

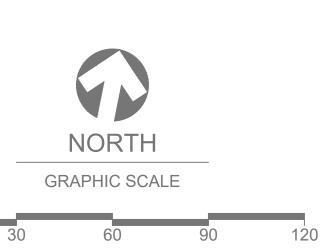
LUMINAIRE LOCA	ATION SUMMARY		
LUM NO.	LABEL	MTG. HT.	TILT
1 - 12	A	18.79	5
13 - 24	A	17.83	5
25	В	1	170
26 - 35	С	3	0
36 - 41	D	12	0
42, 43	D_1	9	0
44, 45	D_1	12	0
46 - 54	E	12	0
55 - 60	F	23	0
61	G	23	0
62, 63	Н	23	0
64 - 74	J	11.33	0
75 - 111	K	20.875	0
112 - 148	K	18.06	0
149	K	18.25	5
150	K	18.599	5
151	K	18.948	5
152	K	19.297	5
153	K	19.646	5
154	K	19.995	5
155	K	20.344	5
156	K	20.693	5
157	K	18.25	5
158	K	18.599	5
159	K	18.948	5
160	K	19.297	5
161	K	19.646	5
162	K	19.995	5
163	K	20.344	5
164	K	20.693	5
165 - 170	L	13	0

- ALL AREA LIGHTS ON NEW 10 FT. OR 20 FT. POLE MOUNTED ON 3 FT. CONCRETE BASE

FOOTCANDLE LEVELS CALC	CULATED AT G	RADE USING	INITIAL LUME	N VALUES	
LABEL	AVG	MAX	MIN	AVG/MIN	MAX/MIN
MLK JR BLVD ROW LINE	0.00	0.0	0.0	N.A.	N.A.
SITE PAVED AREA	3.48	31.4	0.0	N.A.	N.A.
UNDEFINED	0.36	9.8	0.0	N.A.	N.A.
UNDER CANOPY	32.55	44	19	1.71	2.32

ILLUMINATION LEVELS ARE THE RESULT OF CONDITIONS OR REQUESTS BY OTHERS FOR INCIDENTS CAUSED BY INSUFFICIENT LIGHTING AND DOES NOT RECOMMEND THESE LEVELS FOR SECURITY AND SAFETY REASONS

> THIS SITE IS LOCATED IN A REGION WHERE LIGHTING IS REGULATED BY LOCAL ORDINANCES



LUMINAIRE SCHEDL	ILE												
SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	CCT CONVERSION FACTOR	DIMMING (LUMEN MULT.)	LATF	LLF	BUG RATING	WATTS/LUMINAIRE	TOTAL WATTS	[MANUFAC]	CATALOG LOGIC
*	24	Α	SINGLE	11213	0.820	1.000	1.020	0.836	B3-U0-G0	99	2376	CREE, INC.	CAN-228-PS-RM-06-E-UL-XX-525-30K (SPECIAL ORDER)
+	1	В	SINGLE	11450	1.000	1.000	1.020	1.020	B4-U0-G0	72	72	CREE, INC.	OSQ-ML-B-AA-XX w/PGM-1 + OSQM-B-11L-30K7-N3-UL-NM-XX
\odot	10	С	SINGLE	1441	0.820	1.000	1.020	0.836	B1-U0-G1	22	220	CREE, INC.	PWY-EDG-3M-P3-02-E-UL-XX-350-30K (SPECIAL ORDER)
	6	D	SINGLE	11607	0.820	1.000	1.020	0.836	B3-U0-G3	36	216	CREE, INC.	SEC-EDG-3M-WM-02-E-UL-XX-525-30K
	4	D_1	SINGLE	2947	0.820	0.180	1.020	0.151	B1-U0-G1	5.4	21.6	CREE, INC.	SEC-EDG-3M-WM-02-E-UL-XX-525-30K-DIM (SET TO 1.4 V.)
	9	E	SINGLE	5893	0.820	1.000	1.020	0.836	B2-U0-G2	68	612	CREE, INC.	SEC-EDG-3M-WM-04-E-UL-XX-525-30K
	6	F	SINGLE	10799	1.000	1.000	1.020	1.020	B2-U0-G2	72	432	CREE, INC.	OSQ-ML-B-DA-XX + OSQM-B-11L-30K7-4M-UL-NM-XX
*	1	G	2 @ 90 DEGREES	10799	1.000	1.000	1.020	1.020	B2-U0-G2	72	144	CREE, INC.	OSQ-ML-B-DA-XX + OSQM-B-11L-30K7-4M-UL-NM-XX
	2	Н	SINGLE	8299	1.000	1.000	1.020	1.020	B1-U0-G2	72	144	CREE, INC.	OSQ-ML-B-DA-XX + OSQM-B-11L-30K7-4M-UL-NM-XX-w_OSQ-BLSMF
4	11	J	SINGLE	484	1.000	1.000	1.000	1.000	N.A.	6.9	75.9	B-K LIGHTING, INC.	BKLT CH-LED-e69-FL-BZP-12 (BY OTHERS)
	90	K	SINGLE	136	1.000	1.000	1.000	1.000	N.A.	4.12	370.8	BLAIR COMPANIES	4 FT. LINEAR STRIP LIGHT (BY OTHERS, SHOWN FOR CONTRIBUTION)
	6	L	Single	1820	1.000	1.000	1.020	1.020	B0-U0-G1	16	96	CREE, INC.	OSQ-ML-B-DA-XX + OSQM-B-4L-30K7-4M-UL-NM-XX-Q1 w_OSQ-BLSMF

REDLEONARD ASSOCIATES 1340 Kemper Meadow Dr, Forest Park, OH 45240

513-574-9500 | redleonard.com

R3 DAR 8/17/22

DESCRIPTION

REVISED PER UPDATED BASE PLAN AND CANOPY DESIGN (WITH EYEBROW LIGHTING BY OTHERS, SHOWN FOR CONTRIBUTION)

REVISED PER COMMENTS TO ALLOW 0.0 FC ADDITIONAL TRESPASS INTO RIGHT OF WAY (ASSUMING EXISTING AMBIENT LEVELS ALREADY AT OR ABOVE 0.3 FC MAX. ALLOWED BY ORDINANCE). REVISED PER UPDATED SITE PLAN AND BUILDING ELEVATIONS; ALL LIGHTS CHANGED TO 3000K KELVIN TEMPERATURE. WITHIN THIS DOCUMENT(S) OR PROJECT(S). SYMBOLS ARE NOT DRAWN TO SCALE. SIZE IS FOR CLARITY PURPOSES ONLY. SIZES AND DIMENSIONS ARE APPROXIMATE, ACTUAL MEASUREMENTS MAY VARY. DRAWINGS ARE NOT

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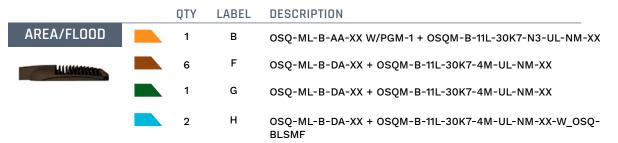
1" = 30' DAR DATE: DWG SIZE: 6/18/20 D

SCALE: LAYOUT BY:

PROJECT NAME: SHEETZ CHAPEL HILL, NC RL-6830-S1-R3

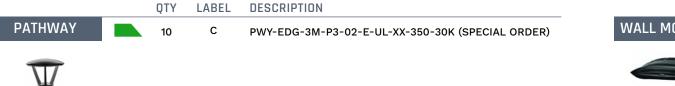






OSQ-BLSMF

OSQ-ML-B-DA-XX + OSQM-B-4L-30K7-4M-UL-NM-XX-Q1 W_





ADDITIONAL FIXTURE INFO





US: creelighting.com [800] 236-6800 Canada: creelighting-canada.com [800] 473-1234

CREE LIGHTING

228 Series™ LED Recessed Canopy Luminaire

Product Specifications

CONSTRUCTION & MATERIALS · Slim, low profile, easy mounting from below or above the deck Luminaire sides are rugged cast aluminum with high performance extruded aluminum heat sink specifically designed for LED

- Luminaire mounts directly to the canopy deck and is secured in place with compression molded trim frame Luminaire is provided with factory applied foam gasket and provides fo a weathertight seal between luminaire housing and canopy deck
- Suitable for single or double skin canopies with 12" [305mm] or 16" [406mm] wide panels. Designed for canopies of 16-22 gauge [maximum 0.065" [1.65mm] thickness]
- Below ceiling serviceable driver tray for ease of upgrade or replacement Field adjustable drive current. Can't exceed drive current specified in part number. Exception is 90 LEDs at 350mA which can be adjusted to 575mA

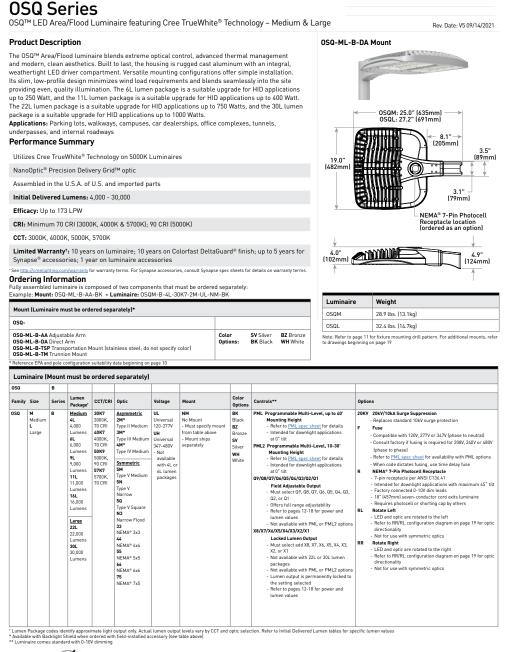
Integral weathertight junction box with 4.5" [114mm] IP threaded connection points. Rated for feed through 8 [4 in, 4 out] #12 AWG

- with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver,
- Weight: See Dimensions and Weight chart on page 1 ELECTRICAL SYSTEM Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers Power Factor: > 0.9 at full load
- Maximum 10V Source Current: 30-60 LED: 0.15mA; 90 LED: 0.30mA Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current REGULATORY & VOLUNTARY QUALIFICATIONS
- Suitable for wet locations Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI
 O/3 /14 2 elevated ambient salt fog conditions as defined in ASTM Standard B 11
- DLC qualified with select SKUs. Refer to https://www.designlights.org/ CA RESIDENTS WARNING: Cancer and Reproductive Harm www.p65warnings.ca.gov

Electrical D	ata*								
		Total Cur	Total Current (A)						
LED Count (x10)	System Watts 120-480V	120V	208V	240V	277V	347V	480V		
350mA		'		,					
09	99	0.83	0.48	0.42	0.38	0.29	0.22		
525mA									
03	54	0.45	0.28	0.25	0.23	0.16	0.12		
06	99	0.83	0.48	0.42	0.38	0.29	0.22		
09	155	1.32	0.76	0.68	0.61	0.45	0.34		
700mA									
03	70	0.58	0.35	0.31	0.28	0.21	0.16		
06	132	1.11	0.66	0.57	0.50	0.39	0.28		
09	201	1.64	0.96	0.84	0.75	0.59	0.44		

Ambient	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Estimated ³ LMF	100K hr Estimated ³ LMF
5°C (41°F)	1.04	1.01	0.99	0.98	0.96
10°C (50°F)	1.03	1.00	0.98	0.97	0.95
15°C (59°F)	1.02	0.99	0.97	0.96	0.94
20°C (68°F)	1.01	0.98	0.96	0.95	0.93
25°C (77°F)	1.00	0.97	0.95	0.94	0.92

ADDITIONAL FIXTURE INFO



Product Specifications



CREE ♦ LIGHTING

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology - Medium & Large

Product Specifications	
CREE TRUEWHITE® TECHNOLOGY	
A revolutionary way to generate high-quality white light, Cree TrueWhite* Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy –	

- a true no compromise solution. CONSTRUCTION & MATERIALS Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high-performance heat sink
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) 0.D. tenon. Adjustable arm mount can be adjusted 180° in 2.5° increments. Transportation mount is constructed of 316 stainless steel and mounts to surface with (4) 3/8" fasteners by others
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180° in 15' degree increments. Trunnion mount secures to surface with $[1]\ 3/4$ " bolt or $[2]\ 1/2$ " or 3/8" bolt or Luminaires ordered with NM mount include 18" [340mm] 18/5 or 16/5 cord exiting the luminaire; when combined with R option, 18" [340mm] 18/7 or 16/7 cord is provided Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- OSQ-ML-B-TM 32.6 lbs. [14.8kg] 36.1 lbs. [16.4kg]
- ELECTRICAL SYSTEM
 Input Voltage: 120-277V or 347-480V, 50/40Hz, Class 1 drivers
 Power Factors 0, 9 at full load
 Total Harmonic Distortion: < 20% at full load
- Integral 10kV surge suppression protection standard; 20kV surge suppression protection When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
 Designed with 0-10V dimming capabilities. Controls by others

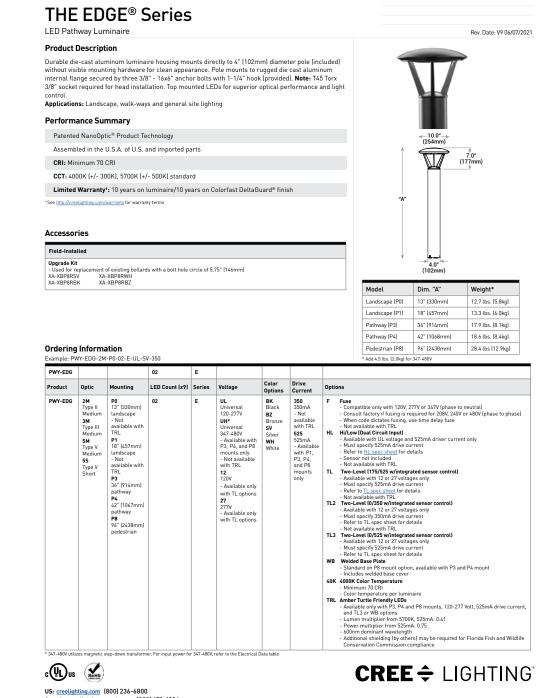
Maximum 10V Source Current: 1.0mA • Operating Temperature Range: -40°C - +40°C (-40°F - +104°F) REGULATORY & VOLUNTARY QUALIFICATIONS

- Suitable for Well Food
 Suitable for Well Coations
 Meets NEMA C82.77 standards
 Drivers and LEDs are UL Recognized in accordance with UL8750
 Enclosure rated IP66 per IEC 60529 when ordered without R option
 Consult factory for CE Certified products
- Certified to ANSI C136.31-2018, 3G bridge and overpass vibration standards ANSI C136.2 10kV (standard) and 20kV (optional) surge suppression protection tested in accordance with IEEE/ANSI C62.41.2 Meets FCC Part 15, Subpart B, Class A limits for conducted and rac Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117 $\,$
- Meets Buy American requirements within ARRA
 RoHS compliant. Consult factory for additional details
 Dark Sky Friends(), IDA Approved when ordered with 30K CCT and direct or transportation
 mounts only. Please refer to https://www.darksky.org/our-work/lighting/lighting-for-industry/blafksp-products/ or most current information

- Refer to WSN-DPM spec sheet for details SimplySNAP On-Site Controller SS450-002 - Verizon* LTE-enabled - Designed for indoor applications table for 120-480V (UL and UH) voltage quires NEMA/ANSI C136.41 7-Pin Dimming (Optional, for increased range, 8dB gain) KIT-ANT420SM itenna, 20' cable and bracke monitoring of luminaire Refer to TL7-HVG spec sheet for details SimplySNAP Central Base Station CBSSW-450-002 Includes On-Site Controller (SS450-002) and Solution could be seen to the controller (SS450-002). KIT-ANT360 - Kit includes antenna, 30° cable and bracket KIT-ANT600

In accordance with IES TM-21, Reported values represent interpolated value to & the tested duration in the IES LM-80 report for the LED. Backlight Shield (Rotated Optics) OSQ-BLSMR (Medium) OSQ-BLSLR (Large) CREE \$ LIGHTING

ADDITIONAL FIXTURE INFO



THE EDGE® LED Pathway Luminaire

Product Specifications

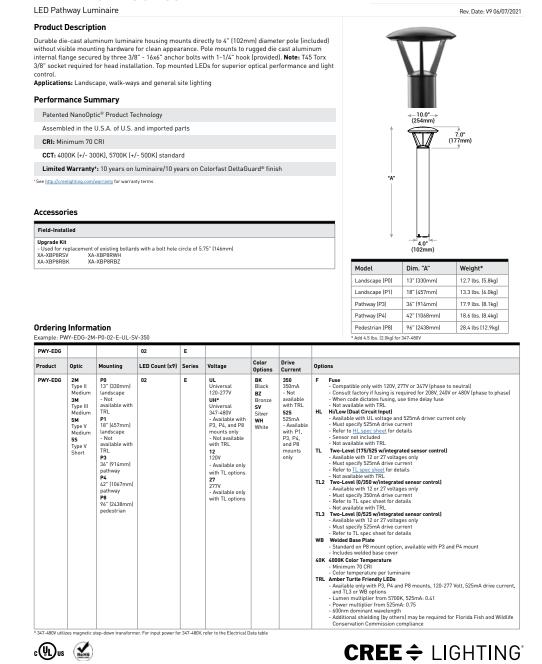
- **CONSTRUCTION & MATERIALS** Durable die-cast aluminum luminaire housing mounts directly to 4"
 [102mm] diameter pole (included) without visible mounting hardware for clean appearance

 Pole mounts to rugged die cast aluminum internal flange secured by three 3/8"-16x6" anchor bolts with 1-1/4" hook(provided).

 Note: 145 Torx 3/8" socket required for head installation
- Open design, passive thermal management for superior lumen with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and

• Weight: See Dimension and Weight Chart on pages 1 and 4

- Power Factor: > 0.9 at full load at 120V
- Suitable for wet locations





Electrical Data*

- Top mounted LEDs for superior optical performance and light control

ELECTRICAL SYSTEM

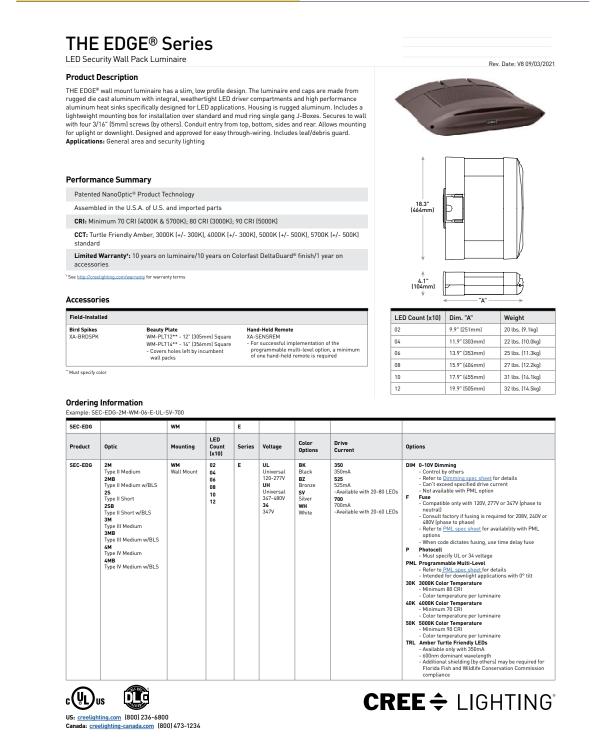
- Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers Total Harmonic Distortion: < 20% at full load at 120V Integral 10kV surge suppression protection standard
- **REGULATORY & VOLUNTARY QUALIFICATIONS**
- Meets IP66 requirements per IEC 60598-1 when ordered without TL ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI
- - Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
 Meets Buy American requirements within ARRA RoHS compliant. Consult factory for additional details • A CA RESIDENTS WARNING: Cancer and Reproductive Harm – www.p65warnings.ca.gov

22 28 0.18 0.12 0.10 0.10 0.09 0.13 02 34 40 0.29 0.19 0.17 0.15 0.12 0.13 * Electrical data at 25°C [77°F]. Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V -/- 10% 40K/57K 1.04 1.01 TRL 1.06 1.06 1.06 1.06 1.06 40K/57K 1.03 1.00 0.98 0.97 0.95 40K/57K 1.01 0.98 0.96 0.95 0.93 TRL 1.01 1.01 1.01 1.01 1.01 *F) 40K/57K 1.00 0.97 0.95 0.94 0.92 TRL 1.00 1.00 1.00 1.00 1.00

accordance with IES TM-21, Reported values represent interpolated values based on time durations that are to 6x the tested duration in the IES LM-80 report for the LED.

| System | System | Watts | Watts | 120-277V | 347-480V | 120V | 208V | 240V | 277V | 347V | 480V |

ADDITIONAL FIXTURE INFO



THE EDGE® LED Security Wall Pack Luminaire

Product Specifications

- CONSTRUCTION & MATERIALS Slim, low profile design
- . Luminaire sides are rugged die cast aluminum with integral weathertight LED driver compartment and high performance aluminum heat sinks specifically designed for LED applications
- Housing is rugged aluminum
- Furnished with low copper, light weight mounting box designed for installation over standard and mud ring single gang J-Boxes Luminaire can also be direct mounted to a wall and surface wired
- Secures to wall with four 3/16" (5mm) screws (by others)
- · Allows mounting for uplight or downlight Designed and approved for easy through-wiring Includes leaf/debris guard
- Weight: See Dimensions and Weight Chart on page 1

- Input Voltage: 120–277V or 347–480V, 50/60Hz, Class 1 drivers Power Factor: > 0.9 at full load Total Harmonic Distortion: < 20% at full load Integral weathertight J-Box with leads (wire nuts) for easy power hook $% \left\{ 1,2,\ldots ,n\right\} =0$
- Integral 10kV surge suppression protection standard When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
 Maximum 10V Source Current; 20 LED (350mA): 10mA; 20LED (525 & 700 mA) and 40-120 LED: 0.15mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- · Suitable for wet locations . Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated
- Enclosure rated IP66 per IEC 60529 when ordered without P or PML
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified with select SKUs. Refer to https://www.designlights.org/search/ for most current information Meets Buy American requirements within ARRA

LED		System	Total 0	Total Current (A)						
Count (x10)	CCT	Watts 120-480V	120V	208V	240V	277V	347V	4		
350mA										
	30K/40K/50K/57K	25	0.21	0.13	0.11	0.10	0.08	0.		
02	TRL	19	0.16	0.09	0.08	0.07	0.05	0.		
	30K/40K/50K/57K	46	0.36	0.23	0.21	0.20	0.15	0.		
04	TRL	35	0.29	0.17	0.15	0.13	0.10	0.		
٠.	30K/40K/50K/57K	66	0.52	0.31	0.28	0.26	0.20	0.		
06	TRL	50	0.41	0.24	0.21	0.18	0.14	0.		
08	30K/40K/50K/57K	90	0.75	0.44	0.38	0.34	0.26	0.		
	TRL	68	0.57	0.33	0.28	0.25	0.20	0.		
10	30K/40K/50K/57K	110	0.92	0.53	0.47	0.41	0.32	0.		
10	TRL	83	0.69	0.40	0.35	0.30	0.24	0.		
40	30K/40K/50K/57K	130	1.10	0.63	0.55	0.48	0.38	0.		
12	TRL	99	0.82	0.48	0.41	0.36	0.28	0.		
525mA										
02	30K/40K/50K/57K	37	0.30	0.19	0.17	0.16	0.12	0.		
04	30K/40K/50K/57K	70	0.58	0.34	0.31	0.28	0.21	0.		
06	30K/40K/50K/57K	101	0.84	0.49	0.43	0.38	0.30	0.		
08	30K/40K/50K/57K	133	1.13	0.66	0.58	0.51	0.39	0.		
700mA										
02	30K/40K/50K/57K	50	0.41	0.25	0.22	0.20	0.15	0.		
04	30K/40K/50K/57K	93	0.78	0.46	0.40	0.36	0.27	0.		
06	30K/40K/50K/57K	134	1.14	0.65	0.57	0.50	0.39	0.		

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%

Ambient	сст	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Reported ² / Estimated ³ LMF	100K Estim LMF
5°C (41°F)	30K/40K/50K/57K	1.04	1.03	1.03	1.03 ²	1.03
	TRL	1.06	1.06	1.06	1.063	1.06
10°C (50°F)	30K/40K/50K/57K	1.03	1.02	1.02	1.022	1.02
	TRL	1.04	1.04	1.04	1.043	1.04
	30K/40K/50K/57K	1.02	1.01	1.01	1.012	1.01
15°C (59°F)	TRL	1.03	1.03	1.03	1.033	1.03
	30K/40K/50K/57K	1.01	0.99	0.99	0.992	0.99
20°C (68°F)	TRL	1.01	1.01	1.01	1.013	1.01
0500 (5505)	30K/40K/50K/57K	1.00	0.98	0.98	0.982	0.98
25°C (77°F)	TRL	1.00	1.00	1.00	1.00³	1.00

² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that up to 6x the tested duration in the IES LM-80 report for the LED.
³ Ferimanda values are relatilated and represent time durations that exceed the 6x test duration of the LED.

US: creelighting.com [800] 236-6800 Canada: creelighting-canada.com [800] 473-1234

CREE \$\DECE\text{LIGHTING}

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CREE \$\Delta\$ LIGHTING

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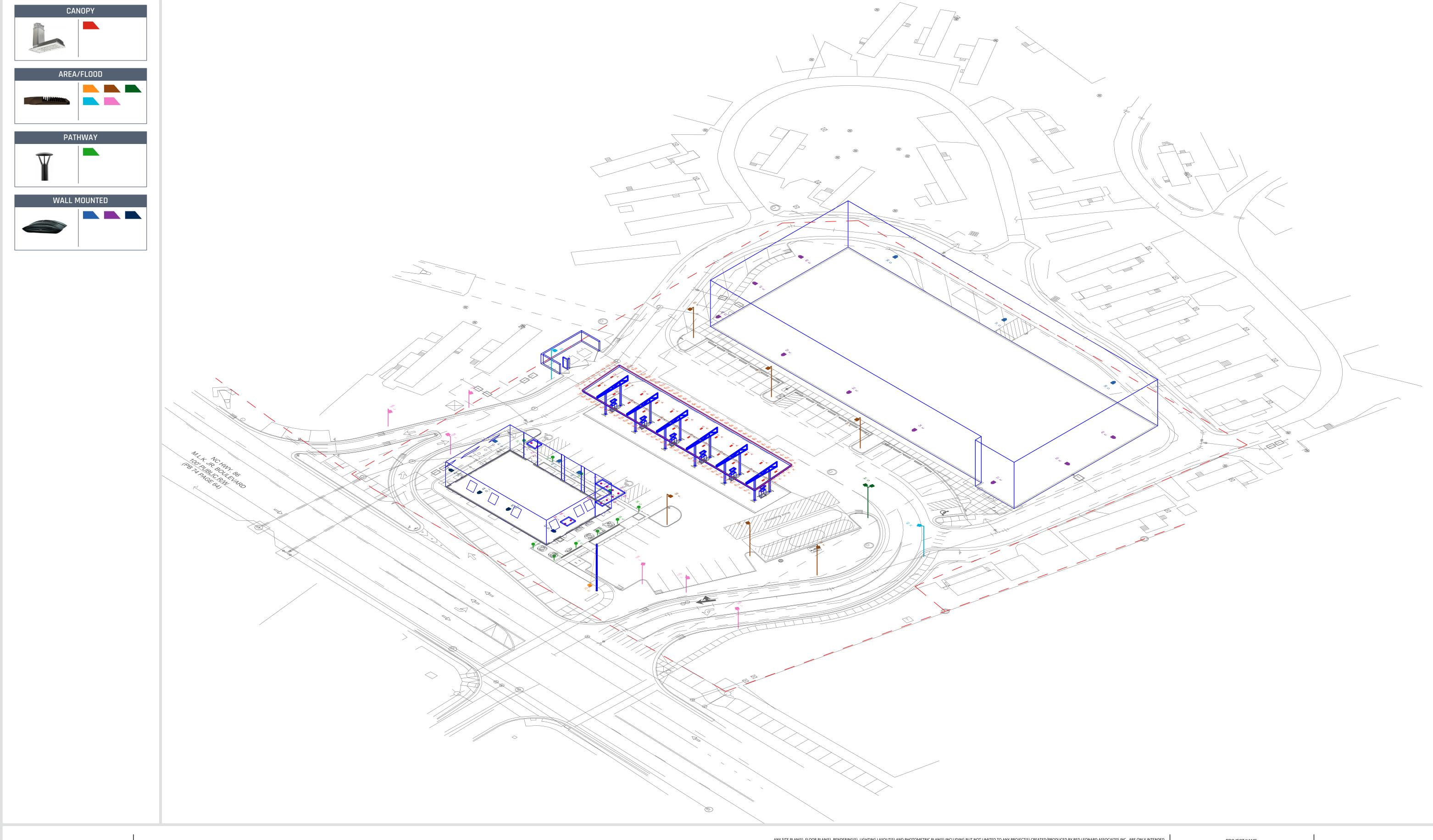
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