

LUMINAIRE LOCATION SUMMARY			
LUM NO.	LABEL	MTG. HT.	TILT
1 - 12	A	18.79	5
13 - 24	A	17.83	5
25	B	1	170
26 - 35	C	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	H	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

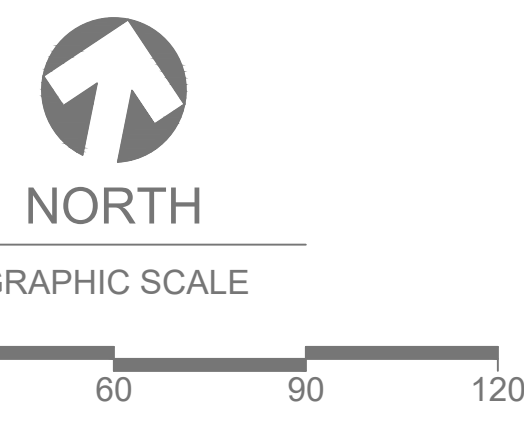
NOTE:  
- ALL AREA LIGHTS ON NEW 10 FT. OR 20 FT. POLE MOUNTED ON 3 FT. CONCRETE BASE

FOOTCANDLE LEVELS CALCULATED AT GRADE USING INITIAL LUMEN 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. RED LEONARD ASSOCIATES IS NOT RESPONSIBLE 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 SCHEDULE													
SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	CCT CONVERSION FACTOR	DIMMING (LUMEN MULT.)	LATF	LLF	BUG RATING	WATTS/LUMINAIRE	TOTAL WATTS	[MANUFAC]	CATALOG LOGIC
	24	A	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	B	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
	10	C	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	H	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
	11	J	SINGLE	484	1.000	1.000	1.000	N.A.		6.9	75.9	B-K LIGHTING, INC.	BKLT CH-LED-669-FL-BZP-12 (BY OTHERS)
	90	K	SINGLE	136	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



DISCLAIMER

ANY SITE PLAN(S), FLOOR PLAN(S), RENDERING(S), LIGHTING LAYOUT(S) AND PHOTOMETRIC PLAN(S) INCLUDING BUT NOT LIMITED TO ANY PROJECT(S) CREATED/PRODUCED BY RED LEONARD ASSOCIATES INC., ARE ONLY INTENDED FOR ILLUSTRATION AND QUOTING PURPOSES ONLY. RED LEONARD ASSOCIATES HAS THE RIGHT TO USE THIRD PARTY LASERS, SCANNERS, AND CAMERAS BUT ACTUAL PROJECT CONDITIONS, DIMENSIONS, AND ACCURACY OF MEASUREMENTS MAY DIFFER FROM THESE OR ANY PARAMETERS. RED LEONARD ASSOCIATES INC. ASSUMES NO LIABILITY FOR WHAT IS CREATED/PRODUCED IN THESE RENDERINGS. THIS INCLUDES BUT IS NOT LIMITED TO THE USE OF, INSTALLATION OF AND/OR INTEGRITY OF EXISTING BUILDINGS, SURROUNDING AREA FOR PRODUCTS) SUCH AS EXISTING POLES), ANCHOR BOLTS), BASES), ARCHITECTURAL AND SIGNAGE STRUCTURES), LANDSCAPING PLAN(S), LIGHTING PLAN(S), FIXTURE SELECTION(S) AND PLACEMENT, MATERIAL(S), COLOR ACCURACY, TEXTURE(S), AND ANYTHING ATTRIBUTED TO PHOTO REALISM THAT IS CREATED. FURTHERMORE, RED LEONARD ASSOCIATES INC. DOES NOT ASSUME LIABILITY WHATSOEVER FOR ANY PURCHASES MADE BY CLIENT BEFORE, DURING, OR AT THE CONCLUSION OF THE PUBLISHED WORK. THE CUSTOMER, ITS RELATIVE AFFILIATES, AS WELL AS ANY OTHER PERSON(S) IN VIEWING OF THIS PRODUCT IS RESPONSIBLE FOR VERIFYING COMPLIANCE WITH ANY BUT NOT LIMITED TO ALL CODES, PERMITS, RESTRICTIONS, INSTRUCTIONS, PURCHASES, AND INSTALLATIONS OF OBJECTS VIEWED 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 INTENDED FOR ENGINEERING OR CONSTRUCTION USE. THIS DOCUMENT, ANY RED LEONARD DRAWING(S) OR PROJECT(S) IS NOT TO BE USED AND/OR INTENDED FOR ENGINEERING OR CONSTRUCTION PURPOSES, BUT FOR ILLUSTRATIVE PURPOSES ONLY. ANY LOCATIONS OF EMERGENCY LIGHTING SHOWN WERE PROVIDED BY OTHERS. RED LEONARD ASSOCIATES IS NOT RESPONSIBLE FOR INSUFFICIENT LIGHTING DURING AN EMERGENCY EVENT. ANY USE OF THIS DOCUMENTATION AND/OR OTHER ARTICLES PRODUCED BY RED LEONARD WITHOUT WRITTEN AUTHORIZATION FROM JAVNE J. LEONARD IS STRICTLY PROHIBITED.

REV.	BY	DATE	DESCRIPTION
R1	DAR	4/29/22	REVISED PER UPDATED BASE PLAN AND CANOPY DESIGN (WITH EYEBROW LIGHTING BY OTHERS, SHOWN FOR CONTRIBUTION)
R2	DAR	6/23/22	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)
R3	DAR	8/17/22	REVISED PER UPDATED SITE PLAN AND BUILDING ELEVATIONS; ALL LIGHTS CHANGED TO 3000K KELVIN TEMPERATURE.





QTY	LABEL	DESCRIPTION
24	A	CAN-228-PS-RM-06-E-UL-XX-525-30K (SPECIAL ORDER)

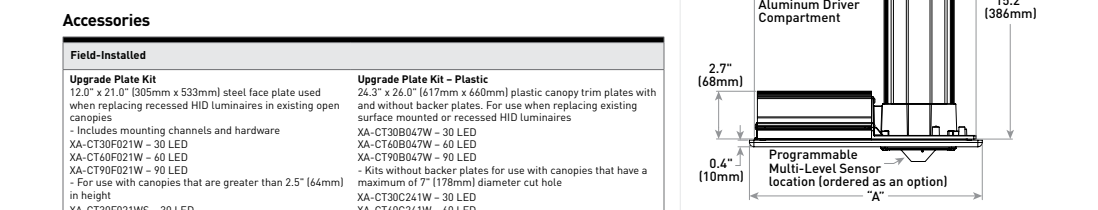


#### 228 Series™ LED Recessed Canopy Luminaire

**Product Description**  
Slim, low profile, easy mounting from below or above the deck. Luminaire ends are rugged cast aluminum with high performance extruded aluminum heat sinks specifically designed for LED applications with high performance extruded aluminum heat sinks specifically designed for LED applications.

#### Performance Summary

Patented NanoQLogic™ Product Technology
Assembled in the U.S.A. of U.S. and imported parts
CBF: Minimum 70 CRI
UCT: 4000K (L-), 3000K (L-), 5000K standard
Limited Warranty*: 10 years on Luminaire/10 years on Colorfast DeltaGuard™ finish



#### Accessories

Canopy Face Kit	Upgrade Face Kit - Power
1/2" x 2 1/2" x 1/2" (6.35x6.35x1.27) Steel plate with fasteners	2 1/2" x 2 1/2" x 1/2" (6.35x6.35x1.27) Steel plate with fasteners
1/2" x 2 1/2" x 1/2" (6.35x6.35x1.27) Aluminum plate with fasteners	2 1/2" x 2 1/2" x 1/2" (6.35x6.35x1.27) Aluminum plate with fasteners

#### Ordering Information

Canopy	Canopy	Canopy
3030A	3030A	3030A

QTY	LABEL	DESCRIPTION
1	B	OSQ-ML-B-AA-XX + OSQM-B-1TL-30K7-N3-UL-NM-XX
6	F	OSQ-ML-B-DA-XX + OSQM-B-1TL-30K7-4M-UL-NM-XX
1	G	OSQ-ML-B-DA-XX + OSQM-B-1TL-30K7-4M-UL-NM-XX
2	H	OSQ-ML-B-DA-XX + OSQM-B-1TL-30K7-4M-UL-NM-XX-W_OSO-BLSMF
6	L	OSQ-ML-B-DA-XX + OSQM-B-1TL-30K7-4M-UL-NM-XX-Q1 W_OSO-BLSMF

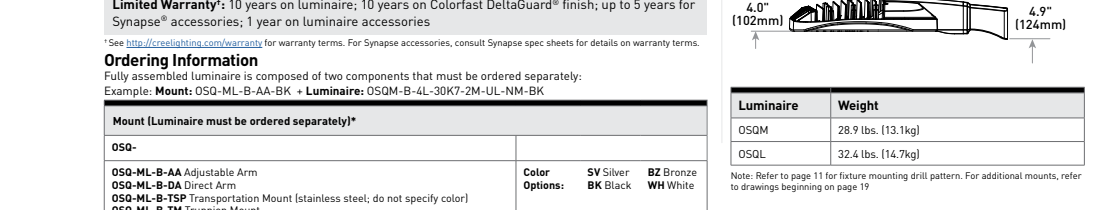


#### OSQ Series OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite™ Technology - Medium & Large

**Product Description**  
The OSQ™ Area/Flood luminaire boasts advanced optical control, advanced thermal management and rugged cast aluminum housing. Built to last, the housing is rugged cast aluminum with an integral, weatherlight LED driver compartment. Versatile mounting configurations offer simple installation.

#### Performance Summary

Patented NanoQLogic™ Product Technology
Assembled in the U.S.A. of U.S. and imported parts
CBF: Minimum 70 CRI
UCT: 4000K (L-), 3000K (L-), 5000K standard
Limited Warranty*: 10 years on Luminaire/10 years on Colorfast DeltaGuard™ finish, up to 5 years for OSQ-ML-B-DA-XX



#### Accessories

Mount Luminaire must be ordered separately
OSQ-ML-B-DA-XX
OSQ-ML-B-DA-XX-W_OSO-BLSMF
OSQ-ML-B-DA-XX-Q1 W_OSO-BLSMF

#### Ordering Information

Luminaire	Luminaire	Luminaire
1000W	1000W	1000W

**CREE LIGHTING**  
US: cree.com/usa (800) 234-4800  
Canada: cree.com/ca (800) 473-1234

QTY	LABEL	DESCRIPTION
10	C	PWY-EDG-3M-P3-02-E-UL-XX-350-30K (SPECIAL ORDER)



#### THE EDGE® Series LED Pathway Luminaire

**Product Description**  
Rugged die-cast aluminum luminaire housing mounts directly to a 1/2" (12.7mm) diameter pole (included) without the need for a mounting bracket. The luminaire is rugged cast aluminum with an integral, weatherlight LED driver compartment.

#### Performance Summary

Patented NanoQLogic™ Product Technology
Assembled in the U.S.A. of U.S. and imported parts
CBF: Minimum 70 CRI
UCT: 4000K (L-), 3000K (L-), 5000K standard
Limited Warranty*: 10 years on Luminaire/10 years on Colorfast DeltaGuard™ finish



#### Accessories

Mount Luminaire must be ordered separately
OSQ-ML-B-DA-XX
OSQ-ML-B-DA-XX-W_OSO-BLSMF
OSQ-ML-B-DA-XX-Q1 W_OSO-BLSMF

#### Ordering Information

Pathway	Pathway	Pathway
1000W	1000W	1000W

**CREE LIGHTING**  
US: cree.com/usa (800) 234-4800  
Canada: cree.com/ca (800) 473-1234

QTY	LABEL	DESCRIPTION
6	D	SEC-EDG-3M-WM-02-E-UL-XX-525-30K
4	D_1	SEC-EDG-3M-WM-02-E-UL-XX-525-30K-DIM (SET TO 1.4 W)
9	E	SEC-EDG-3M-WM-04-E-UL-XX-525-30K

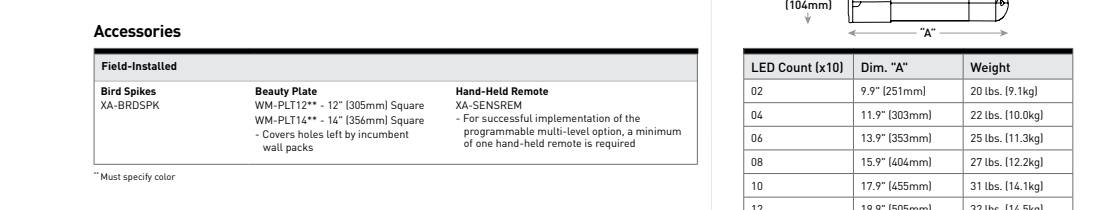


#### THE EDGE® Series LED Security Wall Pack Luminaire

**Product Description**  
The EDGE™ wall-mount luminaire has a slim, low profile design. The luminaire and cage are made from rugged die-cast aluminum with integral, weatherlight LED driver compartment and high performance aluminum heat sinks specifically designed for LED applications.

#### Performance Summary

Patented NanoQLogic™ Product Technology
Assembled in the U.S.A. of U.S. and imported parts
CBF: Minimum 70 CRI
UCT: 4000K (L-), 3000K (L-), 5000K standard
Limited Warranty*: 10 years on Luminaire/10 years on Colorfast DeltaGuard™ finish† (not on accessories)



#### Accessories

Mount Luminaire must be ordered separately
OSQ-ML-B-DA-XX
OSQ-ML-B-DA-XX-W_OSO-BLSMF
OSQ-ML-B-DA-XX-Q1 W_OSO-BLSMF

#### Ordering Information

Security	Security	Security
1000W	1000W	1000W

**CREE LIGHTING**  
US: cree.com/usa (800) 234-4800  
Canada: cree.com/ca (800) 473-1234

#### 228 Series™ LED Recessed Canopy Luminaire

#### Product Specifications

Electrical Data*	System	Total Current (A)				
LED Count	120V	208V	240V	277V	347V	480V
3030A	19	0.63	0.48	0.42	0.38	0.32
3030A	34	0.83	0.62	0.52	0.47	0.38
3030A	54	1.12	0.83	0.72	0.65	0.52
3030A	74	1.51	1.12	0.95	0.85	0.68
3030A	114	2.12	1.51	1.30	1.15	0.92
3030A	154	2.95	2.12	1.80	1.60	1.28

#### REGULATORY & VOLUNTARY QUALIFICATIONS

- UL Listed for wet locations
- Meets FCC Part 15, Subpart B, Class A limits on conducted and radiated emissions
- Meets IEC Part 15, Subpart 18, Class A limits on conducted and radiated emissions
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2

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

#### Product Specifications

Electrical Data*	System	Total Current (A)				
LED Count	120V	208V	240V	277V	347V	480V
1000W	19	0.63	0.48	0.42	0.38	0.32
1000W	34	0.83	0.62	0.52	0.47	0.38
1000W	54	1.12	0.83	0.72	0.65	0.52
1000W	74	1.51	1.12	0.95	0.85	0.68
1000W	114	2.12	1.51	1.30	1.15	0.92
1000W	154	2.95	2.12	1.80	1.60	1.28

#### REGULATORY & VOLUNTARY QUALIFICATIONS

- UL Listed for wet locations
- Meets FCC Part 15, Subpart B, Class A limits on conducted and radiated emissions
- Meets IEC Part 15, Subpart 18, Class A limits on conducted and radiated emissions
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2

#### THE EDGE™ LED Pathway Luminaire

#### Product Specifications

Electrical Data*	System	Total Current (A)				
LED Count	120V	208V	240V	277V	347V	480V
1000W	19	0.63	0.48	0.42	0.38	0.32
1000W	34	0.83	0.62	0.52	0.47	0.38
1000W	54	1.12	0.83	0.72	0.65	0.52
1000W	74	1.51	1.12	0.95	0.85	0.68
1000W	114	2.12	1.51	1.30	1.15	0.92
1000W	154	2.95	2.12	1.80	1.60	1.28

#### REGULATORY & VOLUNTARY QUALIFICATIONS

- UL Listed for wet locations
- Meets FCC Part 15, Subpart B, Class A limits on conducted and radiated emissions
- Meets IEC Part 15, Subpart 18, Class A limits on conducted and radiated emissions
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2

#### THE EDGE™ LED Security Wall Pack Luminaire

#### Product Specifications

Electrical Data*	System	Total Current (A)				
LED Count	120V	208V	240V	277V	347V	480V
1000W	19	0.63	0.48	0.42	0.38	0.32
1000W	34	0.83	0.62	0.52	0.47	0.38
1000W	54	1.12	0.83	0.72	0.65	0.52
1000W	74	1.51	1.12	0.95	0.85	0.68
1000W	114	2.12	1.51	1.30	1.15	0.92
1000W	154	2.95	2.12	1.80	1.60	1.28

#### REGULATORY & VOLUNTARY QUALIFICATIONS

- UL Listed for wet locations
- Meets FCC Part 15, Subpart B, Class A limits on conducted and radiated emissions
- Meets IEC Part 15, Subpart 18, Class A limits on conducted and radiated emissions
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2
- ANSI/CES-128V surge protection, tested in accordance with IEEEANSI C62.11.2

**REDLEONARD ASSOCIATES**  
1340 Kemper Meadow Dr. Forest Park, OH 45424  
513-674-9500 | redleonard.com

**CREE LIGHTING**  
US: cree.com/usa (800) 234-4800  
Canada: cree.com/ca (800) 473-1234

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**SHEETZ**  
MADE TO ORDER  
PROJECT NAME: SHEETZ CHAPEL HILL, NC  
DRAWING NUMBER: RL-6830-S1-R3



**CANOPY**



**AREA/FLOOD**



**PATHWAY**



**WALL MOUNTED**