.3%	L ₇₀ (15K) > 90,000 hours

1. Calculated in accordance with IESNA TM-21-11, projected values are within 6 times (6x) the IESNA LM-80-08 test duration
2. Thermal measurements based on order code: MST-DB1-X-MPxxx-30-XX-BL-UNV

Date: _____ Customer: _____

Project: _____

Type: _____ Qty: _____

selux

LDC
University Place
Mall

FXM3B

Proj.# 180.02

Mistella™ LED



Order Code: **MST** - - - - -

Pole Order Code:

Series Height Finish Options * See pages 4 and 6

MST	Series	MST Mistella™ LED										
	Optics	R1 Type I	R2 Type II	R3 Type III	R3W Type III (Wide)	R4 Type IV	R5R Type V (Round)	R5S Type V (Square)	R5Q Type V (Rectangular)	DG Diffuse Flat Glass	DB1¹ Diffuse Sagged Bowl	¹ DB1 option not Dark Sky
	Mounting	1 Single	2 Double	W Wall								
	Comfort Light Engine (DB1 & DG) OR Technical Light Engine (R1-R5Q)	MP350 nominal 33W/2965lm	MP530 nominal 48W/4443lm	MP700 nominal 61W/5613lm	MP900 nominal 79W/6951lm	MP105 nominal 92W/7796lm	MP140 nominal 129W/9544lm	*Based on 3000K CCT and DG optic				
		5G350 nominal 33W/3745lm	5G530 nominal 48W/5417lm	5G700 nominal 61W/6843lm	5G900 nominal 79W/8475lm	5G105 nominal 92W/9505lm	5G140² nominal 121W/11636lm	² For maximum ambient temperatures up to 40°C only *Based on 3000K CCT and R1 optics				
	CCT	27³ 2700K	30³ 3000K	40 4000K	³ 2700K and 3000K are IDA Approved *For other CCT please consult factory							
	Power Supply Wire Length	10 10'	12 12'	14 14'	16 16'	18 18'	20 20'	XX⁴ XX'	⁴ Add length of arm and height of pole to determine power supply wire length			
	Finish	WH White	BK Black	BL Semi-Matte Black	BZ Bronze	SV Silver	SP Specify Premium Color					
	Voltage	UNV 120V-277V	120⁵ 120V	240⁵ 240V	277⁵ 277V	347⁶ 347V	480⁶ 480V	⁵ Specify for HL option ⁶ Not available with 5G140 or MP140 light engines				
	Options	DM⁸,¹⁰ Dimming (0-10V)	HS⁷ House Side Shield (180°)	HL30⁸,⁹ Hi-Lo Switching Low Output 30%	HL50⁸,⁹ Hi-Lo Switching Low Output 50%	TLR⁸,⁹,¹⁰ Twist Lock Receptacle 7-Pin with Shorting Cap	TLRP Twist Lock Receptacle 3-Pin with Photocell	TLRLL⁸,⁹,¹⁰ Twist Lock Receptacle 7-Pin with Lutron Limelight Module	⁷ Type I, II, III, and IV only ⁸ DM, HLXX, or TLR only. Cannot be combined. ⁹ 120V, 240V, or 277V only ¹⁰ Not available with HL or DM ¹¹ Cannot be combined with DG or DB1			
		GL¹¹ Clear Flat Glass Lens	ROL Rotate optics left	ROR Rotate optics right	Pole Motion Sensor with optional photocell See page 8 for order code							



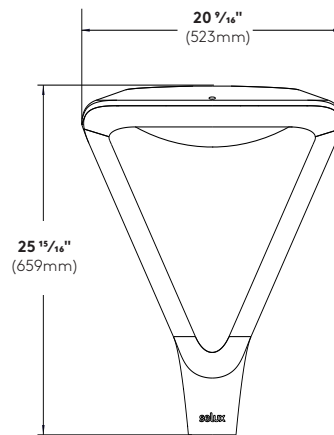
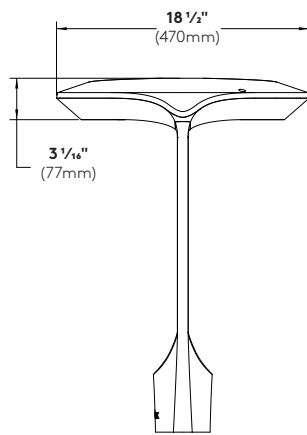
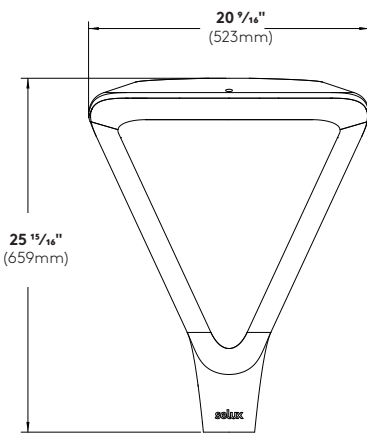
IP65



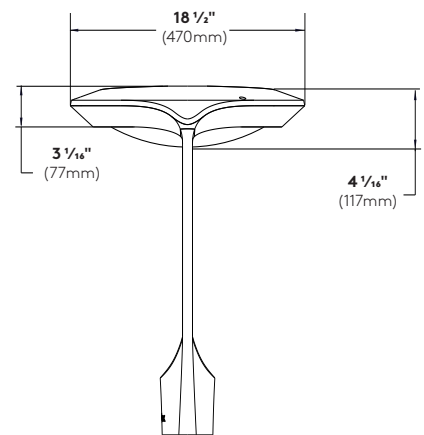
UNION
MADE



Gen5/DG Optic



DB1 Optic



Specifications

Luminaire Cover - Cast aluminum cover made from low copper aluminum.

Gasketing - Continuous gasket provides weatherproofing, dust, and insect control at all fixture connections.

LED Array - LEDs mounted to PC boards and attached to aluminum heat sink for maximum LED performance and life. 3-step MacAdams ellipse for 2700K, 3000K and 4000K. CRI minimum 80. Complete light engine can be removed easily for future upgrade.

LED Optics - Technical Optics (R1, R2, R3, R3W, R4, R5R, R5S, and R5Q) use Selux signature light pattern acrylic lens holder to secure proprietary silicone optics. Internal micro house side shield available for distribution types I, II, III & IV with or without clear glass option. DG and DB1 optics use a mid-power LED board. DG consists of recessed diffuse puck with flat clear glass. DB1 uses sagged diffuse polycarbonate bowl.

LED Driver - LEDs are driven by RoHS compliant constant current programmable LED driver. Driver includes 0-10V dimming to 10%, meets the requirements of IP66. Driver assembly located inside the head.

Arm/Arms - Cast aluminum arms support upper housing and optic assembly with built in pole fitter.

Pole Fitter - Self-leveling, die cast low-copper aluminum, fitter base secured to pole with stainless steel allen head set screws. Fitter for 3.5" (90mm) O.D. poles or poles with 3.5" tenon.

Surge Protector - Designed to protect luminaire from electrical surge (20kA).

Power Supply Wire - Pre-installed at factory. Please specify power supply wire length in accordance to height of the pole. Add two (2) feet to power supply wire length for single mount and four (4) feet for double arm mount.

Hi-Lo Switching Option - Please see page 6 for details.

Exterior Luminaire Finish - Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultraviolet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI. Standard exterior colors are White (WH), Black (BK), Semi-Matte Black (BL), Bronze (BZ), and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide.

5 Year Limited LED Luminaire Warranty -

Selux offers a 5 Year Limited Warranty to the original purchaser that the Mistella™ LED luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the LED driver and LED array when installed and operated according to Selux instructions. For details, see "Selux Terms and Condition of Sale."

Listings and Ratings: Luminaire and LED tested to IP65 and IESNA LM-79-08 standards. LED tested to LM-80 standards. Luminaire and LED tested at 25°C ambient temperature.

Luminaire suitable for ambient temperatures of 45°C. Minimum operating temperature of luminaire at -40°C (-40°F).

NRTL Listed (i.e. UL, CSA)

Visit selux.us for our LED End of Life recycling policy.

For Buy American compliance on poles, please consult the factory.

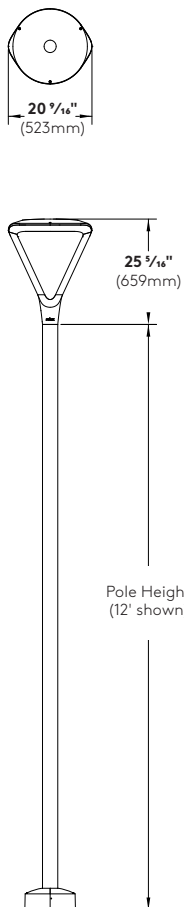
Mounting

Single (1)

Cast aluminum fitter base secured to pole with two stainless steel Allen head set screws.

EPA = 1.2ft² (0.11m²)

Weight = 18lbs. (8.2kg)

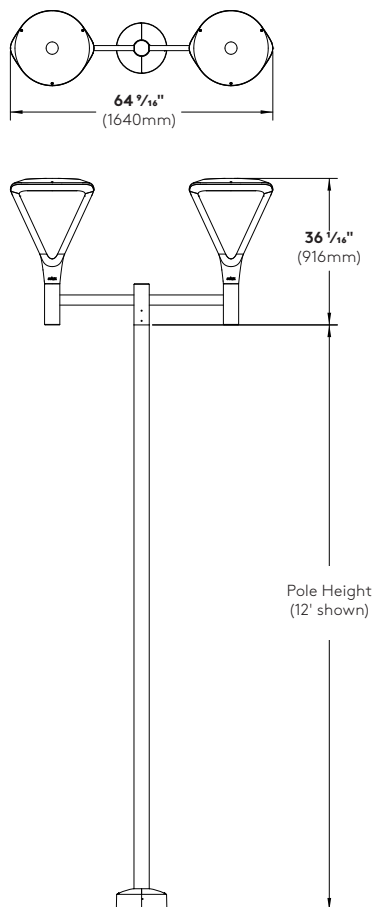


Double Arm Mount (2)

Structural aluminum double luminaire mounting arm secured to pole with six stainless steel Allen head set screws.

EPA = 3.4ft² (0.32m²)

Weight = 49lbs. (22.2kg)

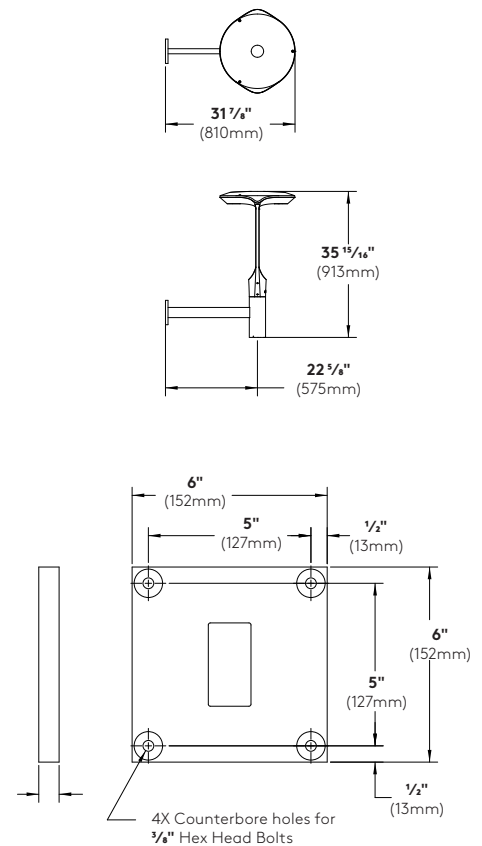


Wall (W)

Structural aluminum single luminaire mounting arm. Secured to wall with four 3/8" diameter threaded fasteners (by others).

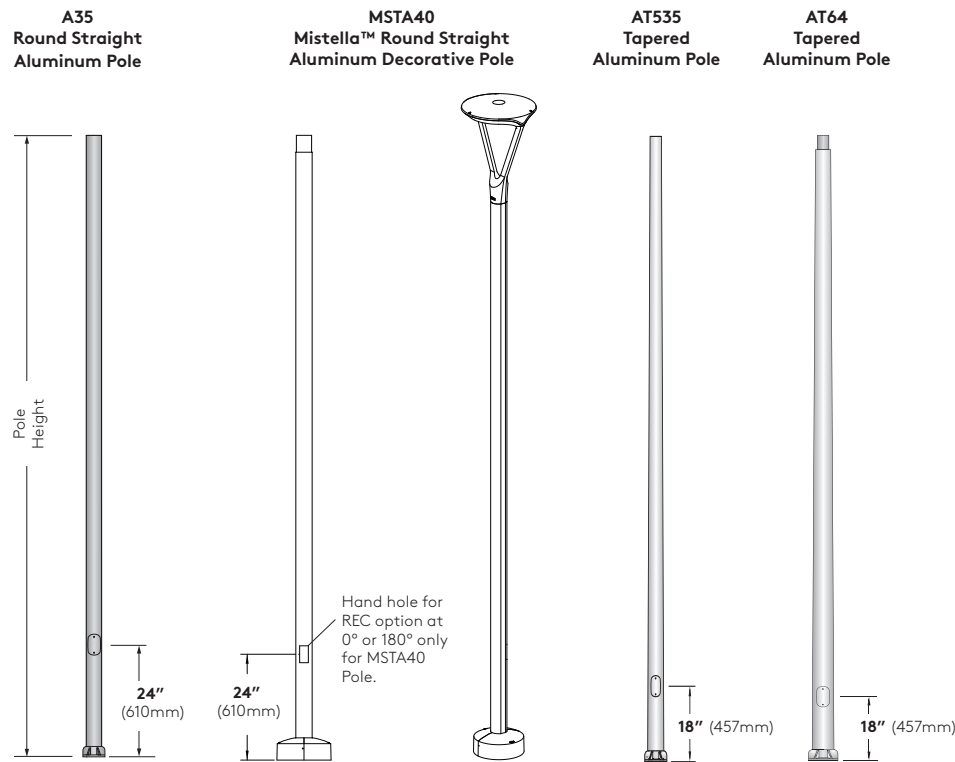
EPA = 1.6ft² (0.15m²)

Weight = 26lbs. (11.8kg)



Pole Information

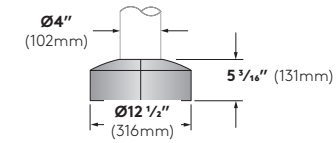
Refer to pole specification sheets for construction details, anchorage information and additional options.



Optional Base Covers for Poles

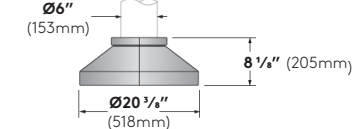
MSTBC13 Optional Base Cover (MSTA40)

Die cast aluminum, two-piece field installable base cover.



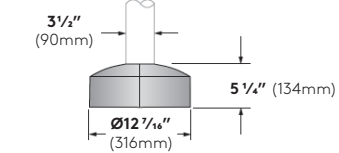
BC9 Optional Base Cover (AT64)

Die cast aluminum, two-piece field installable base cover.



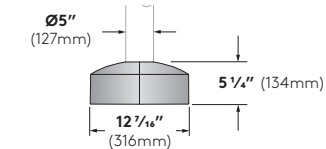
BC5 Standard Base Cover (AT35)

Die cast aluminum, two-piece field installable base cover.



BC3 Optional Base Cover (AT535)

Die cast aluminum, two-piece field installable base cover.



Pole Data Chart

Pole Series	Bolt Circle	EPA Information (ft ²)											Height	Finish	Options
		85 mph	90 mph	100 mph	110 mph	120 mph	130 mph	140 mph	150 mph	160 mph	170 mph	180 mph			
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	9.9	8.7	6.8	5.4	4.3	3.5	2.9	2.5	2.1	1.8	1.6	8	WH White	BC5 Two-piece cast aluminum base cover (for Mistella™ AT535 pole only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	10.6	9.3	7.3	5.8	4.7	3.9	3.3	2.9	2.5	1.6	1.4	8ft		
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	7.4	6.4	4.9	3.8	2.9	2.2	1.8	1.5	1.2	-	-	10	BK Black	BC5 Two-piece cast aluminum base cover (for Mistella™ A35 pole only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	8.2	7.2	5.5	4.2	3.3	2.8	2.3	1.9	1.6	-	-	10ft		
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	5.6	4.8	3.5	2.6	1.8	1.3	-	-	-	-	-	12	BL Semi-Matte Black	BC9 Decorative cast aluminum base cover (for Mistella™ AT64 pole only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	6.4	5.5	4.1	3.1	2.3	1.8	1.4	-	-	-	-	12ft		
AT535 5" to 3 - 1/2" Round Tapered Aluminum Pole	8 - 5/8"	15.2	13.4	10.5	8.4	6.9	5.8	4.9	4.2	3.6	3.2	2.8	14	BZ Bronze	MSTBC13 Decorative Cast aluminium base cover (for Mistella™ MSTA40 pole only)
AT64 6" to 4" Round Tapered Aluminum Pole	9 - 1/2"	22.9	20.3	16.1	13.1	10.9	9.2	7.9	6.8	5.9	5.2	4.5	14ft		
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	4.2	3.5	2.4	1.6	-	-	-	-	-	-	-	16	SV Silver	T35 Supplied with 3/2" diameter tenon, 4 1/2" high (for Mistella™ MSTA40 and AT64 poles only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	5.0	4.2	3.0	2.1	1.4	-	-	-	-	-	-	16ft		
AT535 5" to 3 - 1/2" Round Tapered Aluminum Pole	8 - 5/8"	12.8	11.2	8.7	6.9	5.5	4.6	3.8	3.3	2.8	2.4	2.1	18	SP Specify Premium Color	REC GFCI Receptacle with weather-proof cover (120V only)
AT64 6" to 4" Round Tapered Aluminum Pole	9 - 1/2"	19.5	17.2	13.6	11.0	9.1	7.6	6.5	5.6	4.8	4.2	3.7	18ft		
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	2.7	2.1	1.2	-	-	-	-	-	-	-	-	16	SV Silver	REC2GFCI Receptacle with padlockable in-use cover (120V only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	3.7	3.2	2.0	-	-	-	-	-	-	-	-	16ft		
AT535 5" to 3 - 1/2" Round Tapered Aluminum Pole	8 - 5/8"	10.5	9.1	6.9	5.4	4.3	3.4	2.9	2.4	2.0	1.7	1.5	18	SP Specify Premium Color	REC3USB and Duplex Receptacle with weather-proof cover (120V only)
AT64 6" to 4" Round Tapered Aluminum Pole	9 - 1/2"	16.3	14.3	11.2	9.0	7.4	6.2	5.2	4.4	3.8	3.3	2.9	18ft		
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	2.3	1.7	-	-	-	-	-	-	-	-	-	18	SP Specify Premium Color	REC4USB and Duplex Receptacle with weather-proof padlockable in-use cover (120V only)
AT535 5" to 3 - 1/2" Round Tapered Aluminum Pole	8 - 5/8"	10.7	9.2	7.0	5.4	4.2	3.4	2.8	2.3	2.0	1.7	1.4	18ft		
AT64 6" to 4" Round Tapered Aluminum Pole	9 - 1/2"	13.6	11.8	9.2	7.3	6.0	4.9	4.2	3.5	3.0	2.6	2.2	18ft	MS	Motion Sensor with Optional Photocell (see page 6)

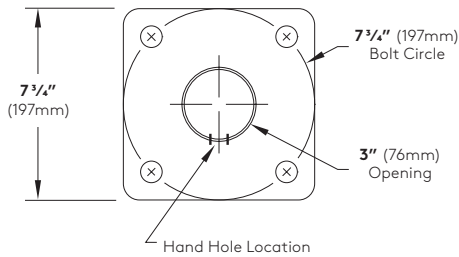
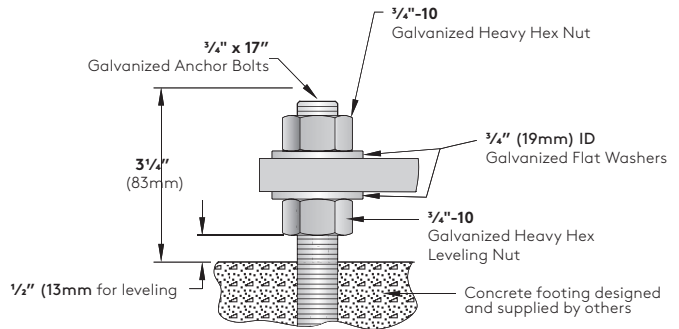
¹ Maximum Basic Wind Speed certified in accordance with AASHTO 2013 (LTS-6)

² Values are nominal 3-s gust wind speeds in accordance with ASCE 7-05 for Allowable Stress Design (ASD) analysis

Bolt Circle for A35

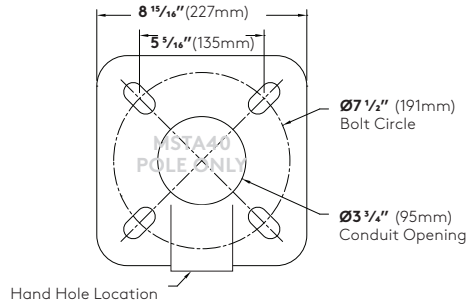
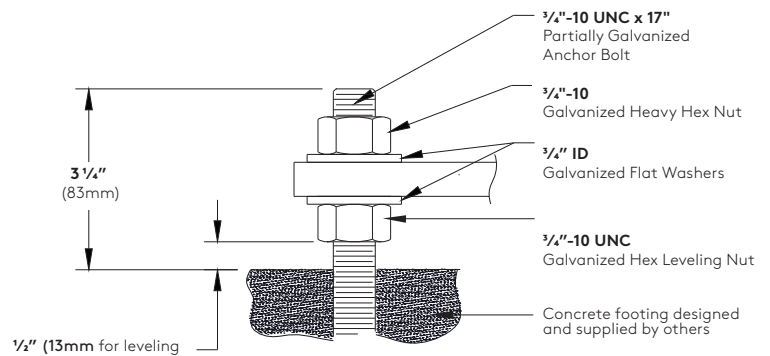
Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

Note: Adequate drainage must be provided in concrete foundation.

**Anchor Bolt Detail for A35****Bolt Circle for MSTA40**

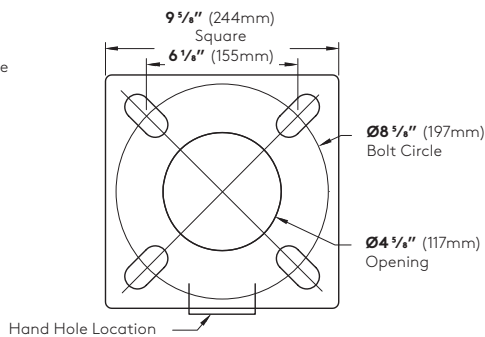
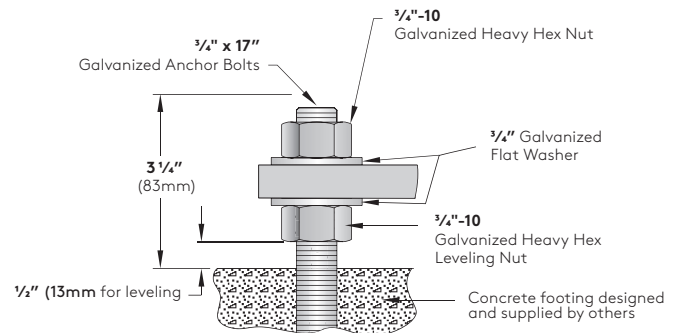
Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

Note: Adequate drainage must be provided in concrete foundation.

**Anchor Bolt Detail for MSTA40****Bolt Circle for AT535**

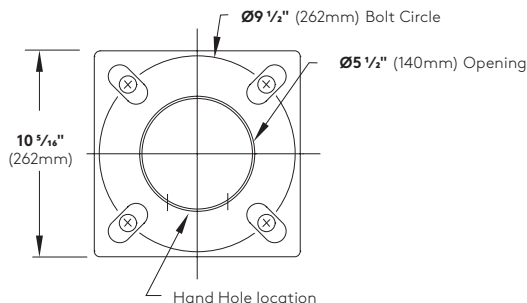
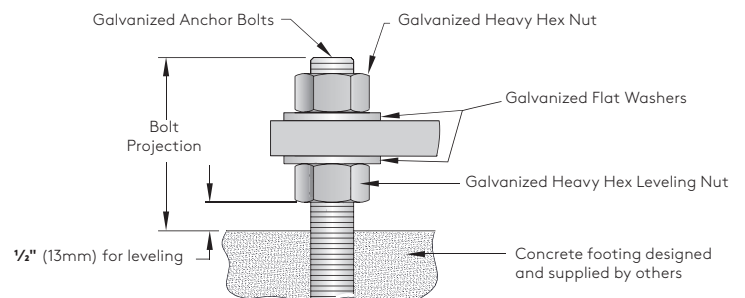
Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

Note: Adequate drainage must be provided in concrete foundation.

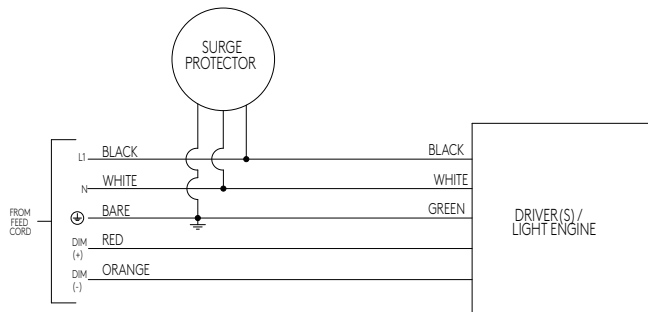
**Anchor Bolt Detail for AT535****Bolt Circle for AT64**

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

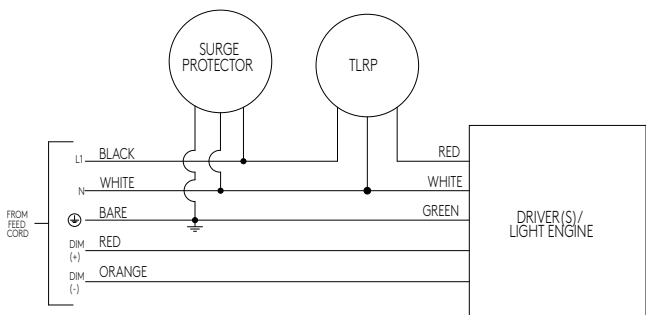
Note: Adequate drainage must be provided in concrete foundation.

**Anchor Bolt Detail for AT64**

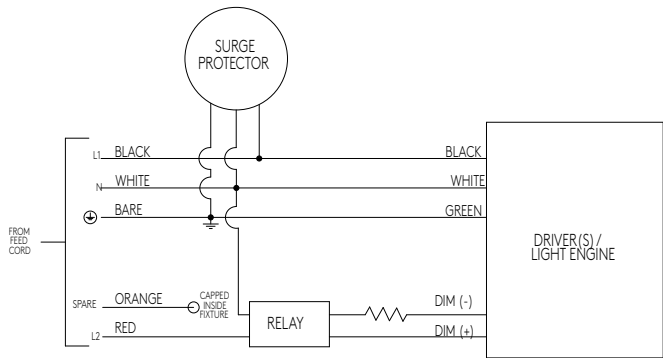
Standard Wiring (120V-480V)*



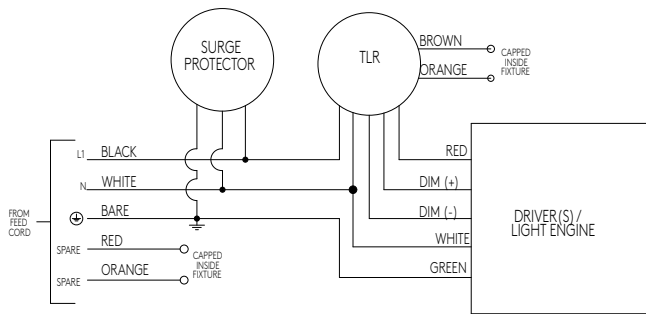
TLRP Wiring (120V/240V/277V)



Hi-Lo Switching Option (HL30/HL50) Wiring 120/240/277V.
When red is energized, light output will be at "Lo" level.



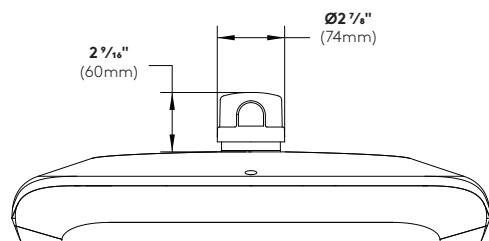
TLR Wiring (120V-480V)*



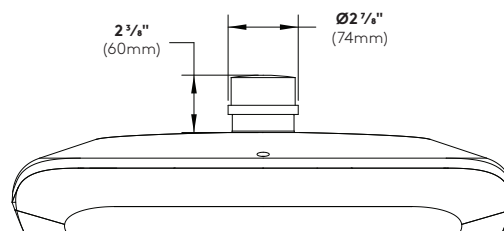
*(347/480V with 5G350 has a transformer - not shown)

Optional Accessories

(TLRP) Twist Lock Receptacle with Photocell



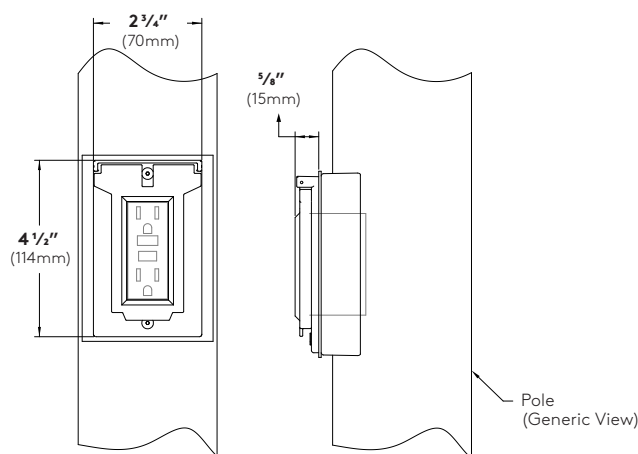
(TLR) 7-Pin Twist Lock Receptacle with Shorting Cap



TLRP = TE Connectivity BF Series (BF-PV) 3-Pin

REC and REC3

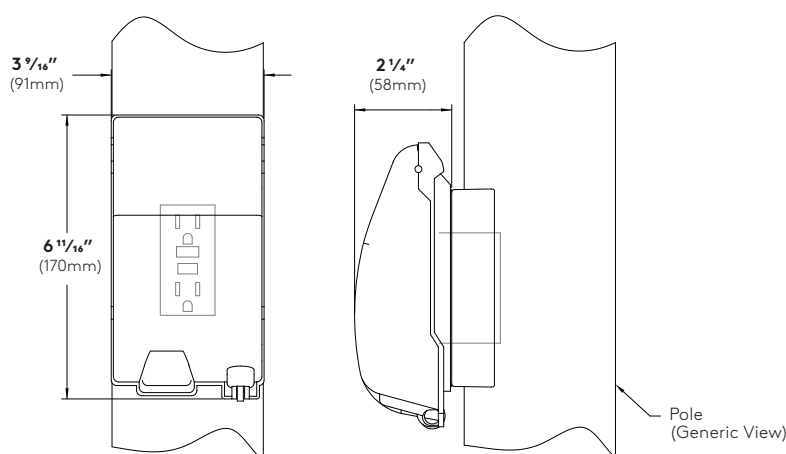
(location for MSTA40 pole at 0° or 180° only)



Cover shown in the closed position

REC2 and REC4

(location for MSTA40 pole at 0° or 180° only)



Cover shown in the closed position

GFCI Receptacle (REC) - 120V 15A GFCI duplex receptacle with weatherproof, self-closing cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel (120V only).

USB & Duplex Receptacle (REC3) (not shown) - 120V 20A duplex receptacle with USB combination ports. (1) type A and (1) type C high power 5A, 5V USB outlets. With weatherproof, self-closing cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.

REC3 does not incorporate GFCI (Ground Fault Circuit Interrupter) protection, and shall be powered by a GFCI protected branch circuit (by others).

GFCI Receptacle (REC2) - 120V 15A GFCI duplex receptacle with weatherproof, self-closing, padlockable in-use cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel (120V only).

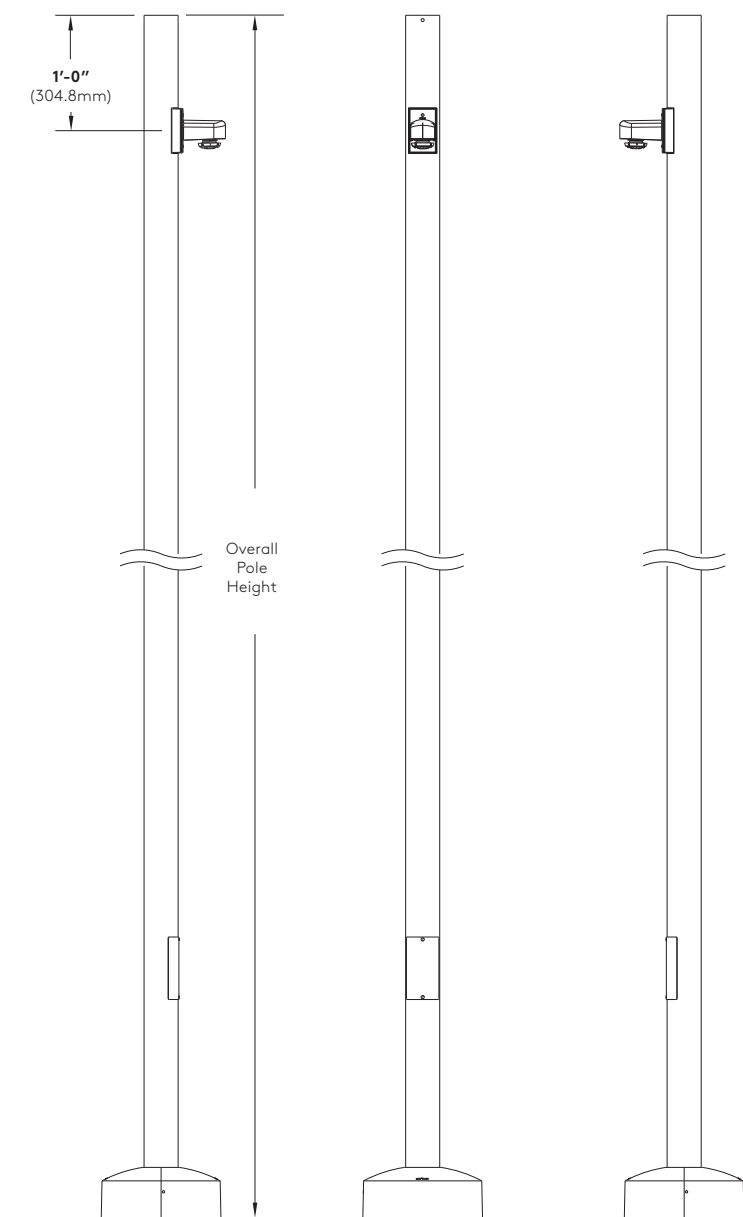
USB & Duplex Receptacle (REC4) (not shown) - 120V 20A duplex receptacle with USB combination ports. (1) type A and (1) type C high power 5A, 5V USB outlets. With weatherproof, self-closing padlockable in-use cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.

REC4 does not incorporate GFCI (Ground Fault Circuit Interrupter) protection, and shall be powered by a GFCI protected branch circuit (by others).

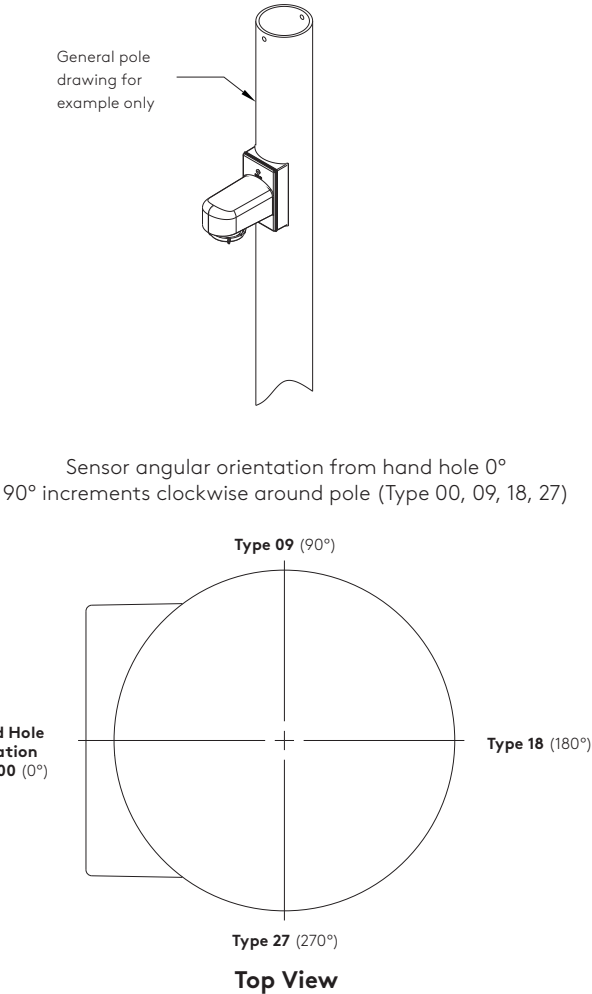
Round Pole Motion Sensor

The Selux outdoor rated sensor incorporates Passive Infrared (PIR) Technology for motion sensing and also includes built-in photocell. Sensor comes pre-installed in cast aluminum housing painted to match pole finish.

Series	Optic (270° coverage)	Hand Hole Orientation	Dim Level	Photocell Feature	Voltage
MS Motion Sensor	L (Low 8-12ft height) M (Medium 13-20ft height)	00 0° Clockwise from Hand Hole	D0 (Off)	Y Yes	UNV (120-277V)
		09 90° Clockwise from Hand Hole	D1 (1V=10%)		347* (347V)
		18 180° Clockwise from Hand Hole	D3 (3V=30%)	N No	480* (480V)
		27* 270° Clockwise from Hand Hole	D5 (5V=50%)		*consult factory for 347V and 480V



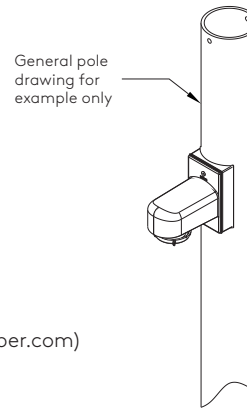
Factory Defaults:
Delay to Dim: 5 minutes
Delay to Off: 1 hour
Sensitivity: Max
Custom Programming: Consult Factory



Motion Sensor Features

- Customize programming using handheld wireless remote control (FSIR-100) sold separately (by others)
- 5 Year Warranty
- 100% Digital PIR Detection, excellent RF Immunity
- 270° coverage pattern
- IP66 Rated for outdoor applications
- Made for LED light source
- Adjustable time delays, max/min dim levels, and ramp rates
- Suitable for Title 24 applications

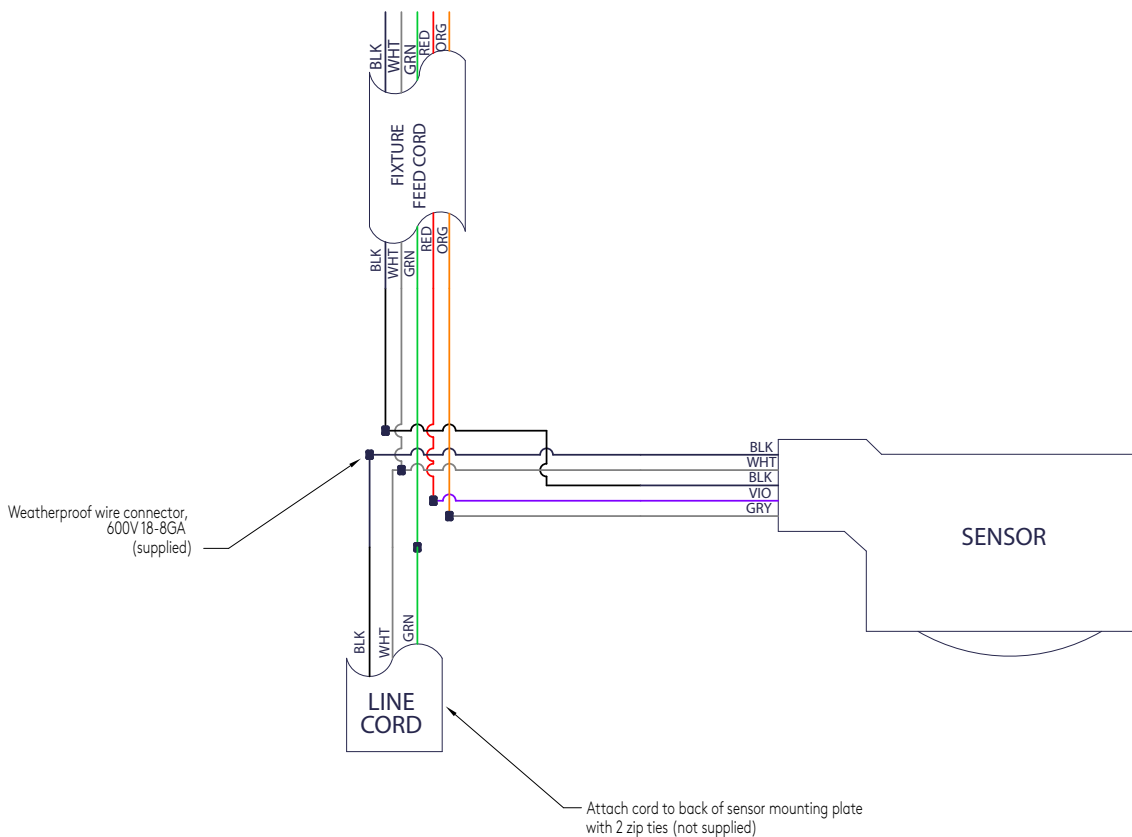
(For coverage details refer to wattstopper FSP-211 spec sheet at www.wattstopper.com)



FSIR-100 (remote)

**Sold Separately
(by others)**

Motion Sensor Option (MS) Wiring (120V-277V)



R1 Optics / 121W LED / 3000K CCT

Catalog #: MST-R1-5G140-30-SV-UNV.

Delivered Lumens: 11636lm

Input Watts: 121W

Efficacy: 96lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 6134 at 48° from vertical.

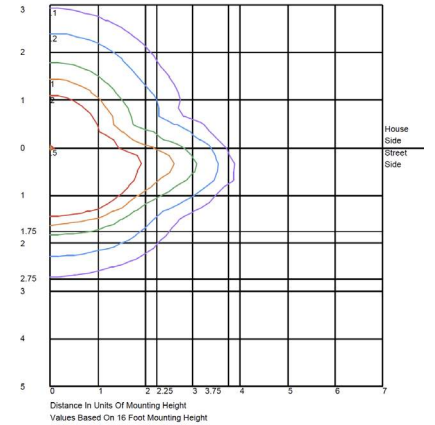
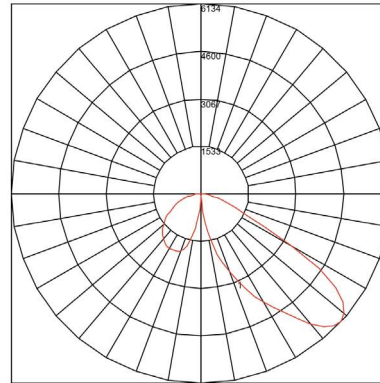
IES classification: Type II

Mounting Height: 16' (4.9m)

BUG Rating: B2-U0-G2

Power Factor: 0.977

Total Harmonic Distortion: 10.5%



R2 Optics / 121W LED / 3000K CCT

Catalog #: MST-R2-5G140-30-SV-UNV

Delivered Lumens: 11860lm

Input Watts: 121W

Efficacy: 98lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 6812 at 67.5° from vertical.

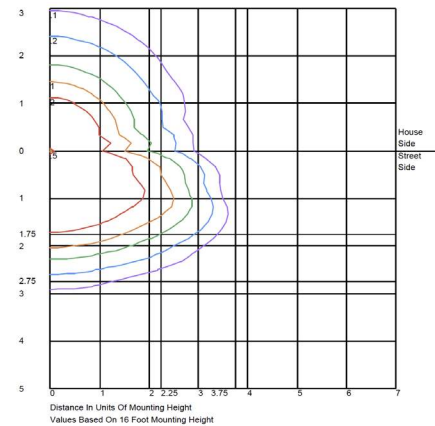
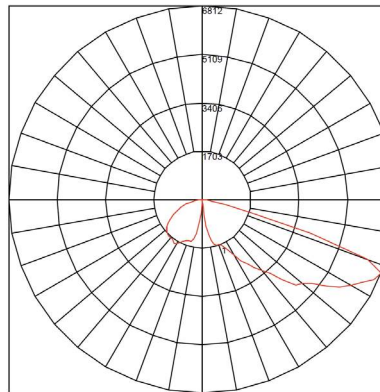
IES classification: Type III

Mounting Height: 16' (4.9m)

BUG Rating: B2-U0-G2

Power Factor: 0.999

Total Harmonic Distortion: 10.5%



R3 Optics / 121W LED / 3000K CCT

Catalog #: MST-R3-5G140-30-SV-UNV

Delivered Lumens: 11798lm

Input Watts: 121W

Efficacy: 98lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 7530 at 65° from vertical.

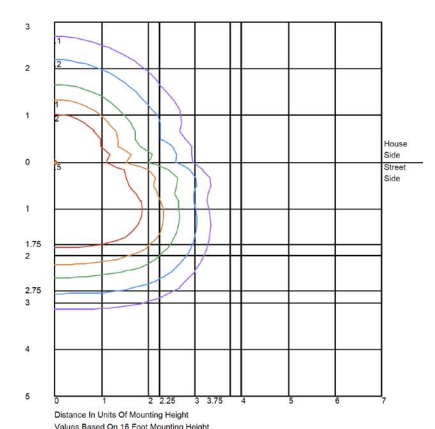
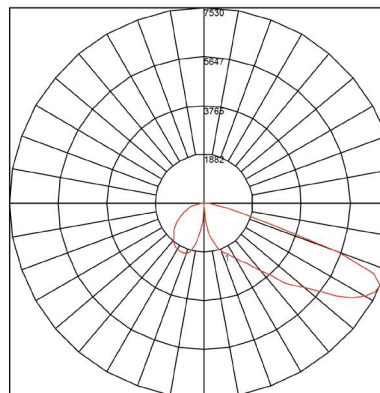
IES classification: Type III

Mounting Height: 16' (4.9m)

BUG Rating: B2-U0-G2

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



R3W Optics / 121W LED / 3000K CCT

Catalog #: MST-R3W-5G140-30-SV-UNV

Delivered Lumens: 11919lm

Input Watts: 121W

Efficacy: 99lm/W

CCT: 3000K

CRI (Ra): >80

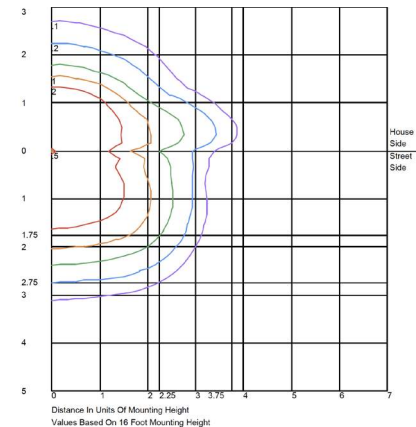
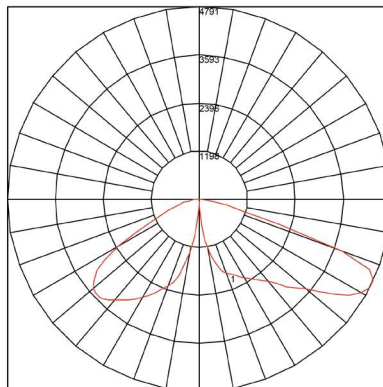
Maximum candela of 4791 at 62.5° from vertical.

IES classification: Type VS

Mounting Height: 16' (4.9m)

BUG Rating: B3-U0-G1

Power Factor: 0.990



R4 Optics / 121W LED / 3000K CCT

Catalog #: MST-R4-1-5G140-30-SV-UNV

Delivered Lumens: 11829lm

Input Watts: 121W

Efficacy: 98lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 8417 at 67.5° from vertical.

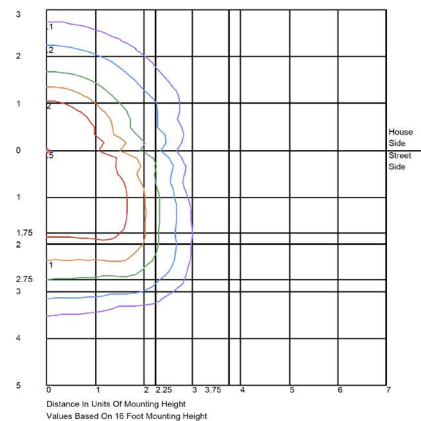
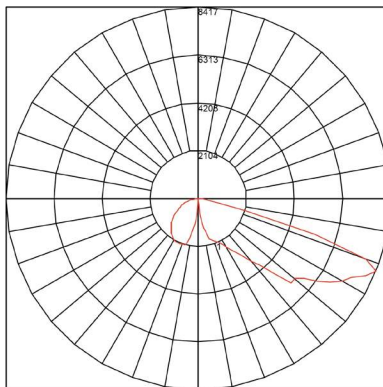
IES classification: Type III

Mounting Height: 16' (4.9m)

BUG Rating: B2-U0-G2

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



R5R Optics / 121W LED / 3000K CCT

Catalog #: MST-R5R-5G140-30-SV-UNV

Delivered Lumens: 12177lm

Input Watts: 121W

Efficacy: 101lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 4642 at 65° from vertical.

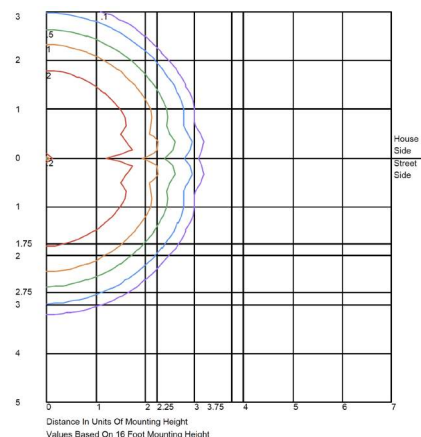
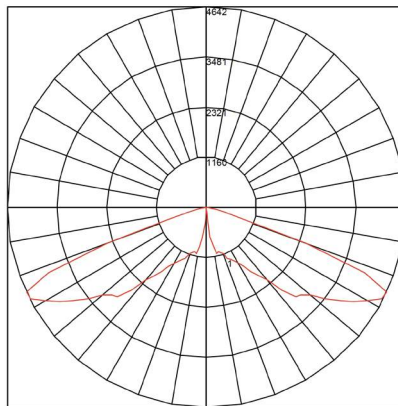
IES classification: Type V

Mounting Height: 16' (4.9m)

BUG Rating: B3-U0-G1

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



R5S Optics / 121W LED / 3000K CCT

Catalog #: MST-R5S-5G140-30-SV-UNV

Delivered Lumens: 12180lm

Input Watts: 121W

Efficacy: 101lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 5163 at 67.5° from vertical.

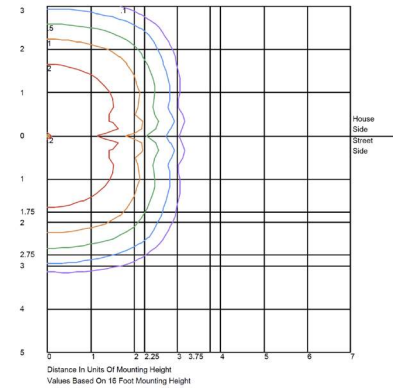
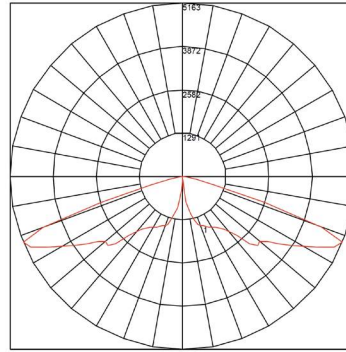
IES classification: Type VS

Mounting Height: 16' (4.9m)

BUG Rating: B3-U0-G2

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



R5Q Optics / 121W LED / 3000K CCT

Catalog #: MST-R5Q-5G140-30-SV-UNV

Delivered Lumens: 11801lm

Input Watts: 121W

Efficacy: 98lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 3722 at 60° from vertical.

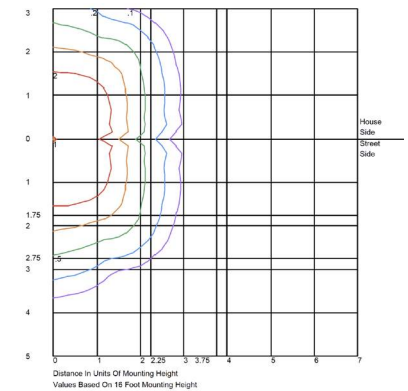
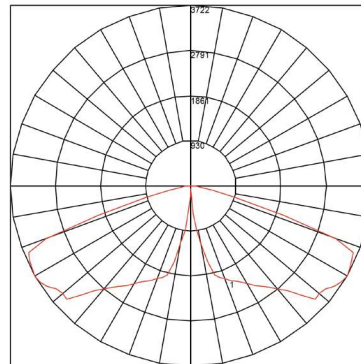
IES classification: Type VS

Mounting Height: 16' (4.9m)

BUG Rating: B3-U0-G3

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



DG Optics / 129W LED / 3000K CCT

Catalog #: MST-DG-X-MP140-30K-SV-UNV

Delivered Lumens: 9544lm

Input Watts: 129W

Efficacy: 74lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 3516 at 17.5° from vertical.

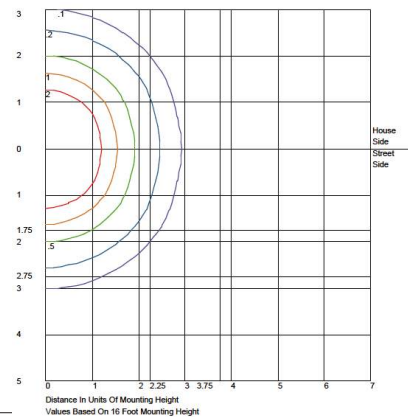
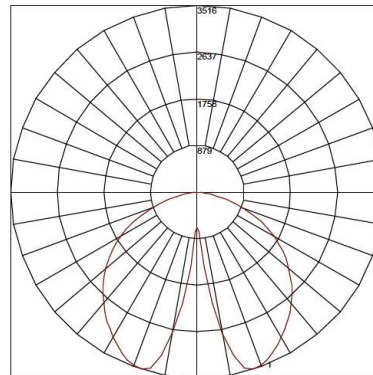
IES classification: Type VS

Mounting Height: 16' (4.9m)

BUG Rating: B3-U0-G1

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



DB1 Optics / 129W LED / 3000K CCT

Catalog #: MST-DB1-X-MP140-30K-SV-UNV

Delivered Lumens: 8408lm

Input Watts: 129W

Efficacy: 65lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 2509 at 22.5° from vertical.

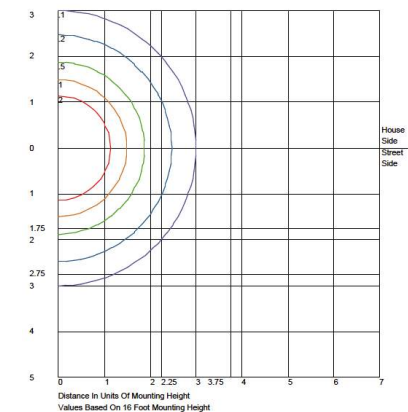
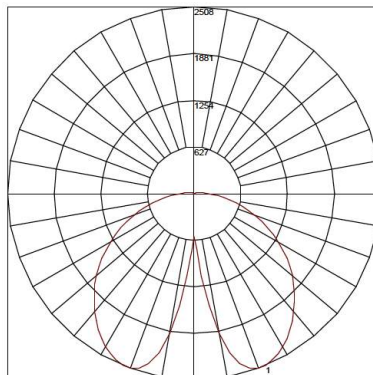
IES classification: Type VS

Mounting Height: 16' (4.9m)

BUG Rating: B2-U0-G1

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



Mistella™ CCT Multiplier	
2700K	0.926
3000K	1.000
4000K	1.063

5Gxxx TM-21 Matrix

TM-21 Lifetime Calculation					
Light Engine	Ambient Temp (°C)	Lumen Maintenance (% at hours)			Reported L ₇₀
		25K	50K	70K	
5G350	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G530	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G700	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G900	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G105	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.1%	98.5%	98.0%	L ₇₀ (12K) > 73,000 hours
5G140	25°C	99.5%	99.2%	99.0%	L ₇₀ (12K) > 73,000 hours
	40°C	98.7%	97.7%	96.8%	L ₇₀ (12K) > 73,000 hours

1. Calculated in accordance with IESNA TM-21-11, projected values are within 6 times (6x) the IESNA LM-80-08 test duration
2. Thermal measurements based on order code: MST-DB1-X-30-XX-BL-UNV

MPxxx TM-21 Matrix

TM-21 Lifetime Calculation						
Ligh Engine	Ambient Temp (°C)	Lumen Maintenance (% at hours)				Reported L ₇₀
		25K	50K	75K	90K	
MP350	25°C	97.5%	95.0%	92.5%	91.0%	L ₇₀ (15K) > 90,000 hours
	40°C	96.4%	93.2%	90.0%	88.2%	L ₇₀ (15K) > 90,000 hours
MP530	25°C	97.5%	95.0%	92.5%	91.0%	L ₇₀ (15K) > 90,000 hours
	40°C	95.8%	91.9%	88.2%	86.1%	L ₇₀ (15K) > 90,000 hours
MP700	25°C	97.5%	95.0%	92.5%	91.0%	L ₇₀ (15K) > 90,000 hours
	40°C	95.1%	90.7%	86.5%	84.0%	L ₇₀ (15K) > 90,000 hours
MP900	25°C	96.9%	94.0%	91.3%	89.7%	L ₇₀ (15K) > 90,000 hours
	40°C	93.7%	88.3%	83.2%	80.3%	L ₇₀ (15K) > 90,000 hours
MP105	25°C	96.4%	93.0%	89.8%	88.0%	L ₇₀ (15K) > 90,000 hours
	40°C	92.8%	85.6%	79.0%	73.2%	L ₇₀ (15K) > 90,000 hours
MP140	25°C	95.1%	90.6%	86.3%	83.8%	L ₇₀ (15K) > 90,000 hours
	40°C	91.8%	83.7%	76.4%	72.3%	L ₇₀ (15K) > 90,000 hours

1. Calculated in accordance with IESNA TM-21-11, projected values are within 6 times (6x) the IESNA LM-80-08 test duration
2. Thermal measurements based on order code: MST-DB1-X-MPxxx-30-XX-BL-UNV

FEATURES & SPECIFICATIONS

INTENDED USE — Round Straight Aluminum Hinged is a special purpose light pole for up to 20-foot mounting heights. This pole provides a robust and naturally corrosion-resistant option for mounting area light fixtures and floodlights in locations where maintenance access is limited.

CONSTRUCTION — **Pole Shaft:** The pole shaft is of uniform wall thickness and is one-piece extruded 6063 aluminum alloy with T6 temper. The shaft is uniform in cross-section down length of pole with no taper. Available shaft diameters are 4", 5", and 6".

Pole Top: Options include tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. A cast aluminum top cap is provided for all poles that will receive drilling patterns for side-mount luminaire arm assemblies or when ordered with open top (PT) option. The top cap resists intrusion of moisture and environmental contaminants.

Handhole: Handhole is not included. A non-reinforced 2" x 4" handhole with an overlap cover and grounding provision is available as an option and is normally positioned at 18" above base and to right side of hinge. Anchor base plate is tapped for 3/8-16 stainless steel grounding bolt (provided by others).

Base Cover: Two-piece cast aluminum base cover is included. Decorative base covers and spun aluminum one or two-piece covers are also available as an option.

Anchor Base/Bolts: Anchor base is cast from 356 alloy aluminum and is heat treated to a T6 temper after welding. Anchor bolts are manufactured to ASTM F1554 Standards Grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Upper portion of anchor bolt is galvanized per ASTM A-153; bolts have an "L" bend on bottom end and are galvanized a minimum of 12" on the threaded end. Each hot-dipped galvanized anchor bolt is furnished with two hex nuts and two flat washers.

HARDWARE — All structural and non-structural fasteners are stainless-steel.

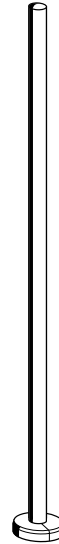
FINISH — Painted finish is coated with polyester powder that meets 5A and 5B classifications of ASTM D3359. Standard powder-coat finishes include Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Classic finishes include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue colors. Other finishes include Brushed Aluminum, and Anodized Dark Bronze, Anodized Natural Aluminum and Anodized Black. Architectural Colors and Special Finishes are available by quote and include, but are not limited to RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

WARRANTY — 1-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

Catalog Number	LDC University Place Mall	FXM4
Notes	Proj.# 180.02	
Type		



Anchor Base Poles

RSAH

ROUND STRAIGHT ALUMINUM HINGED

RSAH Round Straight Aluminum Hinged Poles

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: RSAH 16 4C DM19 BA

RSAH					
Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness ¹	Mounting ²	Options	Finish ⁹
RSAH	(See technical information table.)	(See technical information table.)	<p><u>Tenon mounting</u></p> <p>PT Open top</p> <p>T20 2-3/8" O.D. (2" NPS)</p> <p>T25 2-7/8" O.D. (2-1/2" NPS)</p> <p>T30 3-1/2" O.D. (3" NPS)²</p> <p>T35 4" O.D. (3-1/2" NPS)²</p> <p><u>KAC/KAD/KSE/KSF/KVR/KVF Drill mounting³</u></p> <p>DM19 1 at 90°</p> <p>DM28 2 at 180°</p> <p>DM28PL 2 at 180° with one side plugged</p> <p>DM29 2 at 90°</p> <p>DM32 3 at 120°</p> <p>DM39 3 at 90°</p> <p>DM49 4 at 90°</p> <p><u>CSX/DSX/RSX/AERIS™/OMERO™ Drill mounting³</u></p> <p>DM19AS 1 at 90°</p> <p>DM28AS 2 at 180°</p> <p>DM29AS 2 at 90°</p> <p>DM32AS 3 at 120°</p> <p>DM39AS 3 at 90°</p> <p>DM49AS 4 at 90°</p> <p><u>RAD drill mounting³</u></p> <p>DM19RAD 1 at 90°</p> <p>DM28RAD 2 at 180°</p> <p>DM29RAD 2 at 90°</p> <p>DM32RAD 3 at 120°</p> <p>DM39RAD 3 at 90°</p> <p>DM49RAD 4 at 90°</p> <p><u>AERIS™ Suspend drill mounting^{3,4}</u></p> <p>DM19AST_ 1 at 90°</p> <p>DM28AST_ 2 at 180°</p> <p>DM29AST_ 2 at 90°</p> <p>DM39AST_ 3 at 90°</p> <p>DM49AST_ 4 at 90°</p> <p><u>OMERO™ Suspend drill mounting^{3,4}</u></p> <p>DM19MRT_ 1 at 90°</p> <p>DM28MRT_ 2 at 180°</p> <p>DM29MRT_ 2 at 90°</p> <p>DM39MRT_ 3 at 90°</p> <p>DM49MRT_ 4 at 90°</p>	<p><u>Shipped installed</u></p> <p>L/AB Less anchor bolts</p> <p>VD Vibration damper</p> <p>TP Tamper resistant handhole cover fasteners</p> <p>HAXy Horizontal arm bracket (1 fixture)^{5,6}</p> <p>FDLxy Festoon outlet less electrical⁵</p> <p>CPL12/xy 1/2" coupling⁵</p> <p>CPL34/xy 3/4" coupling⁵</p> <p>CPL1/xy 1" coupling⁵</p> <p>NPL12/xy 1/2" threaded nipple⁵</p> <p>NPL34/xy 3/4" threaded nipple⁵</p> <p>NPL1/xy 1" threaded nipple⁵</p> <p>EHHxy Extra handhole^{5,7}</p> <p>BAA Buy America(n) Act Compliant⁸</p> <p>UL UL listed with label (Includes NEC compliant cover)</p> <p>NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled)</p>	<p><u>Standard colors</u></p> <p>DDB Dark bronze</p> <p>DWH White</p> <p>DBL Black</p> <p>DMB Medium bronze</p> <p>DNA Natural aluminum</p> <p>BA Brushed aluminum</p> <p><u>Classic colors</u></p> <p>DSS Sandstone</p> <p>DGC Charcoal gray</p> <p>DTG Tennis green</p> <p>DBR Bright red</p> <p>DSB Steel blue</p> <p><u>Class 1 architectural anodized</u></p> <p>ABL Black</p> <p>ADB Dark bronze</p> <p>ANA Natural</p> <p><u>Architectural Colors and Special Finishes⁹</u></p> <p>Duranodic Anodize, Paint over Duranodic Anodize, RAL Colors, Custom Colors and Extended Warranty Finishes available.</p>

NOTES:

- Wall thickness will be signified with a "C", "E" or a "G" in nomenclature. "C" - 0.125 | "E" - 0.156 | "G" - 0.188.
- PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20. The combination includes a required extra handhole.
- The drilling template pattern to be used for a particular luminaire depends on the luminaire that is used. Refer to the Technical Data Section of the Outdoor Binder for Drilling Templates.
- Insert "1" or "2" to designate fixture size; e.g. DM19AST2.
- Specify location and orientation when ordering option.
For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-".
Example: Sft = 5 and 20ft 3in = 20-3
For "y": Specify orientation from handhole
(A,B,C,D) Refer to the Handhole Orientation diagram below.
Example: 1/2" coupling at 5' 8", orientation C = CPL12/5-8C
- Horizontal arm is 18" x 2-3/8" O.D. tenon standard with radius curve providing 12' rise.
- Combination of tenon-top and drill mount includes extra handhole.
- Use when mill certifications are required. Some configurations may be excluded, consult factory.
- Additional colors available; see www.lithonia.com/archcolors or Architectural Colors brochure (Form No. 794.3). Available by formal quote only, consult factory for details.

RSAH Round Straight Aluminum Hinged Poles

TECHNICAL INFORMATION — EPA (ft²) WITH 3-SECOND GUST PER AASHTO 2013																
Series	Mounting Height (ft)	Shaft Base Size	90 MPH	Max. weight	100 MPH	Max. weight	110 MPH	Max. weight	120 MPH	Max. weight	130 MPH	Max. weight	140 MPH	Max. weight	150 MPH	Max. weight
RSAH	8	4C	9.6	50	7.5	50	6	50	4.9	50	4.1	50	3.5	50	3	50
RSAH	10	4C	7.6	50	5.9	50	4.6	50	3.7	50	3.1	50	2.6	50	2.2	50
RSAH	10	5C	12.6	50	10	50	8.2	50	6.8	50	5.7	50	4.9	50	4.2	50
RSAH	12	4C	6	50	4.5	50	3.4	50	2.6	50	2.2	50	1.8	50	1.5	50
RSAH	12	5C	10.3	50	8.1	50	6.5	50	5.4	50	4.5	50	3.8	50	3.3	50
RSAH	12	5E	13.1	50	10.4	50	8.5	50	7	50	5.9	50	5	50	4.3	50
RSAH	12	5G	16	50	12.7	50	10.4	50	8.6	50	7.3	50	6.2	50	5.3	50
RSAH	14	4C	4.7	50	3.4	50	2.4	50	1.7	50	1.4	50	1.1	50	0.9	50
RSAH	14	5C	8.3	50	6.4	50	5.2	50	4.2	50	3.5	50	2.9	50	2.5	50
RSAH	14	5E	10.8	50	8.5	50	6.9	50	5.6	50	4.7	50	4	50	3.4	50
RSAH	14	5G	13.4	50	10.5	50	8.5	50	7.1	50	5.9	50	5	50	4.3	50
RSAH	16	4C	3.5	50	2.3	50	1.5	50	0.9	50	0.7	50	0.5	50	-	50
RSAH	16	5C	6.5	50	4.9	50	3.9	50	3.1	50	2.6	50	2.1	50	1.8	50
RSAH	16	5E	8.7	50	6.7	50	5.4	50	4.4	50	3.6	50	3	50	2.6	50
RSAH	16	5G	10.9	50	8.5	50	6.8	50	5.6	50	4.7	50	3.9	50	3.3	50
RSAH	16	6E	14.2	50	11.3	50	9.2	50	7.6	50	6.4	50	5.4	50	4.6	50
RSAH	16	6G	17.5	50	14	50	11.4	50	9.5	50	7.9	50	6.8	50	5.8	50
RSAH	18	5C	4.9	75	3.6	75	2.8	75	2.2	75	1.7	75	1.4	75	1.1	75
RSAH	18	5E	6.9	75	5.2	75	4.1	75	3.3	75	2.7	75	2.2	75	1.8	75
RSAH	18	5G	8.8	75	6.7	75	5.4	75	4.4	75	3.6	75	3	75	2.5	75
RSAH	18	6G	14.7	75	11.7	75	9.5	75	7.8	75	6.5	75	5.5	75	4.7	75
RSAH	20	5C	3.6	75	2.5	75	1.9	75	1.4	75	1	75	0.8	75	0.6	75
RSAH	20	5E	5.3	75	3.9	75	3	75	2.4	75	1.9	75	1.5	75	1.2	75
RSAH	20	5G	7.1	75	5.3	75	4.2	75	3.3	75	2.7	75	2.2	75	1.8	75
RSAH	20	6E	9.8	75	7.7	75	6.1	75	5	75	4.1	75	3.4	75	2.9	75
RSAH	20	6G	12.3	75	9.8	75	7.9	75	6.4	75	5.4	75	4.5	75	3.8	75

NOTE: EPA values reflect poles without a handhole opening.

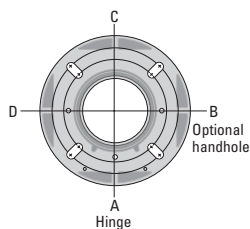
AASHTO 2013 criteria is the most conservative existing EPA calculation. For poles not showing EPA values under AASHTO 2013, EPA values may exist under commercial criteria (see table below).

RSAH Round Straight Aluminum Hinged Poles

TECHNICAL INFORMATION									
Catalog number	Nominal mount ht. (ft)	Pole shaft size (in x ft)	Wall thick (in)	EPA (ft ²) with 1.3 gust			Max. weight (lbs)	Bolt size (in. x in. x in.)	Approximate ship (lbs.)
				80 mph	90 mph	100 mph			
RSAH 8 4C	8	4 x 8	0.125	11.3	8.6	6.8	50	3/4 x 18 x 3	40
RSAH 10 4C	10	4 x 10	0.125	8.2	6.1	4.7	50	3/4 x 18 x 3	44
RSAH 10 5C	10	5 x 10	0.125	13.8	10.8	8.6	50	3/4 x 18 x 3	48
RSAH 12 4C	12	4 x 12	0.125	6.1	4.4	3.3	50	3/4 x 18 x 3	48
RSAH 12 5C	12	5 x 12	0.125	10.5	8.2	6.5	50	3/4 x 18 x 3	53
RSAH 12 5E	12	5 x 12	0.156	13.5	10.5	8.4	50	3/4 x 18 x 3	59
RSAH 12 5G	12	5 x 12	0.188	16.4	12.8	10.2	50	3/4 x 18 x 3	66
RSAH 14 4C	14	4 x 14	0.125	4.4	3	2.1	50	3/4 x 18 x 3	51
RSAH 14 5C	14	5 x 14	0.125	8.1	6.2	4.9	50	3/4 x 18 x 3	57
RSAH 14 5E	14	5 x 14	0.156	10.6	8.2	6.5	50	3/4 x 18 x 3	65
RSAH 14 5G	14	5 x 14	0.188	13	10.1	8	50	3/4 x 18 x 3	73
RSAH 16 4C	16	4 x 16	0.125	3.1	1.9	1.2	50	3/4 x 18 x 3	55
RSAH 16 5C	16	5 x 16	0.125	6.2	4.7	3.6	50	3/4 x 18 x 3	62
RSAH 16 5E	16	5 x 16	0.156	8.3	6.3	5	50	3/4 x 18 x 3	71
RSAH 16 5G	16	5 x 16	0.188	10.4	8	6.3	50	3/4 x 18 x 3	79
RSAH 16 6E	16	6 x 16	0.156	13.8	10.7	8.5	50	3/4 x 18 x 3	79
RSAH 16 6G	16	6 x 16	0.188	17	13.2	10.6	50	3/4 x 18 x 3	90
RSAH 18 5C	18	5 x 18	0.125	4.5	3.3	2.5	75	3/4 x 18 x 3	66
RSAH 18 5E	18	5 x 18	0.156	6.4	4.8	3.7	75	3/4 x 18 x 3	76
RSAH 18 5G	18	5 x 18	0.188	8.2	6.2	4.9	75	3/4 x 18 x 3	86
RSAH 18 6E	18	6 x 18	0.188	14.1	10.9	8.6	75	3/4 x 18 x 3	99
RSAH 20 5C	20	5 x 20	0.125	3.2	2.2	1.6	75	3/4 x 18 x 3	71
RSAH 20 5E	20	5 x 20	0.156	4.8	3.5	2.6	75	3/4 x 18 x 3	82
RSAH 20 5G	20	5 x 20	0.188	6.4	4.8	3.7	75	3/4 x 18 x 3	93
RSAH 20 6E	20	6 x 20	0.156	9.2	7	5.5	75	3/4 x 18 x 3	92
RSAH 20 6G	20	6 x 20	0.188	11.7	9	7.1	75	3/4 x 18 x 3	106

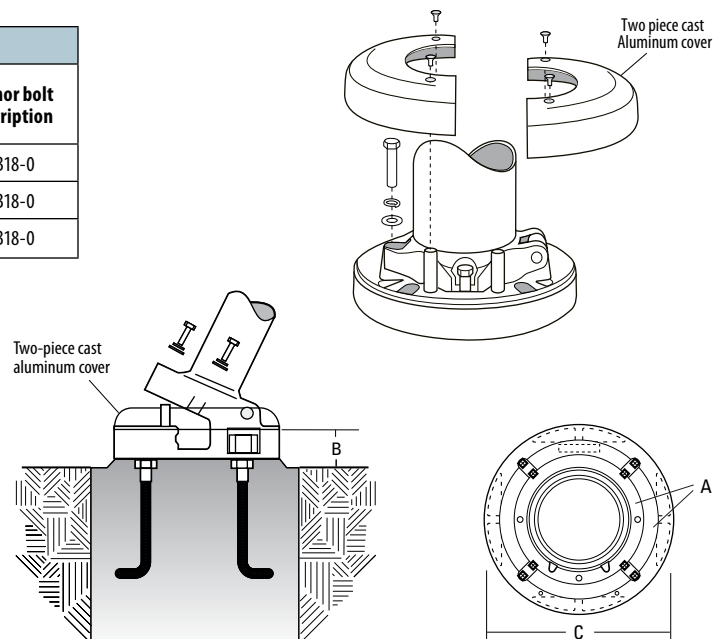
POLE DATA					
Shaft base size	Bolt circle A	Bolt projection B	Base diameter C	Template description	Anchor bolt description
4"	8-1/2" – 10"	3-1/2"	12-5/8"	ABTEMPLATE PJ50060	AB18-0
5"	8-1/2" – 10"	3-1/2"	12-5/8"	ABTEMPLATE PJ50061	AB18-0
6"	8-1/2" – 10"	3-1/2"	12-5/8"	ABTEMPLATE PJ50062	AB18-0

HINGE ORIENTATION



IMPORTANT INSTALLATION NOTES:

- Do not erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use factory template.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.



HYDRA STL Series 120V Exterior LED Light String

Features

- Ideal for decorative lighting above patios, walkways and plazas
- Includes replaceable 120V medium-base LED lamps
- Available with 1800K clear lamps, 2000K clear lamps, 2700K clear lamps or 2700K frosted lamps
- Consumes only 2W per lamp
- Standard 12", 18" or 24" lamp spacing (Consult factory for custom spacing)
- ETL Listed for wet location
- Maximum 500 feet per circuit based on 12" lamp spacing.
- Intended for lamp-down applications only
- Aircraft cable included (must be installed with aircraft cable)

AIRCRAFT CABLE:

- Galvanized steel
- Tensile strength 480 lbs
- 0.0625" diameter

WIRE: UL Listed, 12AWG Stranded Copper, Black PVC Insulation, Rated 150V

SOCKET: UL Listed, black phenolic Medium Base, Rated 250V 60W

GAMMA LED LAMP (Included):

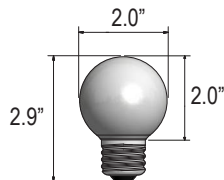
- 120V
- Medium base (E26)
- 1800K Clear
- 2000K Clear
- 2700K Clear
- 2700K Frosted
- 25,000 hours average rated life
- 2.0W each
- Not recommended for dimming
- Consult factory for shatter proof coating

Light String Weight

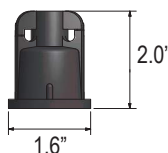
Per ft including light string, aircraft cable and LED lamp

12" on center	3.12 oz per ft.
18" on center	2.45 oz per ft.
24" on center	2.12 oz per ft.

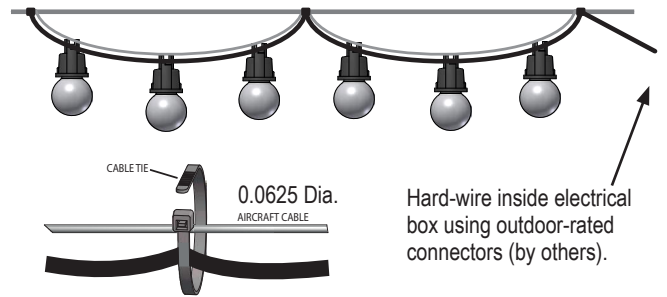
GAMMA LED Lamp Detail



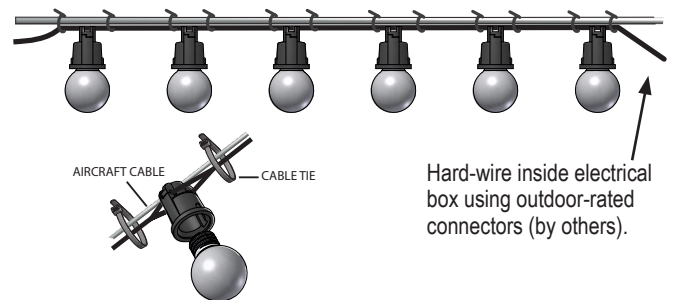
Socket Detail



HYDRA STL shown mounted to aircraft cable. Ensure that aircraft cable is taut and secured. Specify cable ties. Use at least one cable tie every 6 feet.



HYDRA STL shown mounted with no drop, to aircraft cable (included). Ensure that aircraft cable is taut and secured. Specify cable ties. Use two cable ties per socket; one on each side.



Footcandle Summary (Based on one Gamma LED lamp)

1800K Clear Lamp	2000K Clear Lamp	2700K Clear Lamp	2700K Frosted Lamp
distance	distance	distance	distance
12" 5.53	12" 5.65	12" 5.95	12" 10.40
24" 2.46	24" 2.12	24" 2.05	24" 3.91
36" 1.43	36" 1.00	36" 1.02	36" 2.08
48" 0.91	48" 0.59	48" 0.62	48" 1.28
60" 0.65	60" 0.40	60" 0.43	60" 0.89
72" 0.49	72" 0.30	72" 0.32	72" 0.66
84" 0.38	84" 0.26	84" 0.26	84" 0.50
96" 0.31	96" 0.24	96" 0.25	96" 0.42

How to Specify HYDRA STL Series

HYA - STL - AC -

GAMMA LED Lamp		Socket Spacing	
GC18	1800K LED clear globe	12	12" on center
GC20	2000K LED clear globe	18	18" on center
GC27	2700K LED clear globe	24	24" on center
GF27	2700K LED frosted globe	Consult factory for custom spacing	
NL	No Lamps		
GC18		24	

Example

HYA - STL - AC -

Mounting Plate with Cable Tie

(STL-MC)

Order at least one set per 6ft of HYDRA STL when mounting to flat surface.



Cable Ties

(STL-CT)

Order at least one per 6ft of HYDRA STL if mounting with drop to aircraft cable. Order at least two per socket if mounting with no drop to aircraft cable.



Aircraft Cable

(STL-AC)

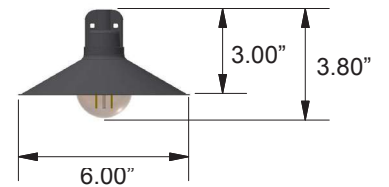
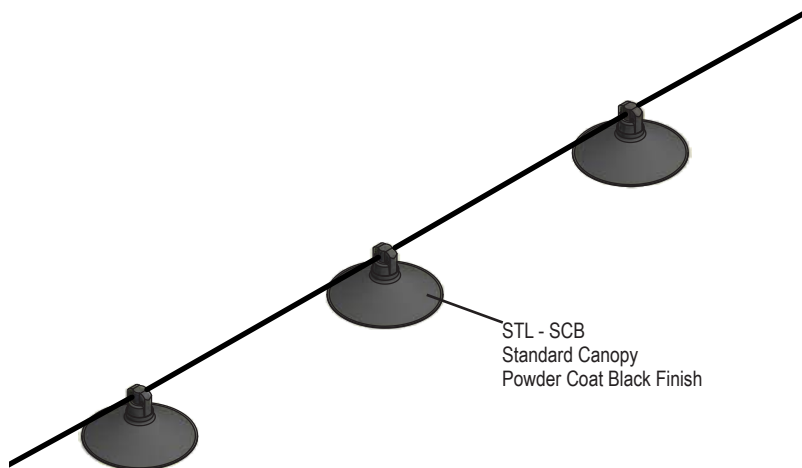
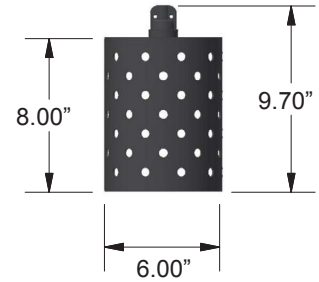
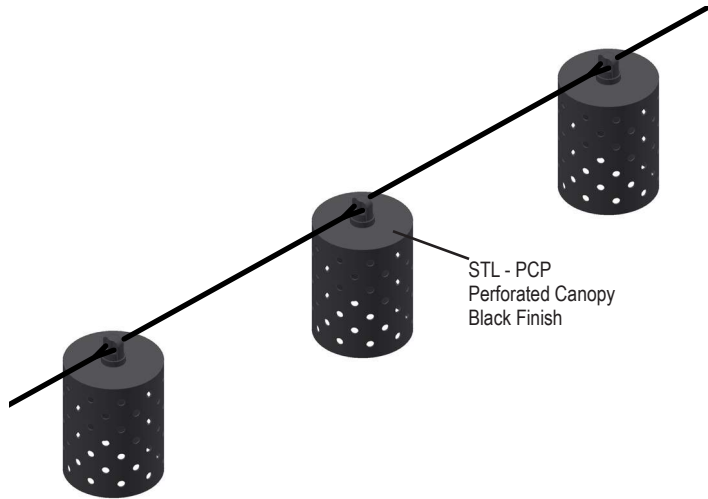
Aircraft Cable is included up to the total length of HYDRA STL ordered. If extra cable is needed, order STL-AC with desired length.

0.0625 Dia.

AIRCRAFT CABLE

Accessories

Lamp accessories are assembled at factory and must be specified when ordering





D-Series Size 2 LED Area Luminaire



Catalog
Number

Notes

Type

LDC
University Place
Mall
Proj.# 180.02

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA: 1.1 ft²
(0.10 m²)

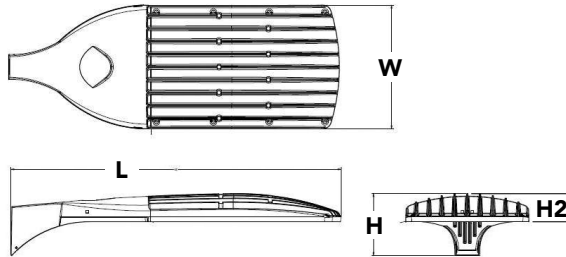
Length: 40"
(101.6 cm)

Width: 15"
(38.1 cm)

Height 1: 7-1/4"
(18.4 cm)

Height 2: (max): 3.5"

Weight: 36lbs



Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. The Size 2 is ideal for replacing 400-1000W metal halide in area lighting applications with energy savings of up to 80% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX2 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX2 LED						
Series	LEDs	Color temperature	Distribution	Voltage	Mounting	
DSX2 LED	Forward optics	30K 3000 K	T1S Type I Short (Automotive)	T5VS Type V Very Short ³	MVOLT ⁵	Shipped included
	P1 P5 ¹	40K 4000 K	T2S Type II Short	T5S Type V Short ³	XVOLT (277V-480V) ^{6,7,8}	SPA Square pole mounting
	P2 P6	50K 5000 K	T2M Type II Medium	T5M Type V Medium ³	120 ⁹	RPA Round pole mounting ¹⁰
	P3 P7 ¹		T3S Type III Short	T5W Type V Wide ³	208 ⁹	WBA Wall bracket ³
	P4 P8 ¹		T3M Type III Medium	BLC Backlight control ⁴	240 ⁹	SPUMBA Square pole universal mounting adaptor ¹¹
	Rotated optics		T4M Type IV Medium	LCCO Left corner cutoff ⁴	277 ⁹	RPUMBA Round pole universal mounting adaptor ¹¹
	P10 ² P13 ^{1,2}		TFTM Forward Throw Medium	RCCO Right corner cutoff ⁴	347 ⁹	Shipped separately
	P11 ² P14 ^{1,2}				480 ⁹	KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ¹⁰
	P12 ²					

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 nLight AIR generation 2 enabled ¹³ PIRHN Network, Bi-Level motion/ambient sensor ¹⁴ PER NEMA twist-lock receptacle only (no controls) ¹⁵ PER5 Five-wire receptacle only (no controls) ^{15,16} PER7 Seven-wire receptacle only (no controls) ^{15,16} DMG 0-10V dimming extend out back of housing for external control (no controls) ¹⁷ DS Dual switching ^{18,19}	Shipped installed HS House-side shield ²² SF Single fuse (120, 277, 347V) ⁹ DF Double fuse (208, 240, 480V) ⁹ L90 Left rotated optics ² R90 Right rotated optics ² HA 50°C ambient operations ¹ BAA Buy America(n) Act Compliant Shipped separately BS Bird spikes ²³ EGS External glare shield	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white



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Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁴
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁴
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁴
DSHORT SBK U	Shorting cap ²⁴
DSX2HS 80C U	House-side shield for 80 LED unit ²²
DSX2HS 90C U	House-side shield for 90 LED unit ²²
DSX2HS 100C U	House-side shield for 100 LED unit ²²
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) ²⁵
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) ¹²
DSX2EGS (FINISH) U	External glare shield

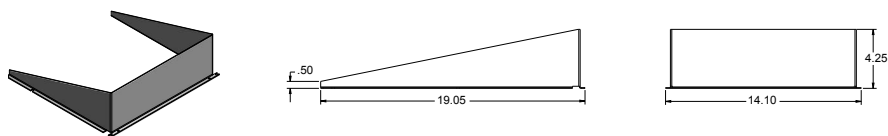
For more control options, visit [DTL](#) and [ROAM](#) online.

NOTES

- 1 HA not available with P5, P7, P8, P13, and P14.
- 2 P10, P11, P12, P13 or P14 and rotated optics (L90, R90) only available together.
- 3 Any Type 5 distribution with photocell, is not available with WBA.
- 4 Not available with HS.
- 5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 6 XVOLT is only suitable for use with P5, P6, P7, P8, P13 and P14.
- 7 XVOLT works with any voltage between 277V and 480V.
- 8 XVOLT not available with fusing (SF or DF) and not available with PIRH or PIRH1FC3V.
- 9 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 10 Suitable for mounting to round poles between 3.5" and 12" diameter.
- 11 Universal mounting bracket intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31. Only usable when pole's drill pattern is NOT Lithonia template #8.
- 12 Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" diameter mast arm (not included).
- 13 Must be ordered with NLTAR2. Sensor cover only available in dark bronze, black, white or natural aluminum color.
- 14 Must be ordered with NLTAR2. For more information on nLight Air 2 visit [this link](#).
- 15 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting Cap included.
- 16 If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming.
- 17 DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIRH1FC3V or PIRH1FC3V, FAO.
- 18 Requires (2) separately switched circuits with isolated neutrals.
- 19 Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available with P1, P2, P10.
- 20 Reference Controls Options table settings table on page 4. Reference Motion Sensor Default table on page 4 to see functionality.
- 21 Reference controls options table on page 4.
- 22 Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessories; see Accessories information.
- 23 Must be ordered with fixture for factory pre-drilling.
- 24 Requires luminaire to be specified with PER, PER5 and PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.
- 25 For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8.

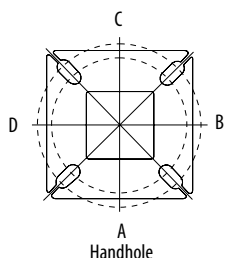
Options

EGS - External Glare Shield

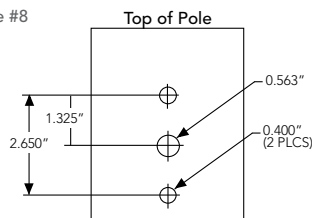


Drilling

HANDHOLE ORIENTATION



Template #8



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

DSX2 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX2 LED	1.100	2.200	2.120	3.300	2.850	4.064

	Drilling Template	Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"



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To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 2 homepage](#).

LEGEND

- 0.1 fc
- 0.5 fc
- 1.0 fc

Figure 10 displays 16 contour plots arranged in a 4x4 grid, showing the spatial distribution of the first-order Sobol' index for different test cases. The plots are labeled as follows:

- Row 1: T1S, T2M, T2S, T3M
- Row 2: T3S, T4M, TFTM, T5S
- Row 3: T5S, T5M, T5W, BLC
- Row 4: LCCO, RCCO

The legend indicates the color coding for the first-order Sobol' index:

- 0.1 fc (Green)
- 0.5 fc (Blue)
- 1.0 fc (Light Blue)

Each plot shows the spatial distribution of the first-order Sobol' index for a specific test case. The plots are arranged in a 4x4 grid, with the first three rows containing four plots each and the fourth row containing two plots. The plots show the spatial distribution of the first-order Sobol' index for different test cases, with the index value ranging from 0.1 to 1.0. The plots are labeled with the test case name (e.g., T1S, T2M, T2S, T3M, T3S, T4M, TFTM, T5S, T5S, T5M, T5W, BLC, LCCO, RCCO) and the test number (e.g., Test No. LTL22425P1, Test No. LTL22428P1, Test No. LTL22430P1, Test No. LTL22434P1, Test No. LTL22428P1, Test No. LTL22430P1, Test No. LTL22425P1, Test No. LTL22434P1).

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C	1.04
5°C	1.04
10°C	1.03
15°C	1.02
20°C	1.01
25°C	1.00
30°C	0.99
35°C	0.98
40°C	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25000	50000	100000
Lumen Maintenance Factor	1.00	0.96	0.92	0.85

Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	80	530	140	1.18	0.68	0.59	0.51	0.40	0.32
	P2	80	700	185	1.56	0.90	0.78	0.66	0.52	0.39
	P3	80	850	217	1.82	1.05	0.90	0.80	0.63	0.48
	P4	80	1050	270	2.27	1.31	1.12	0.99	0.79	0.59
	P5	80	1250	321	2.68	1.54	1.34	1.17	0.93	0.68
	P6	100	1050	343	2.89	1.66	1.59	1.37	1.00	0.71
	P7	100	1250	398	3.31	1.91	1.66	1.45	1.16	0.81
	P8	100	1350	431	3.61	2.07	1.81	1.57	1.25	0.91
Rotated Optics (Requires L90 or R90)	P10	90	530	156	1.30	0.76	0.65	0.62	0.45	0.32
	P11	90	700	207	1.75	1.01	0.87	0.74	0.60	0.46
	P12	90	850	254	2.12	1.22	1.06	0.94	0.73	0.55
	P13	90	1200	344	2.88	1.65	1.44	1.25	1.00	0.73
	P14	90	1400	405	3.39	1.95	1.71	1.48	1.18	0.86

Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use when motion sensor is used as dusk to dawn control.

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptical	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSBGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
80	530	P1	140W	T1S	17,575	3	0	3	126	18,933	3	0	3	135	19,173	3	0	3	137
				T2S	17,556	3	0	3	125	18,913	3	0	3	135	19,152	3	0	3	137
				T2M	17,647	3	0	3	126	19,010	3	0	3	136	19,251	3	0	3	138
				T3S	17,090	3	0	3	122	18,411	3	0	3	132	18,644	3	0	3	133
				T3M	17,604	3	0	3	126	18,964	3	0	3	135	19,204	3	0	3	137
				T4M	17,221	3	0	3	123	18,552	3	0	4	133	18,787	3	0	4	134
				TFTM	17,593	3	0	3	126	18,952	3	0	4	135	19,192	3	0	4	137
				TSVS	18,297	4	0	1	131	19,711	4	0	1	141	19,961	4	0	1	143
				T5S	18,312	4	0	2	131	19,727	4	0	2	141	19,977	4	0	2	143
				T5M	18,266	4	0	2	130	19,677	4	0	2	141	19,926	4	0	2	142
				TSW	18,146	5	0	3	130	19,548	5	0	3	140	19,796	5	0	3	141
				BLC	14,424	2	0	2	103	15,539	2	0	3	111	15,736	2	0	3	112
				LCCO	10,733	1	0	3	77	11,562	1	0	3	83	11,709	2	0	3	84
				RCCO	10,733	1	0	3	77	11,562	1	0	3	83	11,709	2	0	3	84
80	700	P2	185W	T1S	22,305	3	0	3	121	24,029	3	0	3	130	24,333	3	0	3	132
				T2S	22,281	3	0	4	120	24,003	3	0	4	130	24,307	3	0	4	131
				T2M	22,396	3	0	3	121	24,127	3	0	3	130	24,432	3	0	3	132
				T3S	21,690	3	0	4	117	23,366	3	0	4	126	23,662	3	0	4	128
				T3M	22,342	3	0	4	121	24,068	3	0	4	130	24,373	3	0	4	132
				T4M	21,857	3	0	4	118	23,545	3	0	4	127	23,844	3	0	4	129
				TFTM	22,328	3	0	4	121	24,054	3	0	4	130	24,358	3	0	4	132
				TSVS	23,222	5	0	1	126	25,016	5	0	1	135	25,333	5	0	1	137
				T5S	23,241	4	0	2	126	25,037	4	0	2	135	25,354	4	0	2	137
				T5M	23,182	5	0	3	125	24,974	5	0	3	135	25,290	5	0	3	137
				TSW	23,030	5	0	4	124	24,810	5	0	4	134	25,124	5	0	4	136
				BLC	18,307	2	0	3	99	19,721	2	0	3	107	19,971	2	0	3	108
				LCCO	13,622	2	0	3	74	14,674	2	0	4	79	14,860	2	0	4	80
				RCCO	13,622	2	0	3	74	14,674	2	0	4	79	14,860	2	0	4	80
80	850	P3	217W	T1S	26,202	3	0	3	121	28,226	3	0	3	130	28,584	3	0	3	132
				T2S	26,174	3	0	4	121	28,196	3	0	4	130	28,553	3	0	4	132
				T2M	26,309	3	0	3	121	28,342	3	0	3	131	28,700	3	0	3	132
				T3S	25,479	3	0	4	117	27,448	3	0	4	126	27,795	3	0	4	128
				T3M	26,245	3	0	4	121	28,273	3	0	4	130	28,631	3	0	4	132
				T4M	25,675	3	0	4	118	27,659	3	0	4	127	28,009	3	0	4	129
				TFTM	26,229	3	0	4	121	28,255	3	0	4	130	28,613	3	0	4	132
				TSVS	27,279	5	0	1	126	29,387	5	0	1	135	29,759	5	0	1	137
				T5S	27,301	4	0	2	126	29,410	5	0	2	136	29,783	5	0	2	137
				T5M	27,232	5	0	3	125	29,336	5	0	3	135	29,707	5	0	3	137
				TSW	27,053	5	0	4	125	29,144	5	0	4	134	29,513	5	0	4	136
				BLC	21,504	2	0	3	99	23,166	2	0	3	107	23,459	2	0	4	108
				LCCO	16,001	2	0	4	74	17,238	2	0	4	79	17,456	2	0	4	80
				RCCO	16,001	2	0	4	74	17,238	2	0	4	79	17,456	2	0	4	80
80	1050	P4	270W	T1S	30,963	4	0	4	115	33,355	4	0	4	124	33,777	4	0	4	125
				T2S	30,930	4	0	4	115	33,320	4	0	4	123	33,742	4	0	4	125
				T2M	31,089	3	0	4	115	33,491	3	0	4	124	33,915	3	0	4	126
				T3S	30,108	4	0	4	112	32,435	4	0	5	120	32,845	4	0	5	122
				T3M	31,014	3	0	4	115	33,410	3	0	4	124	33,833	3	0	4	125
				T4M	30,340	3	0	5	112	32,684	3	0	5	121	33,098	3	0	5	123
				TFTM	30,995	3	0	5	115	33,390	3	0	5	124	33,812	3	0	5	125
				TSVS	32,235	5	0	1	119	34,726	5	0	1	129	35,166	5	0	1	130
				T5S	32,261	5	0	2	119	34,754	5	0	2	129	35,194	5	0	2	130
				T5M	32,180	5	0	4	119	34,667	5	0	4	128	35,105	5	0	4	130
				TSW	31,969	5	0	4	118	34,439	5	0	5	128	34,875	5	0	5	129
				BLC	25,412	2	0	4	94	27,376	2	0	4	101	27,722	2	0	4	103
				LCCO	18,909	2	0	4	70	20,370	2	0	4	75	20,628	2	0	4	76
				RCCO	18,909	2	0	4	70	20,370	2	0	4	75	20,628	2	0	4	76

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
80	1250	P5	321W	T1S	35,193	4	0	4	110	37,912	4	0	4	118	38,392	4	0	4	120
				T2S	35,155	4	0	5	110	37,872	4	0	5	118	38,351	4	0	5	119
				T2M	35,336	4	0	4	110	38,067	4	0	4	119	38,549	4	0	4	120
				T3S	34,222	4	0	5	107	36,866	4	0	5	115	37,333	4	0	5	116
				T3M	35,251	3	0	4	110	37,974	3	0	5	118	38,455	4	0	5	120
				T4M	34,485	3	0	5	107	37,149	4	0	5	116	37,620	4	0	5	117
				TFTM	35,229	3	0	5	110	37,951	3	0	5	118	38,431	3	0	5	120
				TSVS	36,639	5	0	1	114	39,470	5	0	1	123	39,970	5	0	1	125
				T5S	36,669	5	0	2	114	39,502	5	0	2	123	40,002	5	0	2	125
				T5M	36,576	5	0	4	114	39,403	5	0	4	123	39,901	5	0	4	124
				TSW	36,336	5	0	5	113	39,144	5	0	5	122	39,640	5	0	5	123
				BLC	28,884	3	0	4	90	31,115	3	0	4	97	31,509	3	0	4	98
				LCCO	21,492	2	0	4	67	23,153	2	0	5	72	23,446	3	0	5	73
				RCCO	21,492	2	0	4	67	23,153	2	0	5	72	23,446	3	0	5	73
100	1050	P6	343W	T1S	37,824	4	0	4	110	40,747	4	0	4	119	41,263	4	0	4	120
				T2S	37,784	4	0	5	110	40,704	4	0	5	119	41,219	4	0	5	120
				T2M	37,979	4	0	4	111	40,913	4	0	4	119	41,431	4	0	4	121
				T3S	36,780	4	0	5	107	39,623	4	0	5	116	40,124	4	0	5	117
				T3M	37,886	3	0	5	110	40,814	4	0	5	119	41,331	4	0	5	120
				T4M	37,063	4	0	5	108	39,927	4	0	5	116	40,433	4	0	5	118
				TFTM	37,863	3	0	5	110	40,789	4	0	5	119	41,305	4	0	5	120
				TSVS	39,379	5	0	1	115	42,422	5	0	1	124	42,959	5	0	1	125
				T5S	39,411	5	0	2	115	42,456	5	0	2	124	42,993	5	0	2	125
				T5M	39,311	5	0	4	115	42,349	5	0	4	123	42,885	5	0	4	125
				TSW	39,053	5	0	5	114	42,071	5	0	5	123	42,604	5	0	5	124
				BLC	31,043	3	0	4	91	33,442	3	0	4	97	33,865	3	0	4	99
				LCCO	23,099	2	0	5	67	24,884	3	0	5	73	25,199	3	0	5	73
				RCCO	23,099	2	0	5	67	24,884	3	0	5	73	25,199	3	0	5	73
100	1250	P7	398W	T1S	42,599	4	0	4	107	45,890	4	0	4	115	46,471	4	0	4	117
				T2S	42,553	4	0	5	107	45,842	4	0	5	115	46,422	4	0	5	117
				T2M	42,773	4	0	4	107	46,078	4	0	4	116	46,661	4	0	5	117
				T3S	41,423	4	0	5	104	44,624	4	0	5	112	45,189	4	0	5	114
				T3M	42,669	4	0	5	107	45,966	4	0	5	115	46,548	4	0	5	117
				T4M	41,742	4	0	5	105	44,967	4	0	5	113	45,537	4	0	5	114
				TFTM	42,643	4	0	5	107	45,938	4	0	5	115	46,519	4	0	5	117
				TSVS	44,350	5	0	1	111	47,777	5	0	1	120	48,381	5	0	1	122
				T5S	44,385	5	0	2	112	47,815	5	0	3	120	48,420	5	0	3	122
				T5M	44,273	5	0	4	111	47,695	5	0	4	120	48,298	5	0	4	121
				TSW	43,983	5	0	5	111	47,382	5	0	5	119	47,982	5	0	5	121
				BLC	34,962	3	0	4	88	37,664	3	0	5	95	38,140	3	0	5	96
				LCCO	26,015	3	0	5	65	28,025	3	0	5	70	28,380	3	0	5	71
				RCCO	26,015	3	0	5	65	28,025	3	0	5	70	28,380	3	0	5	71
100	1350	P8	448W	T1S	45,610	4	0	4	106	49,135	4	0	4	114	49,757	4	0	4	115
				T2S	45,562	4	0	5	106	49,083	4	0	5	114	49,704	4	0	5	115
				T2M	45,797	4	0	4	106	49,336	4	0	5	114	49,960	4	0	5	116
				T3S	44,352	4	0	5	103	47,779	4	0	5	111	48,384	4	0	5	112
				T3M	45,686	4	0	5	106	49,216	4	0	5	114	49,839	4	0	5	116
				T4M	44,693	4	0	5	104	48,147	4	0	5	112	48,756	4	0	5	113
				TFTM	45,657	4	0	5	106	49,186	4	0	5	114	49,808	4	0	5	116
				TSVS	47,485	5	0	1	110	51,155	5	0	1	119	51,802	5	0	1	120
				T5S	47,524	5	0	3	110	51,196	5	0	3	119	51,844	5	0	3	120
				T5M	47,404	5	0	4	110	51,067	5	0	5	118	51,713	5	0	5	120
				TSW	47,093	5	0	5	109	50,732	5	0	5	118	51,374	5	0	5	119
				BLC	37,434	3	0	5	87	40,326	3	0	5	94	40,837	3	0	5	95
				LCCO	27,854	3	0	5	65	30,006	3	0	5	70	30,386	3	0	5	71
				RCCO	27,854	3	0	5	65	30,006	3	0	5	70	30,386	3	0	5	71

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics																			
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
90	530	P10	156W	T1S	20,145	4	0	4	129	21,702	4	0	4	139	21,977	4	0	4	141
				T2S	20,029	4	0	4	128	21,577	4	0	4	138	21,850	4	0	4	140
				T2M	20,391	4	0	4	131	21,967	4	0	4	141	22,245	4	0	4	143
				T3S	19,719	4	0	4	126	21,242	4	0	4	136	21,511	4	0	4	138
				T3M	20,379	4	0	4	131	21,954	4	0	4	141	22,232	4	0	4	143
				T4M	19,995	4	0	4	128	21,540	4	0	4	138	21,812	5	0	5	140
				TFTM	20,511	4	0	4	131	22,096	5	0	5	142	22,376	5	0	5	143
				TSVS	20,655	4	0	1	132	22,251	4	0	1	143	22,533	4	0	1	144
				T5S	20,482	4	0	2	131	22,064	4	0	2	141	22,343	4	0	2	143
				T5M	20,477	5	0	3	131	22,059	5	0	3	141	22,338	5	0	3	143
				TSW	20,293	5	0	3	130	21,861	5	0	3	140	22,138	5	0	3	142
				BLC	16,846	4	0	4	108	18,148	4	0	4	116	18,378	4	0	4	118
				LCCO	12,032	2	0	3	77	12,961	2	0	3	83	13,125	2	0	3	84
				RCCO	12,016	4	0	4	77	12,944	4	0	4	83	13,108	4	0	4	84
90	700	P11	207W	T1S	25,518	4	0	4	123	27,490	4	0	4	133	27,837	4	0	4	134
				T2S	25,371	5	0	5	123	27,331	5	0	5	132	27,677	5	0	5	134
				T2M	25,829	4	0	4	125	27,825	4	0	4	134	28,177	4	0	4	136
				T3S	24,977	5	0	5	121	26,907	5	0	5	130	27,248	5	0	5	132
				T3M	25,814	5	0	5	125	27,809	5	0	5	134	28,161	5	0	5	136
				T4M	25,327	5	0	5	122	27,284	5	0	5	132	27,629	5	0	5	133
				TFTM	25,981	5	0	5	126	27,989	5	0	5	135	28,343	5	0	5	137
				TSVS	26,164	5	0	1	126	28,185	5	0	1	136	28,542	5	0	1	138
				T5S	25,943	4	0	2	125	27,948	5	0	2	135	28,302	5	0	2	137
				T5M	25,937	5	0	3	125	27,941	5	0	3	135	28,295	5	0	3	137
				TSW	25,704	5	0	4	124	27,691	5	0	4	134	28,041	5	0	4	135
				BLC	21,339	4	0	4	103	22,988	4	0	4	111	23,279	4	0	4	112
				LCCO	15,240	2	0	4	74	16,418	2	0	4	79	16,626	2	0	4	80
				RCCO	15,220	5	0	5	74	16,396	5	0	5	79	16,604	5	0	5	80
90	850	P12	254W	T1S	29,912	4	0	4	118	32,223	4	0	4	127	32,631	5	0	4	128
				T2S	29,740	5	0	5	117	32,038	5	0	5	126	32,443	5	0	5	128
				T2M	30,277	4	0	4	119	32,616	5	0	5	128	33,029	5	0	5	130
				T3S	29,278	5	0	5	115	31,540	5	0	5	124	31,940	5	0	5	126
				T3M	30,259	5	0	5	119	32,597	5	0	5	128	33,010	5	0	5	130
				T4M	29,688	5	0	5	117	31,982	5	0	5	126	32,387	5	0	5	128
				TFTM	30,455	5	0	5	120	32,808	5	0	5	129	33,224	5	0	5	131
				TSVS	30,669	5	0	1	121	33,039	5	0	1	130	33,457	5	0	1	132
				T5S	30,411	5	0	2	120	32,761	5	0	2	129	33,176	5	0	2	131
				T5M	30,404	5	0	3	120	32,753	5	0	4	129	33,168	5	0	4	131
				TSW	30,131	5	0	4	119	32,459	5	0	4	128	32,870	5	0	4	129
				BLC	25,013	4	0	4	98	26,946	4	0	4	106	27,287	4	0	4	107
				LCCO	17,865	2	0	4	70	19,245	2	0	4	76	19,489	2	0	4	77
				RCCO	17,841	5	0	5	70	19,220	5	0	5	76	19,463	5	0	5	77
90	1200	P13	344W	T1S	38,768	5	0	5	113	41,764	5	0	5	121	42,292	5	0	5	123
				T2S	38,545	5	0	5	112	41,523	5	0	5	121	42,049	5	0	5	122
				T2M	39,241	5	0	5	114	42,273	5	0	5	123	42,808	5	0	5	124
				T3S	37,947	5	0	5	110	40,879	5	0	5	119	41,396	5	0	5	120
				T3M	39,218	5	0	5	114	42,249	5	0	5	123	42,783	5	0	5	124
				T4M	38,478	5	0	5	112	41,451	5	0	5	120	41,976	5	0	5	122
				TFTM	39,472	5	0	5	115	42,522	5	0	5	124	43,060	5	0	5	125
				TSVS	39,749	5	0	1	116	42,821	5	0	1	124	43,363	5	0	1	126
				T5S	39,415	5	0	2	115	42,461	5	0	2	123	42,998	5	0	2	125
				T5M	39,405	5	0	4	115	42,450	5	0	4	123	42,988	5	0	4	125
				TSW	39,052	5	0	5	114	42,069	5	0	5	122	42,602	5	0	5	124
				BLC	32,419	5	0	5	94	34,925	5	0	5	102	35,367	5	0	5	103
				LCCO	23,154	3	0	5	67	24,943	3	0	5	73	25,259	3	0	5	73
				RCCO	23,124	5	0	5	67	24,910	5	0	5	72	25,226	5	0	5	73
90	1400	P14	405W	T1S	42,867	5	0	5	106	46,180	5	0	5	114	46,764	5	0	5	115
				T2S	42,621	5	0	5	105	45,914	5	0	5	113	46,495	5	0	5	115
				T2M	43,390	5	0	5	107	46,743	5	0	5	115	47,335	5	0	5	117
				T3S	41,959	5	0	5	104	45,201	5	0	5	112	45,773	5	0	5	113
				T3M	43,365	5	0	5	107	46,716	5	0	5	115	47,307	5	0	5	117
				T4M	42,547	5	0	5	105	45,834	5	0	5	113	46,414	5	0	5	115
				TFTM	43,646	5	0	5	108	47,018	5	0	5	116	47,614	5	0	5	118
				TSVS	43,952	5	0	1	109	47,349	5	0	1	117	47,948	5	0	1	118
				T5S	43,583	5	0	2	108	46,950	5	0	2	116	47,545	5	0	2	117
				T5M	43,572	5	0	4	108	46,939	5	0	4	116	47,533	5	0	4	117
				TSW	43,181	5	0	5	107	46,518	5	0	5	115	47,107	5	0	5	116
				BLC	35,847	5	0	5	89	38,617	5	0	5	95	39,106	5	0	5	97
				LCCO	25,602	3	0	5	63	27,580	3	0	5	68	27,930	3	0	5	69
				RCCO	25,569	5	0	5	63	27,544	5	0	5	68	27,893	5	0	5	69

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.1 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. The D-Series Size 2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hrs at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 2 to withstand up to a 2.0 G vibration load rating per ANSI C136.31. The D-Series Size 2 utilizes the AERIS™ series pole drilling pattern (Template #8). NEMA photocontrol receptacle is available.

STANDARD CONTROLS

The DSX2 LED area luminaire has a number of control options. DSX Size 2, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX2 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D670,857 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

BUY AMERICAN

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.





D-Series Size 2 LED Area Luminaire



d²series

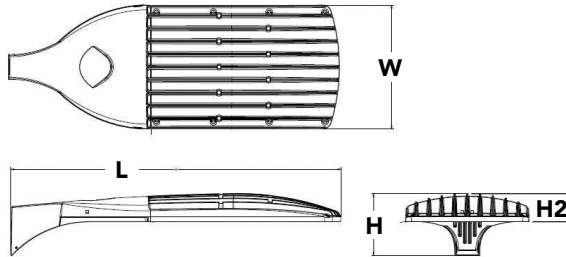
LDC	FXM6
University Place Mall	
Proj.# 180.02	

Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA:	1.1 ft ² (0.10 m ²)
Length:	40" (101.6 cm)
Width:	15" (38.1 cm)
Height 1:	7-1/4" (18.4 cm)
Height 2: (max):	3.5"
Weight:	36lbs



Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. The Size 2 is ideal for replacing 400-1000W metal halide in area lighting applications with energy savings of up to 80% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX2 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX2 LED					
Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX2 LED	Forward optics P1 P5 ¹ P2 P6 P3 P7 ¹ P4 P8 ¹ Rotated optics P10 ² P13 ^{1,2} P11 ² P14 ^{1,2} P12 ²	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I Short (Automotive) T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium T5VS Type V Very Short ³ T5S Type V Short ³ T5M Type V Medium ³ T5W Type V Wide ³ BLC Backlight control ⁴ LCCO Left corner cutoff ⁴ RCCO Right corner cutoff ⁴	MVOLT ⁵ XVOLT (277V-480V) ^{6,7,8} 120 ⁹ 208 ⁹ 240 ⁹ 277 ⁹ 347 ⁹ 480 ⁹	Shipped included SPA Square pole mounting RPA Round pole mounting ¹⁰ WBA Wall bracket ³ SPUMBA Square pole universal mounting adaptor ¹¹ RPUMBA Round pole universal mounting adaptor ¹¹ Shipped separately KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ¹⁰

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 nLight AIR generation 2 enabled ¹³ PIRHN Network, Bi-Level motion/ambient sensor ¹⁴ PER NEMA twist-lock receptacle only (no controls) ¹⁵ PER5 Five-wire receptacle only (no controls) ^{15,16} PER7 Seven-wire receptacle only (no controls) ^{15,16} DMG 0-10V dimming extend out back of housing for external control (no controls) ¹⁷ DS Dual switching ^{18,19}	Shipped installed HS House-side shield ²² SF Single fuse (120, 277, 347V) ⁹ DF Double fuse (208, 240, 480V) ⁹ L90 Left rotated optics ² R90 Right rotated optics ² HA 50°C ambient operations ¹ BAA Buy America(n) Act Compliant Shipped separately BS Bird spikes ²³ EGS External glare shield	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁴
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁴
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁴
DSHORT SBK U	Shorting cap ²⁴
DSX2HS 80C U	House-side shield for 80 LED unit ²²
DSX2HS 90C U	House-side shield for 90 LED unit ²²
DSX2HS 100C U	House-side shield for 100 LED unit ²²
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) ²⁵
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) ¹²
DSX2EGS (FINISH) U	External glare shield

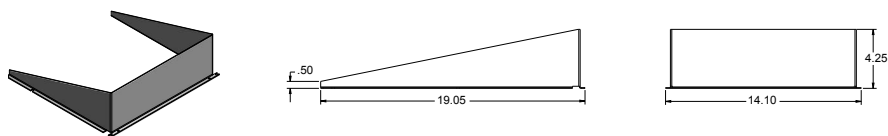
For more control options, visit [DTL](#) and [ROAM](#) online.

NOTES

- HA not available with P5, P7, P8, P13, and P14.
- P10, P11, P12, P13 or P14 and rotated optics (L90, R90) only available together.
- Any Type 5 distribution with photocell, is not available with WBA.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- XVOLT is only suitable for use with P5, P6, P7, P8, P13 and P14.
- XVOLT works with any voltage between 277V and 480V.
- XVOLT not available with fusing (SF or DF) and not available with PIRH or PIRH1FC3V.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Suitable for mounting to round poles between 3.5" and 12" diameter.
- Universal mounting bracket intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31. Only usable when pole's drill pattern is NOT Lithonia template #8.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" diameter mast arm (not included).
- Must be ordered with NLTAIR2. Sensor cover only available in dark bronze, black, white or natural aluminum color.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting Cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming.
- DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIRH1FC3V or PIRH1FC3V, FAO.
- Requires (2) separately switched circuits with isolated neutrals.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available with P1, P2, P10.
- Reference Controls Options table settings table on page 4. Reference Motion Sensor Default table on page 4 to see functionality.
- Reference controls options table on page 4.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessories; see Accessories information.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 and PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.
- For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8.

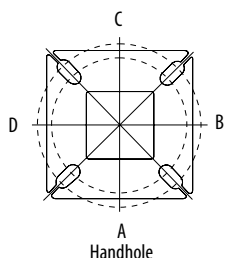
Options

EGS - External Glare Shield



Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

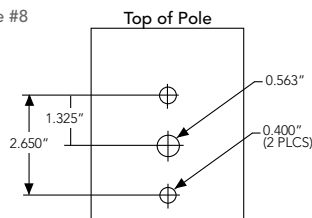
DSX2 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX2 LED	1.100	2.200	2.120	3.300	2.850	4.064

	Drilling Template	Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

Template #8



To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 2 homepage](#).

LEGEND

- 0.1 fc
- 0.5 fc
- 1.0 fc

Figure 10 displays 16 contour plots arranged in a 4x4 grid, showing the spatial distribution of the first-order Sobol' index for different test cases. The plots are labeled as follows:

- Row 1: T1S, T2M, T2S, T3M
- Row 2: T3S, T4M, TFTM, T5VS
- Row 3: T5S, T5M, T5W, BLC
- Row 4: LCCO, RCCO

The legend indicates the contour levels for the first-order Sobol' index:

- 0.1 fc (light blue)
- 0.5 fc (dark blue)
- 1.0 fc (green)

Each plot shows the spatial distribution of the first-order Sobol' index, with the contours representing the 0.1, 0.5, and 1.0 levels of the index. The plots are arranged in a 4x4 grid, with the test cases labeled as follows:

- Row 1: T1S, T2M, T2S, T3M
- Row 2: T3S, T4M, TFTM, T5VS
- Row 3: T5S, T5M, T5W, BLC
- Row 4: LCCO, RCCO

The plots show the spatial distribution of the first-order Sobol' index, with the contours representing the 0.1, 0.5, and 1.0 levels of the index. The plots are arranged in a 4x4 grid, with the test cases labeled as follows:

- Row 1: T1S, T2M, T2S, T3M
- Row 2: T3S, T4M, TFTM, T5VS
- Row 3: T5S, T5M, T5W, BLC
- Row 4: LCCO, RCCO

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C	1.04
5°C	1.04
10°C	1.03
15°C	1.02
20°C	1.01
25°C	1.00
30°C	0.99
35°C	0.98
40°C	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25000	50000	100000
Lumen Maintenance Factor	1.00	0.96	0.92	0.85

Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	80	530	140	1.18	0.68	0.59	0.51	0.40	0.32
	P2	80	700	185	1.56	0.90	0.78	0.66	0.52	0.39
	P3	80	850	217	1.82	1.05	0.90	0.80	0.63	0.48
	P4	80	1050	270	2.27	1.31	1.12	0.99	0.79	0.59
	P5	80	1250	321	2.68	1.54	1.34	1.17	0.93	0.68
	P6	100	1050	343	2.89	1.66	1.59	1.37	1.00	0.71
	P7	100	1250	398	3.31	1.91	1.66	1.45	1.16	0.81
	P8	100	1350	431	3.61	2.07	1.81	1.57	1.25	0.91
Rotated Optics (Requires L90 or R90)	P10	90	530	156	1.30	0.76	0.65	0.62	0.45	0.32
	P11	90	700	207	1.75	1.01	0.87	0.74	0.60	0.46
	P12	90	850	254	2.12	1.22	1.06	0.94	0.73	0.55
	P13	90	1200	344	2.88	1.65	1.44	1.25	1.00	0.73
	P14	90	1400	405	3.39	1.95	1.71	1.48	1.18	0.86

Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use when motion sensor is used as dusk to dawn control.

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptical	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSBGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
80	530	P1	140W	T1S	17,575	3	0	3	126	18,933	3	0	3	135	19,173	3	0	3	137
				T2S	17,556	3	0	3	125	18,913	3	0	3	135	19,152	3	0	3	137
				T2M	17,647	3	0	3	126	19,010	3	0	3	136	19,251	3	0	3	138
				T3S	17,090	3	0	3	122	18,411	3	0	3	132	18,644	3	0	3	133
				T3M	17,604	3	0	3	126	18,964	3	0	3	135	19,204	3	0	3	137
				T4M	17,221	3	0	3	123	18,552	3	0	4	133	18,787	3	0	4	134
				TFTM	17,593	3	0	3	126	18,952	3	0	4	135	19,192	3	0	4	137
				TSVS	18,297	4	0	1	131	19,711	4	0	1	141	19,961	4	0	1	143
				T5S	18,312	4	0	2	131	19,727	4	0	2	141	19,977	4	0	2	143
				T5M	18,266	4	0	2	130	19,677	4	0	2	141	19,926	4	0	2	142
				TSW	18,146	5	0	3	130	19,548	5	0	3	140	19,796	5	0	3	141
				BLC	14,424	2	0	2	103	15,539	2	0	3	111	15,736	2	0	3	112
				LCCO	10,733	1	0	3	77	11,562	1	0	3	83	11,709	2	0	3	84
				RCCO	10,733	1	0	3	77	11,562	1	0	3	83	11,709	2	0	3	84
80	700	P2	185W	T1S	22,305	3	0	3	121	24,029	3	0	3	130	24,333	3	0	3	132
				T2S	22,281	3	0	4	120	24,003	3	0	4	130	24,307	3	0	4	131
				T2M	22,396	3	0	3	121	24,127	3	0	3	130	24,432	3	0	3	132
				T3S	21,690	3	0	4	117	23,366	3	0	4	126	23,662	3	0	4	128
				T3M	22,342	3	0	4	121	24,068	3	0	4	130	24,373	3	0	4	132
				T4M	21,857	3	0	4	118	23,545	3	0	4	127	23,844	3	0	4	129
				TFTM	22,328	3	0	4	121	24,054	3	0	4	130	24,358	3	0	4	132
				TSVS	23,222	5	0	1	126	25,016	5	0	1	135	25,333	5	0	1	137
				T5S	23,241	4	0	2	126	25,037	4	0	2	135	25,354	4	0	2	137
				T5M	23,182	5	0	3	125	24,974	5	0	3	135	25,290	5	0	3	137
				TSW	23,030	5	0	4	124	24,810	5	0	4	134	25,124	5	0	4	136
				BLC	18,307	2	0	3	99	19,721	2	0	3	107	19,971	2	0	3	108
				LCCO	13,622	2	0	3	74	14,674	2	0	4	79	14,860	2	0	4	80
				RCCO	13,622	2	0	3	74	14,674	2	0	4	79	14,860	2	0	4	80
80	850	P3	217W	T1S	26,202	3	0	3	121	28,226	3	0	3	130	28,584	3	0	3	132
				T2S	26,174	3	0	4	121	28,196	3	0	4	130	28,553	3	0	4	132
				T2M	26,309	3	0	3	121	28,342	3	0	3	131	28,700	3	0	3	132
				T3S	25,479	3	0	4	117	27,448	3	0	4	126	27,795	3	0	4	128
				T3M	26,245	3	0	4	121	28,273	3	0	4	130	28,631	3	0	4	132
				T4M	25,675	3	0	4	118	27,659	3	0	4	127	28,009	3	0	4	129
				TFTM	26,229	3	0	4	121	28,255	3	0	4	130	28,613	3	0	4	132
				TSVS	27,279	5	0	1	126	29,387	5	0	1	135	29,759	5	0	1	137
				T5S	27,301	4	0	2	126	29,410	5	0	2	136	29,783	5	0	2	137
				T5M	27,232	5	0	3	125	29,336	5	0	3	135	29,707	5	0	3	137
				TSW	27,053	5	0	4	125	29,144	5	0	4	134	29,513	5	0	4	136
				BLC	21,504	2	0	3	99	23,166	2	0	3	107	23,459	2	0	4	108
				LCCO	16,001	2	0	4	74	17,238	2	0	4	79	17,456	2	0	4	80
				RCCO	16,001	2	0	4	74	17,238	2	0	4	79	17,456	2	0	4	80
80	1050	P4	270W	T1S	30,963	4	0	4	115	33,355	4	0	4	124	33,777	4	0	4	125
				T2S	30,930	4	0	4	115	33,320	4	0	4	123	33,742	4	0	4	125
				T2M	31,089	3	0	4	115	33,491	3	0	4	124	33,915	3	0	4	126
				T3S	30,108	4	0	4	112	32,435	4	0	5	120	32,845	4	0	5	122
				T3M	31,014	3	0	4	115	33,410	3	0	4	124	33,833	3	0	4	125
				T4M	30,340	3	0	5	112	32,684	3	0	5	121	33,098	3	0	5	123
				TFTM	30,995	3	0	5	115	33,390	3	0	5	124	33,812	3	0	5	125
				TSVS	32,235	5	0	1	119	34,726	5	0	1	129	35,166	5	0	1	130
				T5S	32,261	5	0	2	119	34,754	5	0	2	129	35,194	5	0	2	130
				T5M	32,180	5	0	4	119	34,667	5	0	4	128	35,105	5	0	4	130
				TSW	31,969	5	0	4	118	34,439	5	0	5	128	34,875	5	0	5	129
				BLC	25,412	2	0	4	94	27,376	2	0	4	101	27,722	2	0	4	103
				LCCO	18,909	2	0	4	70	20,370	2	0	4	75	20,628	2	0	4	76
				RCCO	18,909	2	0	4	70	20,370	2	0	4	75	20,628	2	0	4	76

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
80	1250	P5	321W	T1S	35,193	4	0	4	110	37,912	4	0	4	118	38,392	4	0	4	120
				T2S	35,155	4	0	5	110	37,872	4	0	5	118	38,351	4	0	5	119
				T2M	35,336	4	0	4	110	38,067	4	0	4	119	38,549	4	0	4	120
				T3S	34,222	4	0	5	107	36,866	4	0	5	115	37,333	4	0	5	116
				T3M	35,251	3	0	4	110	37,974	3	0	5	118	38,455	4	0	5	120
				T4M	34,485	3	0	5	107	37,149	4	0	5	116	37,620	4	0	5	117
				TFTM	35,229	3	0	5	110	37,951	3	0	5	118	38,431	3	0	5	120
				TSVS	36,639	5	0	1	114	39,470	5	0	1	123	39,970	5	0	1	125
				T5S	36,669	5	0	2	114	39,502	5	0	2	123	40,002	5	0	2	125
				T5M	36,576	5	0	4	114	39,403	5	0	4	123	39,901	5	0	4	124
				TSW	36,336	5	0	5	113	39,144	5	0	5	122	39,640	5	0	5	123
				BLC	28,884	3	0	4	90	31,115	3	0	4	97	31,509	3	0	4	98
				LCCO	21,492	2	0	4	67	23,153	2	0	5	72	23,446	3	0	5	73
				RCCO	21,492	2	0	4	67	23,153	2	0	5	72	23,446	3	0	5	73
100	1050	P6	343W	T1S	37,824	4	0	4	110	40,747	4	0	4	119	41,263	4	0	4	120
				T2S	37,784	4	0	5	110	40,704	4	0	5	119	41,219	4	0	5	120
				T2M	37,979	4	0	4	111	40,913	4	0	4	119	41,431	4	0	4	121
				T3S	36,780	4	0	5	107	39,623	4	0	5	116	40,124	4	0	5	117
				T3M	37,886	3	0	5	110	40,814	4	0	5	119	41,331	4	0	5	120
				T4M	37,063	4	0	5	108	39,927	4	0	5	116	40,433	4	0	5	118
				TFTM	37,863	3	0	5	110	40,789	4	0	5	119	41,305	4	0	5	120
				TSVS	39,379	5	0	1	115	42,422	5	0	1	124	42,959	5	0	1	125
				T5S	39,411	5	0	2	115	42,456	5	0	2	124	42,993	5	0	2	125
				T5M	39,311	5	0	4	115	42,349	5	0	4	123	42,885	5	0	4	125
				TSW	39,053	5	0	5	114	42,071	5	0	5	123	42,604	5	0	5	124
				BLC	31,043	3	0	4	91	33,442	3	0	4	97	33,865	3	0	4	99
				LCCO	23,099	2	0	5	67	24,884	3	0	5	73	25,199	3	0	5	73
				RCCO	23,099	2	0	5	67	24,884	3	0	5	73	25,199	3	0	5	73
100	1250	P7	398W	T1S	42,599	4	0	4	107	45,890	4	0	4	115	46,471	4	0	4	117
				T2S	42,553	4	0	5	107	45,842	4	0	5	115	46,422	4	0	5	117
				T2M	42,773	4	0	4	107	46,078	4	0	4	116	46,661	4	0	5	117
				T3S	41,423	4	0	5	104	44,624	4	0	5	112	45,189	4	0	5	114
				T3M	42,669	4	0	5	107	45,966	4	0	5	115	46,548	4	0	5	117
				T4M	41,742	4	0	5	105	44,967	4	0	5	113	45,537	4	0	5	114
				TFTM	42,643	4	0	5	107	45,938	4	0	5	115	46,519	4	0	5	117
				TSVS	44,350	5	0	1	111	47,777	5	0	1	120	48,381	5	0	1	122
				T5S	44,385	5	0	2	112	47,815	5	0	3	120	48,420	5	0	3	122
				T5M	44,273	5	0	4	111	47,695	5	0	4	120	48,298	5	0	4	121
				TSW	43,983	5	0	5	111	47,382	5	0	5	119	47,982	5	0	5	121
				BLC	34,962	3	0	4	88	37,664	3	0	5	95	38,140	3	0	5	96
				LCCO	26,015	3	0	5	65	28,025	3	0	5	70	28,380	3	0	5	71
				RCCO	26,015	3	0	5	65	28,025	3	0	5	70	28,380	3	0	5	71
100	1350	P8	448W	T1S	45,610	4	0	4	106	49,135	4	0	4	114	49,757	4	0	4	115
				T2S	45,562	4	0	5	106	49,083	4	0	5	114	49,704	4	0	5	115
				T2M	45,797	4	0	4	106	49,336	4	0	5	114	49,960	4	0	5	116
				T3S	44,352	4	0	5	103	47,779	4	0	5	111	48,384	4	0	5	112
				T3M	45,686	4	0	5	106	49,216	4	0	5	114	49,839	4	0	5	116
				T4M	44,693	4	0	5	104	48,147	4	0	5	112	48,756	4	0	5	113
				TFTM	45,657	4	0	5	106	49,186	4	0	5	114	49,808	4	0	5	116
				TSVS	47,485	5	0	1	110	51,155	5	0	1	119	51,802	5	0	1	120
				T5S	47,524	5	0	3	110	51,196	5	0	3	119	51,844	5	0	3	120
				T5M	47,404	5	0	4	110	51,067	5	0	5	118	51,713	5	0	5	120
				TSW	47,093	5	0	5	109	50,732	5	0	5	118	51,374	5	0	5	119
				BLC	37,434	3	0	5	87	40,326	3	0	5	94	40,837	3	0	5	95
				LCCO	27,854	3	0	5	65	30,006	3	0	5	70	30,386	3	0	5	71
				RCCO	27,854	3	0	5	65	30,006	3	0	5	70	30,386	3	0	5	71

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics																			
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
90	530	P10	156W	T1S	20,145	4	0	4	129	21,702	4	0	4	139	21,977	4	0	4	141
				T2S	20,029	4	0	4	128	21,577	4	0	4	138	21,850	4	0	4	140
				T2M	20,391	4	0	4	131	21,967	4	0	4	141	22,245	4	0	4	143
				T3S	19,719	4	0	4	126	21,242	4	0	4	136	21,511	4	0	4	138
				T3M	20,379	4	0	4	131	21,954	4	0	4	141	22,232	4	0	4	143
				T4M	19,995	4	0	4	128	21,540	4	0	4	138	21,812	5	0	5	140
				TFTM	20,511	4	0	4	131	22,096	5	0	5	142	22,376	5	0	5	143
				TSVS	20,655	4	0	1	132	22,251	4	0	1	143	22,533	4	0	1	144
				T5S	20,482	4	0	2	131	22,064	4	0	2	141	22,343	4	0	2	143
				T5M	20,477	5	0	3	131	22,059	5	0	3	141	22,338	5	0	3	143
				TSW	20,293	5	0	3	130	21,861	5	0	3	140	22,138	5	0	3	142
				BLC	16,846	4	0	4	108	18,148	4	0	4	116	18,378	4	0	4	118
				LCCO	12,032	2	0	3	77	12,961	2	0	3	83	13,125	2	0	3	84
				RCCO	12,016	4	0	4	77	12,944	4	0	4	83	13,108	4	0	4	84
90	700	P11	207W	T1S	25,518	4	0	4	123	27,490	4	0	4	133	27,837	4	0	4	134
				T2S	25,371	5	0	5	123	27,331	5	0	5	132	27,677	5	0	5	134
				T2M	25,829	4	0	4	125	27,825	4	0	4	134	28,177	4	0	4	136
				T3S	24,977	5	0	5	121	26,907	5	0	5	130	27,248	5	0	5	132
				T3M	25,814	5	0	5	125	27,809	5	0	5	134	28,161	5	0	5	136
				T4M	25,327	5	0	5	122	27,284	5	0	5	132	27,629	5	0	5	133
				TFTM	25,981	5	0	5	126	27,989	5	0	5	135	28,343	5	0	5	137
				TSVS	26,164	5	0	1	126	28,185	5	0	1	136	28,542	5	0	1	138
				T5S	25,943	4	0	2	125	27,948	5	0	2	135	28,302	5	0	2	137
				T5M	25,937	5	0	3	125	27,941	5	0	3	135	28,295	5	0	3	137
				TSW	25,704	5	0	4	124	27,691	5	0	4	134	28,041	5	0	4	135
				BLC	21,339	4	0	4	103	22,988	4	0	4	111	23,279	4	0	4	112
				LCCO	15,240	2	0	4	74	16,418	2	0	4	79	16,626	2	0	4	80
				RCCO	15,220	5	0	5	74	16,396	5	0	5	79	16,604	5	0	5	80
90	850	P12	254W	T1S	29,912	4	0	4	118	32,223	4	0	4	127	32,631	5	0	4	128
				T2S	29,740	5	0	5	117	32,038	5	0	5	126	32,443	5	0	5	128
				T2M	30,277	4	0	4	119	32,616	5	0	5	128	33,029	5	0	5	130
				T3S	29,278	5	0	5	115	31,540	5	0	5	124	31,940	5	0	5	126
				T3M	30,259	5	0	5	119	32,597	5	0	5	128	33,010	5	0	5	130
				T4M	29,688	5	0	5	117	31,982	5	0	5	126	32,387	5	0	5	128
				TFTM	30,455	5	0	5	120	32,808	5	0	5	129	33,224	5	0	5	131
				TSVS	30,669	5	0	1	121	33,039	5	0	1	130	33,457	5	0	1	132
				T5S	30,411	5	0	2	120	32,761	5	0	2	129	33,176	5	0	2	131
				T5M	30,404	5	0	3	120	32,753	5	0	4	129	33,168	5	0	4	131
				TSW	30,131	5	0	4	119	32,459	5	0	4	128	32,870	5	0	4	129
				BLC	25,013	4	0	4	98	26,946	4	0	4	106	27,287	4	0	4	107
				LCCO	17,865	2	0	4	70	19,245	2	0	4	76	19,489	2	0	4	77
				RCCO	17,841	5	0	5	70	19,220	5	0	5	76	19,463	5	0	5	77
90	1200	P13	344W	T1S	38,768	5	0	5	113	41,764	5	0	5	121	42,292	5	0	5	123
				T2S	38,545	5	0	5	112	41,523	5	0	5	121	42,049	5	0	5	122
				T2M	39,241	5	0	5	114	42,273	5	0	5	123	42,808	5	0	5	124
				T3S	37,947	5	0	5	110	40,879	5	0	5	119	41,396	5	0	5	120
				T3M	39,218	5	0	5	114	42,249	5	0	5	123	42,783	5	0	5	124
				T4M	38,478	5	0	5	112	41,451	5	0	5	120	41,976	5	0	5	122
				TFTM	39,472	5	0	5	115	42,522	5	0	5	124	43,060	5	0	5	125
				TSVS	39,749	5	0	1	116	42,821	5	0	1	124	43,363	5	0	1	126
				T5S	39,415	5	0	2	115	42,461	5	0	2	123	42,998	5	0	2	125
				T5M	39,405	5	0	4	115	42,450	5	0	4	123	42,988	5	0	4	125
				TSW	39,052	5	0	5	114	42,069	5	0	5	122	42,602	5	0	5	124
				BLC	32,419	5	0	5	94	34,925	5	0	5	102	35,367	5	0	5	103
				LCCO	23,154	3	0	5	67	24,943	3	0	5	73	25,259	3	0	5	73
				RCCO	23,124	5	0	5	67	24,910	5	0	5	72	25,226	5	0	5	73
90	1400	P14	405W	T1S	42,867	5	0	5	106	46,180	5	0	5	114	46,764	5	0	5	115
				T2S	42,621	5	0	5	105	45,914	5	0	5	113	46,495	5	0	5	115
				T2M	43,390	5	0	5	107	46,743	5	0	5	115	47,335	5	0	5	117
				T3S	41,959	5	0	5	104	45,201	5	0	5	112	45,773	5	0	5	113
				T3M	43,365	5	0	5	107	46,716	5	0	5	115	47,307	5	0	5	117
				T4M	42,547	5	0	5	105	45,834	5	0	5	113	46,414	5	0	5	115
				TFTM	43,646	5	0	5	108	47,018	5	0	5	116	47,614	5	0	5	118
				TSVS	43,952	5	0	1	109	47,349	5	0	1	117	47,948	5	0	1	118
				T5S	43,583	5	0	2	108	46,950	5	0	2	116	47,545	5	0	2	117
				T5M	43,572	5	0	4	108	46,939	5	0	4	116	47,533	5	0	4	117
				TSW	43,181	5	0	5	107	46,518	5	0	5	115	47,107	5	0	5	116
				BLC	35,847	5	0	5	89	38,617	5	0	5	95	39,106	5	0	5	97
				LCCO	25,602	3	0	5	63	27,580	3	0	5	68	27,930	3	0	5	69
				RCCO	25,569	5	0	5	63	27,544	5	0	5	68	27,893	5	0	5	69

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.1 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. The D-Series Size 2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hrs at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 2 to withstand up to a 2.0 G vibration load rating per ANSI C136.31. The D-Series Size 2 utilizes the AERIS™ series pole drilling pattern (Template #8). NEMA photocontrol receptacle is available.

STANDARD CONTROLS

The DSX2 LED area luminaire has a number of control options. DSX Size 2, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX2 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D670,857 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

BUY AMERICAN

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.





SPEC-00272 UPDATED 08/11/2021

ECO 3" LED DOWNLIGHT

ED3AIC, ED3ANC, ED3NC, ED3RM
ED3LAIC, ED3LANC, ED3LNIC, ED3LRIC
ED3SNIC

PROJECT:

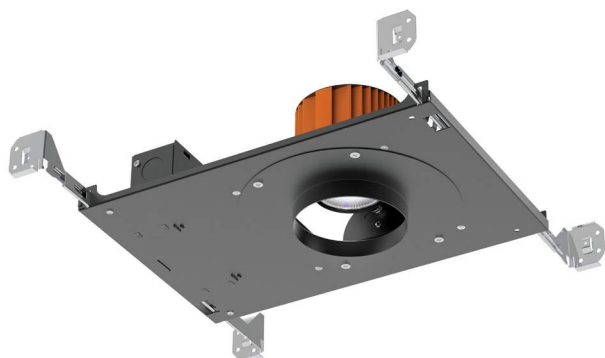
TYPE:

NOTE:

LDC
University Place
Mall

FB4

Proj.# 180.02



ECO FULL SERVICE RECESSED DOWNLIGHT SOLUTIONS

- ED3 – Up to 1929 Delivered Lumens, Universal Dimming Driver
- ED3L – Up to 1226 Delivered Lumens, Phase Control Driver
- ED3S – Shallow Plenum, Up to 1403 Delivered Lumens, Universal Dimming Driver

LED LIGHT ENGINE

RATED WATTAGE	21W, 15W, 12W
DELIVERED LUMENS	Up to 1929 lm
EFFICACY	Up to 108 LPW
CCT @ 90CRI	2700K, 3000K, 3500K, 4000K
COLOR QUALITY	90+ CRI, 2-Step SDCM
LED LIFETIME	55,000 hours @ L90

DELIVERED LUMENS MATRIX

ED3 (19.8W)	10° optic	30° optic	50° optic	80° optic
2700K (90CRI)	1669 lm	1744 lm	1592 lm	1125 lm
3000K (90CRI)	1803 lm	1884 lm	1720 lm	1216 lm
3500K (90CRI)	1846 lm	1929 lm	1761 lm	1244 lm
4000K (90CRI)	1900 lm	1985 lm	1812 lm	1281 lm

ED3S (14.1W)	10° optic	30° optic	50° optic	80° optic
2700K (90CRI)	1214 lm	1269 lm	1158 lm	819 lm
3000K (90CRI)	1312 lm	1371 lm	1252 lm	885 lm
3500K (90CRI)	1343 lm	1403 lm	1281 lm	905 lm
4000K (90CRI)	1382 lm	1445 lm	1319 lm	932 lm

ED3L (11.3W)	10° optic	30° optic	50° optic	80° optic
2700K (90CRI)	1061 lm	1108 lm	1012 lm	715 lm
3000K (90CRI)	1146 lm	1198 lm	1093 lm	773 lm
3500K (90CRI)	1173 lm	1226 lm	1119 lm	791 lm
4000K (90CRI)	1207 lm	1262 lm	1152 lm	814 lm

- The Overachiever, recessed downlight system
- Silent Vu™ Optics Technology provides exceptional light performance with minimal glare
- Fixed or easily adjustable, installs in low plenum spaces

SILENT VU™ OPTICS TECHNOLOGY

OPTICS	50° Installed, 10°, 30°, 80° available
ADJUSTABLE	0° to 45° tilt (Adjustable housings only)
MEDIA	Clear, Solite, Frosted, Linear Spread

POWER SUPPLY

INPUT VOLTAGE	120/277V, 50/60Hz
DIMMING	TRIAC, ELV, 0-10V, dims to 1%
SERVICABILITY	Below Ceiling Access

TRIM OPTIONS

- Fixed or Adjustable
- Round or Square
- Standard or Trimless
- Wall Wash
- Wet Location

TRIM COLORS

- White
- Black
- Champagne
- Champagne w/ White Flange
- Black w/ White Flange
- Silver w/ White Flange

HOUSING INSTALLATION

- New Construction includes (2) galvanized steel adjustable hanger bars
- Remodel option available
- ½" – 2" ceiling thickness
- Min Plenum Height: 2½" Shallow
- Ceiling Material: Drywall, T-bar grid
- Steel junction box with up to (4) ½" knockouts
- AIC/NIC/RIC/SNIC models are Air Tight
- AIC/SNIC models are CCEA compliant.
(Note: polycell spray-in foam insulation must be kept 3" from housing)

LISTINGS AND WARRANTY

- cULus Listed
- UL Listed for Damp Location (All Styles)
- IC Rated and Non IC Rated Available
- Five (5) years limited warranty
- ASTM E283 Certified Airtight (AIC/NIC/RIC/SNIC Models)
- UL Listed for Wet Location (Wet Location Trim Style)
- CCEA (Chicago Plenum) Approved (AIC/SNIC Models)
- CA Title 24-JA8 Compliant (AIC/NIC/RIC/SNIC Models)





SPEC-00272 UPDATED 08/11/2021

ECO 3" LED DOWNLIGHTED3AIC, ED3ANC, ED3NC, ED3RM
ED3LAIC, ED3LANC, ED3LNIC, ED3LRIC
ED3SNIC

PROJECT: _____

TYPE: _____

NOTE: _____

ORDER MATRIX**ED3**

ECO 3" HOUSING + LIGHT ENGINE ORDER MATRIX (Example: ED3AIC-309050-21S)

HOUSING BASE		LIGHT ENGINE			DRIVER ASSEMBLY	
FAMILY APERTURE	INSTALLATION TYPE	CCT	CRI	OPTIC	WATTAGE	LED DIMMING DRIVER
ED3 ECO 3"	AIC* (Adj New Construction IC)	-27 (2700K)	90 (90 CRI)	50 (50° Flood) Installed 10°, 30°, 80° optics available from the Additional Optics Accessories table below	-21 (21W)	S Universal Dimming Driver (1%-100% 0-10V, TRIAC, ELV, 120V/277V)
	ANC* (Adj New Construction)	-30 (3000K)				
	NC (New Construction)	-35 (3500K)				
	RM (Remodel)	-40 (4000K)				

* AIC and ANC: Trimless Style available, order associated Trimless Mudplate from Trim Accessories

ED3L

ECO 3" HOUSING + LIGHT ENGINE ORDER MATRIX (Example: ED3LAIC-309050-12S2)

HOUSING BASE		LIGHT ENGINE			DRIVER ASSEMBLY	
FAMILY APERTURE	INSTALLATION TYPE	CCT	CRI	OPTIC	WATTAGE	LED DIMMING DRIVER
ED3L ECO 3" LPD	AIC* (Adj New Construction IC)	-27 (2700K)	90 (90 CRI)	50 (50° Flood) Installed 10°, 30°, 80° optics available from the Additional Optics Accessories table below	-12 (12W)	S2 Phase Control Dimming Driver (1%-100% TRIAC, ELV, 120V/277V)
	ANC* (Adj New Construction)	-30 (3000K)				
	NIC (New Construction IC)	-35 (3500K)				
	RIC (Remodel IC)	-40 (4000K)				

* AIC and ANC: Trimless Style available, order associated Trimless Mudplate from Trim Accessories

ED3S

ECO 3" HOUSING + LIGHT ENGINE ORDER MATRIX (Example: ED3SNIC-309050-15S)

HOUSING BASE		LIGHT ENGINE			DRIVER ASSEMBLY	
FAMILY APERTURE	INSTALLATION TYPE	CCT	CRI	OPTIC	WATTAGE	LED DIMMING DRIVER
ED3S ECO 3" Shallow	NIC* (New Construction IC)	-27 (2700K)	90 (90 CRI)	50 (50° Flood) Installed 10°, 30°, 80° optics available from the Additional Optics Accessories table below	-15 (15W)	S Universal Dimming Driver (1%-100% 0-10V, TRIAC, ELV, 120V/277V)
		-30 (3000K)				
		-35 (3500K)				
		-40 (4000K)				

* Trimless Style available, order associated Trimless Mudplate from Trim Accessories

ACCESSORIES

ECO 3" ACCESSORIES FOR ECO ED3, ED3L, ED3S

ADDITIONAL OPTICS		OPTICAL MEDIA		EMERGENCY OPTIONS	
ED3-10-OPTIC	(10° Spot)	ED3-CL	(Clear Lens)	EM-1000	(25W Remote Inverter)
ED3-30-OPTIC	(30° Narrow Flood)	ED3-MP	(Solite Lens)	EM-1002	(10W Remote EM Driver)
ED3-50-OPTIC	(50° Flood)	ED3-FR	(Frosted Lens)	EM-1003	(35W Remote Inverter)
ED3-80-OPTIC	(80° Wide Flood)	ED3-LS	(Linear Spread Lens)	EM-1004	(50W Remote Inverter)
		ED3-MHLDR¹	(Media Holder)		

1. MHLDR required when ordering any optical media



SPEC-00272 UPDATED 08/11/2021

ECO 3" LED DOWNLIGHTED3AIC, ED3ANC, ED3NC, ED3RM
ED3LAIC, ED3LANC, ED3LNIC, ED3LRIC
ED3SNIC

PROJECT: _____

TYPE: _____

NOTE: _____

ORDER MATRIX**TRIM****ECO 3" DOWNLIGHT TRIM ORDER MATRIX (Example: ED3-RFSTWT)**

FAMILY APERTURE	SHAPE	POSITION	STYLE	FINISH
ED3- ECO 3"	R (Round)	F (Fixed)	ST (Standard)	WT (White)
	S (Square)	A (Adjustable)	WW ^{1,2} (Wall Wash)	BK (Black)
			WL ¹ (Wet Location)	CN (Champagne)
			TL ³ (Standard Trimless)	BW ⁴ (Black w/ White Flange)
				SW ⁴ (Silver w/ White Flange)
				CW ⁴ (Champagne w/ White Flange)

1. Use F (Fixed Position) for WW (Wall Wash) and WL (Wet Location) style.

2. WW (Wall Wash) Style Trim ships with recommended 80° optic.

3. Must order associated Mudplate from Trim Accessories. Trimless Style for use with AIC, ANC, and SNIC models only.

4. Color option available in ST (Standard) Style only.

TRIM ACCESSORIES**ECO 3" TRIM ACCESSORIES ORDER MATRIX (Example: ED3-R-TL)**

SIZE	STYLE
ED3- ECO 3"	R-TL (Round Trimless Mudplate)
	S-TL (Square Trimless Mudplate)
	R-FMA (Round Flush Mount Adapter)
	S-FMA (Square Flush Mount Adapter)
	TC1 (Thick Ceiling Adapter for ceilings 1 ¹ / ₁₆ " to 1 ¹ / ₄ ")
	TC2 (Thick Ceiling Adapter for ceilings 1 ⁵ / ₁₆ " to 2")



SPEC-00272 UPDATED 08/11/2021

ECO 3" LED DOWNLIGHT

ED3AIC, ED3ANC, ED3NC, ED3RM
ED3LAIC, ED3LANC, ED3LNIC, ED3LRIC
ED3SNIC

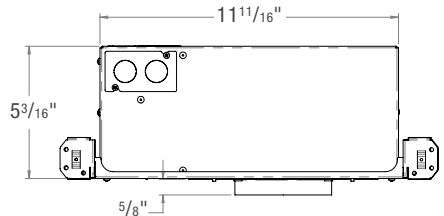
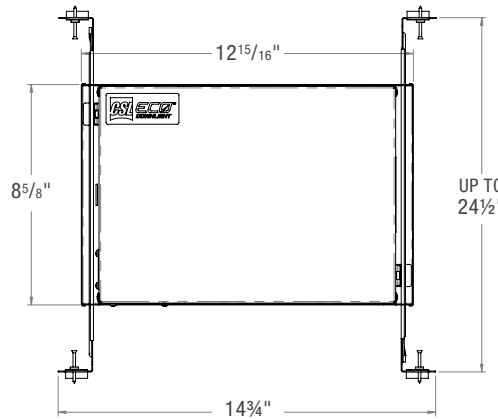
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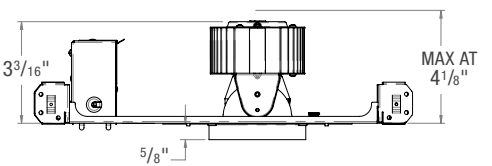
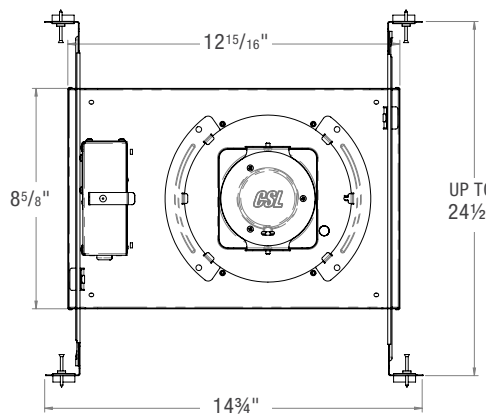
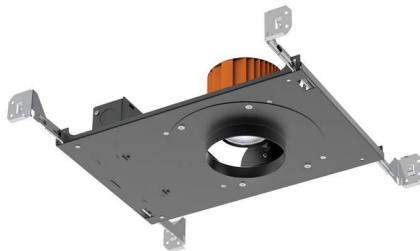
NOTE: _____

HOUSING AND LIGHT ENGINE LINE DRAWINGS

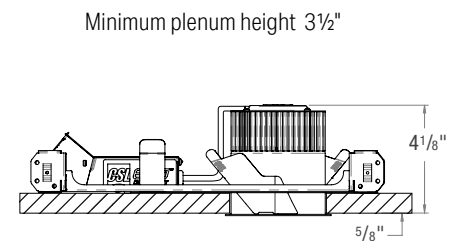
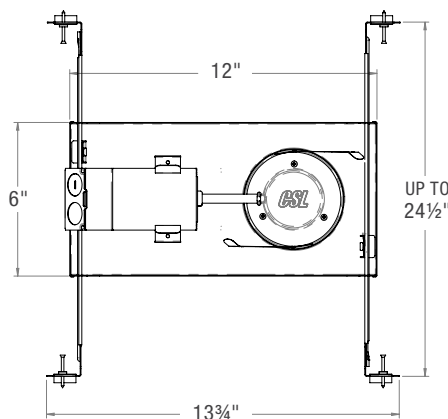
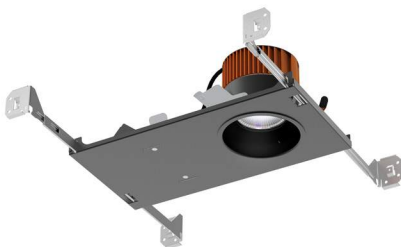
ED3AIC/ED3LAIC



ED3ANC/ED3LANC



ED3NC/ED3LNIC





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ECO 3" LED DOWNLIGHT

ED3AIC, ED3ANC, ED3NC, ED3RM
ED3LAIC, ED3LANC, ED3LNIC, ED3LRIC
ED3SNIC

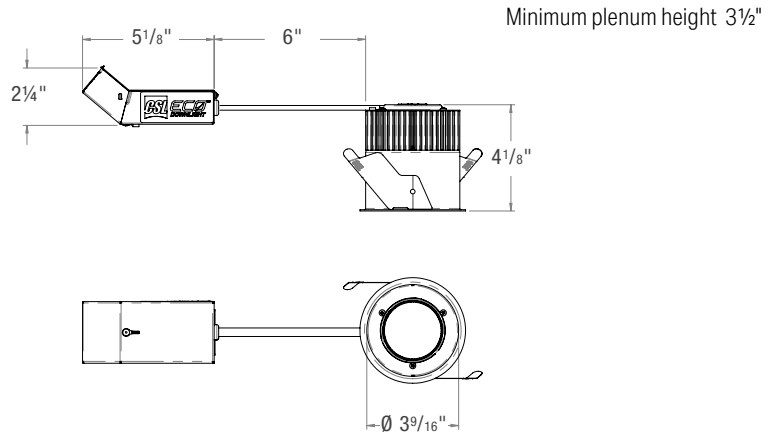
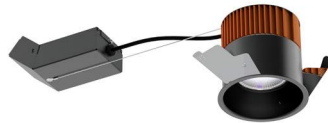
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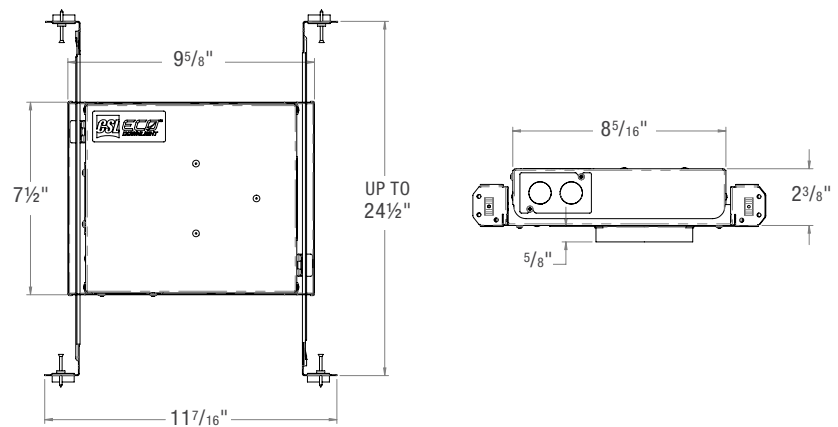
NOTE: _____

HOUSING AND LIGHT ENGINE LINE DRAWINGS

ED3RM/ED3LRIC



ED3SNIC





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ECO 3" LED DOWNLIGHT

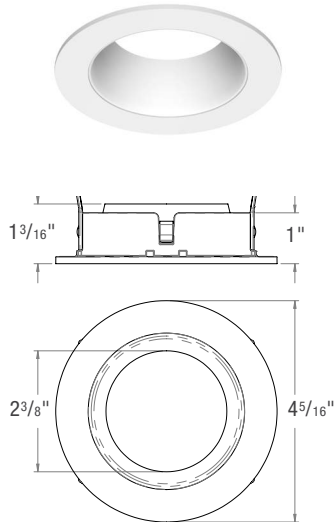
ED3AIC, ED3ANC, ED3NC, ED3RM
ED3LAIC, ED3LANC, ED3LNIC, ED3LRIC
ED3SNIC

PROJECT: _____

TYPE: _____

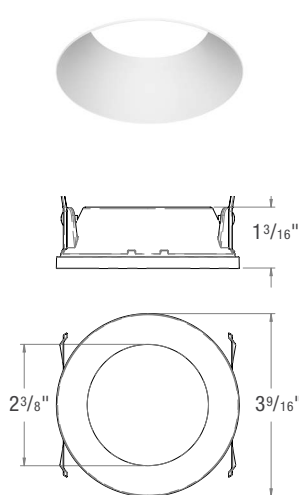
NOTE: _____

TRIM STYLES



ED3-RFST

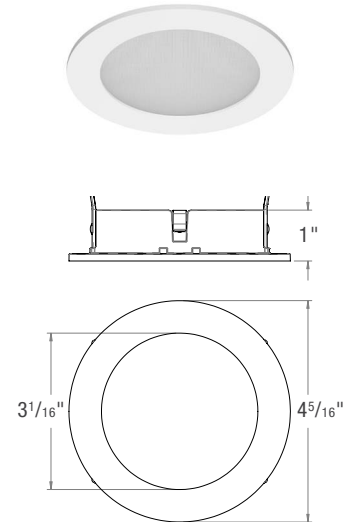
Round Fixed Standard



ED3-RFTL

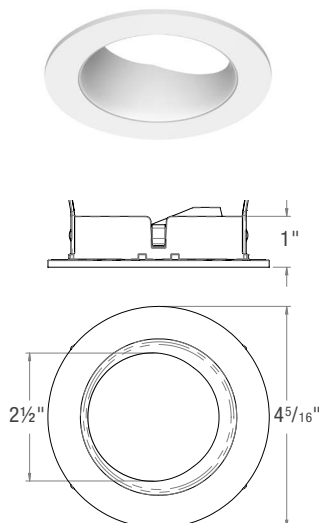
Round Fixed Trimless

Must order associated Mudplate from Trim Accessories.
Trimless Style for use with AIC, ANC, and SNIC models only.



ED3-RFWL

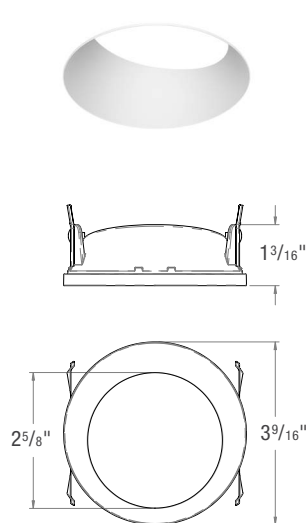
Round Fixed Wet Location



ED3-RAST

Round Adjustable Standard

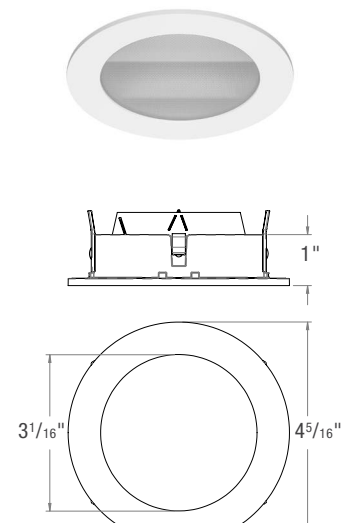
Adjustable trim styles for use
with adjustable AIC and ANC models only.



ED3-RATL

Round Adjustable Trimless

Adjustable trim styles for use with adjustable AIC
and ANC models only.
Must order associated Mudplate from Trim Accessories.
Trimless Style for use with AIC, ANC, and SNIC models only.



ED3-RFWW

Round Fixed Wall Wash



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ECO 3" LED DOWNLIGHT

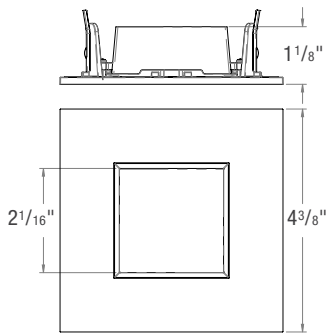
ED3AIC, ED3ANC, ED3NC, ED3RM
ED3LAIC, ED3LANC, ED3LNIC, ED3LRIC
ED3SNIC

PROJECT: _____

TYPE: _____

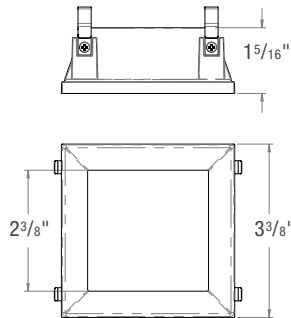
NOTE: _____

TRIM STYLES



ED3-SFST

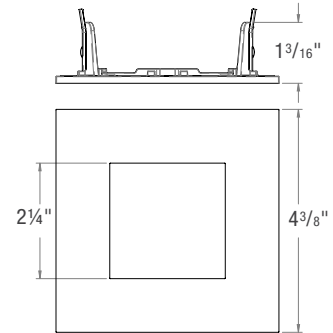
Square Fixed Standard



ED3-SFTL

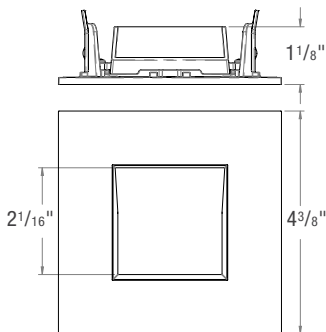
Square Fixed Trimless

Must order associated Mudplate from Trim Accessories.
Trimless Style for use with AIC, ANC, and SNIC models only.



ED3-SFWL

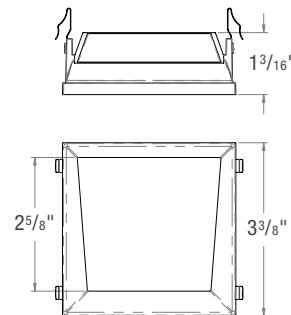
Square Fixed Wet Location



ED3-SAST

Square Adjustable Standard

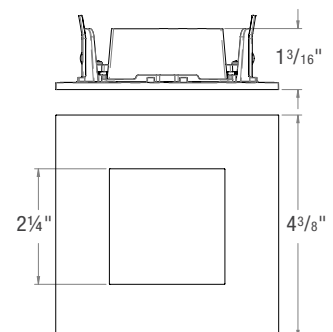
Adjustable trim styles for use
with adjustable AIC and ANC models only.



ED3-SATL

Square Adjustable Trimless

Adjustable trim styles for use with adjustable AIC
and ANC models only.
Must order associated Mudplate from Trim Accessories.
Trimless Style for use with AIC, ANC, and SNIC models only.



ED3-SFWW

Square Fixed Wall Wash



SPEC-00272 UPDATED 08/11/2021

ECO 3" LED DOWNLIGHT

ED3AIC, ED3ANC, ED3NC, ED3RM
ED3LAIC, ED3LANC, ED3LNIC, ED3LRIC
ED3SNIC

PROJECT: _____

TYPE: _____

NOTE: _____

TRIM FINISHES



ED3-RFSTWT
WT (White)



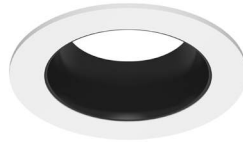
ED3-RFSTBK
BK (Black)



ED3-RFSTCN
CN (Champagne)



ED3-RFSTSW
SW (Silver with White Flange)



ED3-RFSTBW
BW (Black with White Flange)



ED3-RFSTCW
CW (Champagne with White Flange)



ED3-SFSTWT
WT (White)



ED3-SFSTBK
BK (Black)



ED3-SFSTCN
CN (Champagne)



ED3-SFSTSW
SW (Silver with White Flange)



ED3-SFSTBW
BW (Black with White Flange)



ED3-SFSTCW
CW (Champagne with White Flange)



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ECO 3" LED DOWNLIGHT

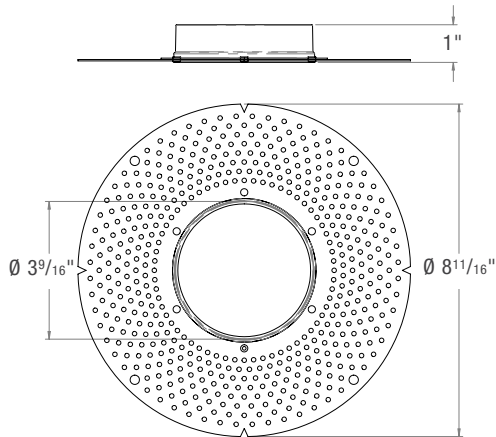
ED3AIC, ED3ANC, ED3NC, ED3RM
ED3LAIC, ED3LANC, ED3LNIC, ED3LRIC
ED3SNIC

PROJECT: _____

TYPE: _____

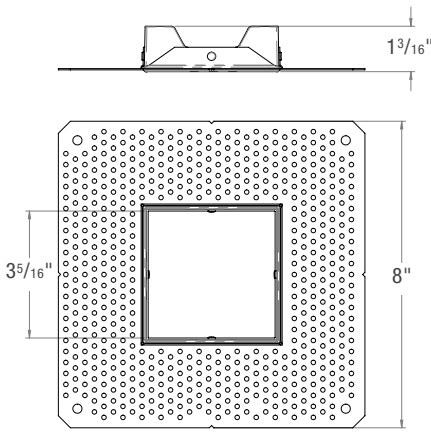
NOTE: _____

TRIM ACCESSORIES



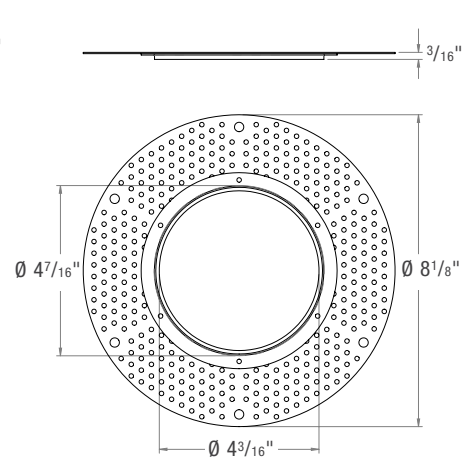
ED3-R-TL

Round Trimless Mudplate



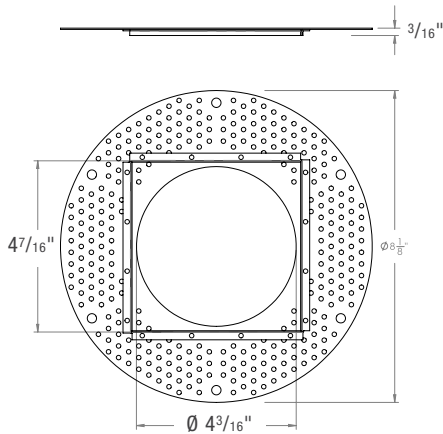
ED3-S-TL

Square Trimless Mudplate



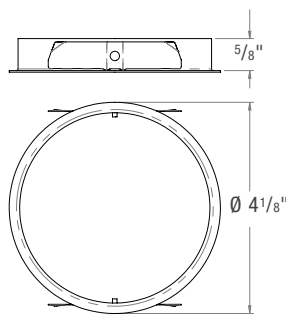
ED3-R-FMA

Round Flush Mount Adapter



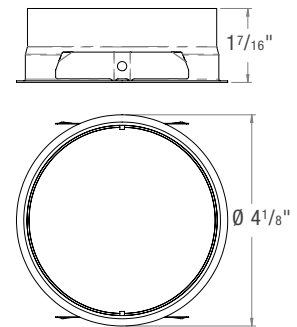
ED3-S-FMA

Square Flush Mount Adapter



ED3-TC1

Thick Ceiling Adapter
for ceilings 1 1/16" to 1 1/4"



ED3-TC2

Thick Ceiling Adapter
for ceilings 1 5/16" to 2"



SPEC-00272 UPDATED 08/11/2021

ECO 3" LED DOWNLIGHTED3AIC, ED3ANC, ED3NC, ED3RM
ED3LAIC, ED3LANC, ED3LNIC, ED3LRIC
ED3SNIC

PROJECT: _____

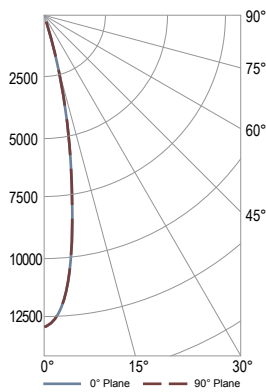
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NOTE: _____

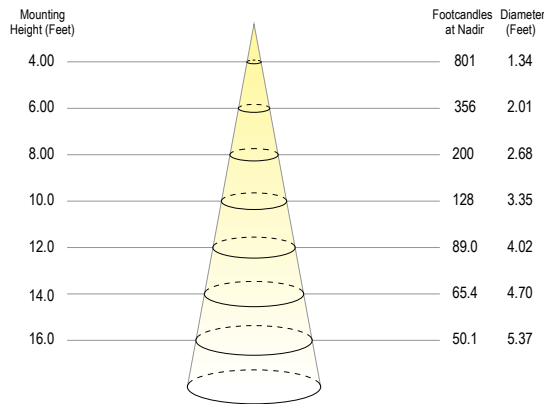
PHOTOMETRICS

Eco Downlight 3" ANC model (2700K, 90 CRI, 10° Optic, 21W)
Round, Standard, White Trim

Polar Plot



Cone of Light Tabulation



Voltage	Current	Power
120.1 VAC	0.1664 A	19.62 W

Power Factor	Frequency	Current THD
0.982	60 Hz	16.8%

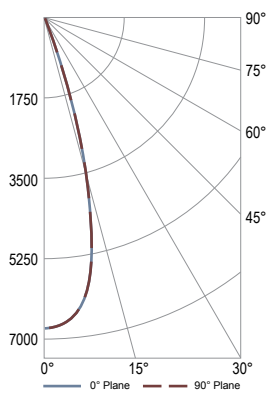
Summary of Results

Spacing Criteria Total Lumen Output: 1669 Lumens
0-180: 0.34 Luminaire Efficacy: 85.0 lm/w
90-270: 0.34 Maximum Candela: 12818 Candela

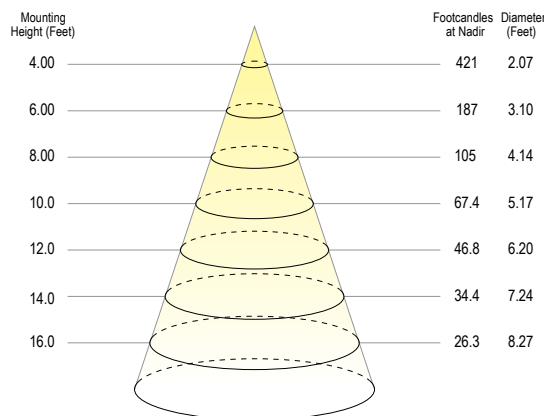
Zone	Lumens	% of Luminaire
0-40	1652	99.0%
0-60	1663	99.6%
0-90	1669	100.0%

Eco Downlight 3" ANC model (2700K, 90 CRI, 30° Optic, 21W)
Round, Standard, White Trim

Polar Plot



Cone of Light Tabulation



Voltage	Current	Power
120.1 VAC	0.1662 A	19.60 W

Power Factor	Frequency	Current THD
0.982	60 Hz	16.8%

Summary of Results

Spacing Criteria Total Lumen Output: 1701 Lumens
0-180: 0.52 Luminaire Efficacy: 86.8 lm/w
90-270: 0.52 Maximum Candela: 6743 Candela

Zone	Lumens	% of Luminaire
0-40	1684	99.0%
0-60	1697	99.7%
0-90	1701	100.0%



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ECO 3" LED DOWNLIGHTED3AIC, ED3ANC, ED3NC, ED3RM
ED3LAIC, ED3LANC, ED3LNIC, ED3LRIC
ED3SNIC

PROJECT: _____

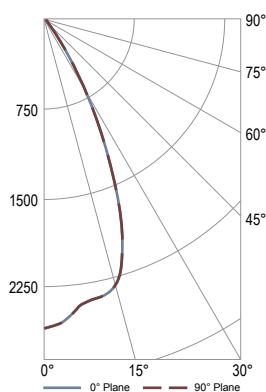
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NOTE: _____

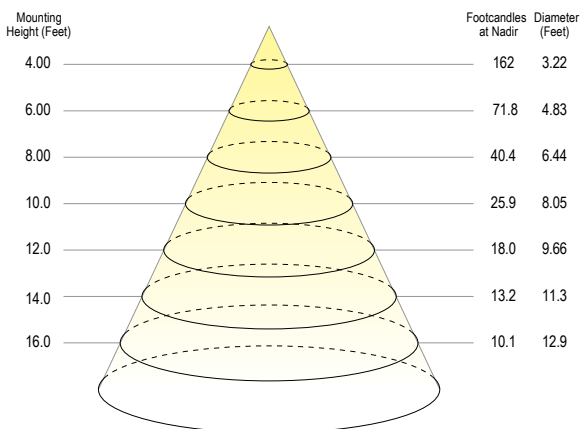
PHOTOMETRICS

Eco Downlight 3" ANC model (2700K, 90 CRI, 50° Optic, 21W)
Round, Standard, White Trim

Polar Plot



Cone of Light Tabulation



Voltage	Current	Power
120.1 VAC	0.1663 A	19.62 W

Power Factor	Frequency	Current THD
0.982	60 Hz	16.8%

Summary of Results

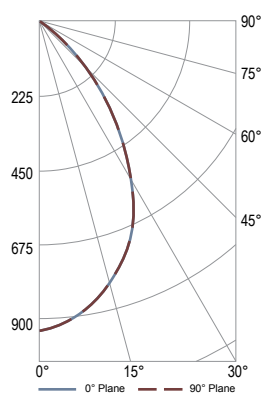
Spacing Criteria 0-180: 0.80
90-270: 0.80

Total Lumen Output: 1592 Lumens
Luminaire Efficacy: 81.2 lm/w
Maximum Candela: 2586 Candela

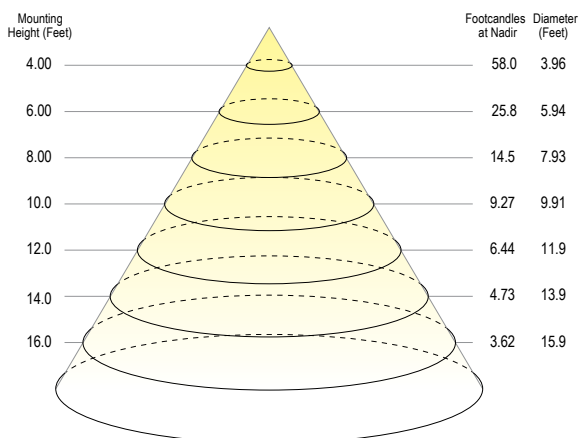
Zone	Lumens	% of Luminaire
0-40	1555	97.7%
0-60	1587	99.7%
0-90	1592	100.0%

Eco Downlight 3" ANC model (2700K, 90 CRI, 80° Optic, 21W)
Round, Standard, White Trim

Polar Plot



Cone of Light Tabulation



Voltage	Current	Power
120.0 VAC	0.1740 A	20.71 W

Power Factor	Frequency	Current THD
0.991	60 Hz	9.97%

Summary of Results

Spacing Criteria 0-180: 0.99
90-270: 0.99

Total Lumen Output: 1125 Lumens
Luminaire Efficacy: 54.3 lm/w
Maximum Candela: 927 Candela

Zone	Lumens	% of Luminaire
0-40	896	79.6%
0-60	1106	98.3%
0-90	1125	100.0%



SPEC-00272 UPDATED 08/11/2021

ECO 3" LED DOWNLIGHTED3AIC, ED3ANC, ED3NC, ED3RM
ED3LAIC, ED3LANC, ED3LNIC, ED3LRIC
ED3SNIC

PROJECT: _____

TYPE: _____

NOTE: _____

FOR DRIVER TYPE "S"

Universal Dimming Driver, ED3 and ED3S only

Compatible Phase Control Dimmers			
MFG	Model	MFG	Model
Lutron	LGCL-153PL	Leviton	VPE06
Lutron	DVRP-253P	Leviton	DW1KD-1BZ
Lutron	RRD-6CL	Leviton	IPE04
Lutron	NTELV-600P	Leviton	IPL06
Lutron	DVELV-303P	Cooper	SAL06P
Lutron	MAELV-600		
Lutron	PD-6WCL		
Lutron	SELV-300P		
Lutron	DVCL-153P		

Compatible dimmer information provided by the dimming driver manufacturer

Compatible 0-10VDC Dimmers	
MFG	Model
Lutron	NFTV
Lutron	DVTV
Lutron	DVSTV
Leviton	IP710-LFZ
Lightolier	SR1200ZTUNV
Cooper	SF10P-W
Leviton	IP710-DL

Compatible dimmer information provided by the dimming driver manufacturer



SPEC-00272 UPDATED 08/11/2021

ECO 3" LED DOWNLIGHTED3AIC, ED3ANC, ED3NC, ED3RM
ED3LAIC, ED3LANC, ED3LNIC, ED3LRIC
ED3SNIC

PROJECT: _____

TYPE: _____

NOTE: _____

FOR DRIVER TYPE "S2"

Phase Control Dimming Driver, ED3L only

Compatible Phase Control Dimmers			
MFG	Model	MFG	Model
Lutron	S-603PG	Leviton	6631-LW
Lutron	DVCL-153P	Leviton	VPE06
Lutron	TGCL-153P	Leviton	6683-IW
Lutron	S600P	Leviton	6161
Lutron	DVELV303P	Leviton	6633-P
Lutron	SELV300P	Leviton	IPE04
Lutron	TG-600P	Cooper	DLCO3P
Lutron	LG600P	Cooper	SLCO3P
Lutron	CT103P	Cooper	DALO6P
Lutron	MAELV600	Lightolier	ZP260QEW
Lutron	FAELV500		

Compatible dimmer information provided by the dimming driver manufacturer