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

NOTES:

- ALL AREA LIGHTS ON NEW 17 FT. POLE MOUNTED ON 3 FT. CONCRETE BASE

FOOTCANDLE LEVELS CALCULATED AT GR	RADE USING I	NITIAL LUMEN	VALUES (UNO)	
LABEL	AVG	MAX	MIN	AVG/MIN	MAX/MIN
PAVED AREA	2.21	5.3	0.4	5.53	13.25
UNDEFINED	0.27	6.0	0.0	N.A.	N.A.
UNDEFINED (3' BELOW SITE)	0.06	0.6	0.0	N.A.	N.A.
UNDER CANOPY	5.07	6	3	1.69	2.00

LUM NO.	LABEL	MTG. HT.
1	A3	20
2	A4	20
3	A4	20
4	С	15
5	С	15
6	С	15
7	С	15
8	С	15
9	С	15
10	W2	15
11	W4	15
12	W4	15
13	W4	15
14	W4	15
15	W4	15
16	W4	15

	LUMINAIRE SCHEDULE											
	SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	LLF	DIMMING LUMEN MULTIPLIER	BUG RATING	WATTS/LUMINAIRE	TOTAL WATTS	MANUFACTURER	CATALOG LOGIC
	-	1	A3	Single	2030	1.020	1.000	B0-U0-G1	18	18	Cree Inc	OSQ-ML-C-XX-XX + OSQM-C-6L-30K7-3B-UL-NM-XX-Q1
	-	2	A4	Single	4970	1.020	1.000	B1-U0-G2	50	100	Cree Lighting	OSQ-ML-C-XX-XX + OSQM-C-16L-30K7-4B-UL-NM-XX-Q1
•		6	С	Single	7038	1.030	0.140	B3-U0-G0	10.34	62.04	CREE, INC.	CAN-304-PS-RS-04-E-UL-XX-700-30K-DIM (SET @ 1.1V)(SPECIAL ORDER)
	>	1	W2	Single	5581	1.030	0.690	B2-U0-G2	42	42	Cree Lighting	SEC-EDG-3M-WM-06-E-UL-XX-525-30K-DIM (SET @ 5.2V)
	>	6	W4	Single	6293	1.030	1.000	B1-U0-G2	48.25	289.5	Lithonia Lighting	DSXW1LED- P6-30K-80CRI-T4M-MVOLT-XX

^{*} LUMENS ARE BASED ON CCT=5700K X .763 SCALE FACTOR FOR CCT=3000K



ASSOCIATES

1340 Kemper Meadow Dr, Forest Park, OH 45240
513-574-9500 | redleonard.com

REV. BY DATE

R1 FNW 11/28/22

R2 JAN 05/26/23

R3 FNW 7/11/23

R4 JAN 1/20/25

R5 JAN 1/22/25

DESCRIPTION

REVISED TO USE MAJORITY OF AREA
LIGHTS TO LIGHT THE SITE
REVISED FOR UPDATED SITE PLAN
REVISED PER UPDATED SITE PLAN
REVISED PER CLIENT COMMENTS
REVISED PER UPDATED SITE PLAN & MARKUP

 REV.
 BY
 DATE

 R6
 JAN
 7/14/25

 R7
 JAN
 7/14/25

 R8
 JAN
 7/24/25

 R9
 JAN
 9/17/25

 R10
 JSG
 10/7/25

DATE
7/14/25
REVISED PER UPDATED SITE PLAN
7/14/25
ADDED LIGHTING FOR NEW PARKING AREA
7/24/25
ADDED WALLPACKS TO PRIVACY FENCE
9/17/25
UPDATED SITE PLAN, REMOVED W5, AREA LIGHTS AT 20'
10/7/25
CORRECT AREA LIGHT MOUNTING HEIGHTS IN LUMINAIRE LOCATION SUMMARY

DISCLAIMER

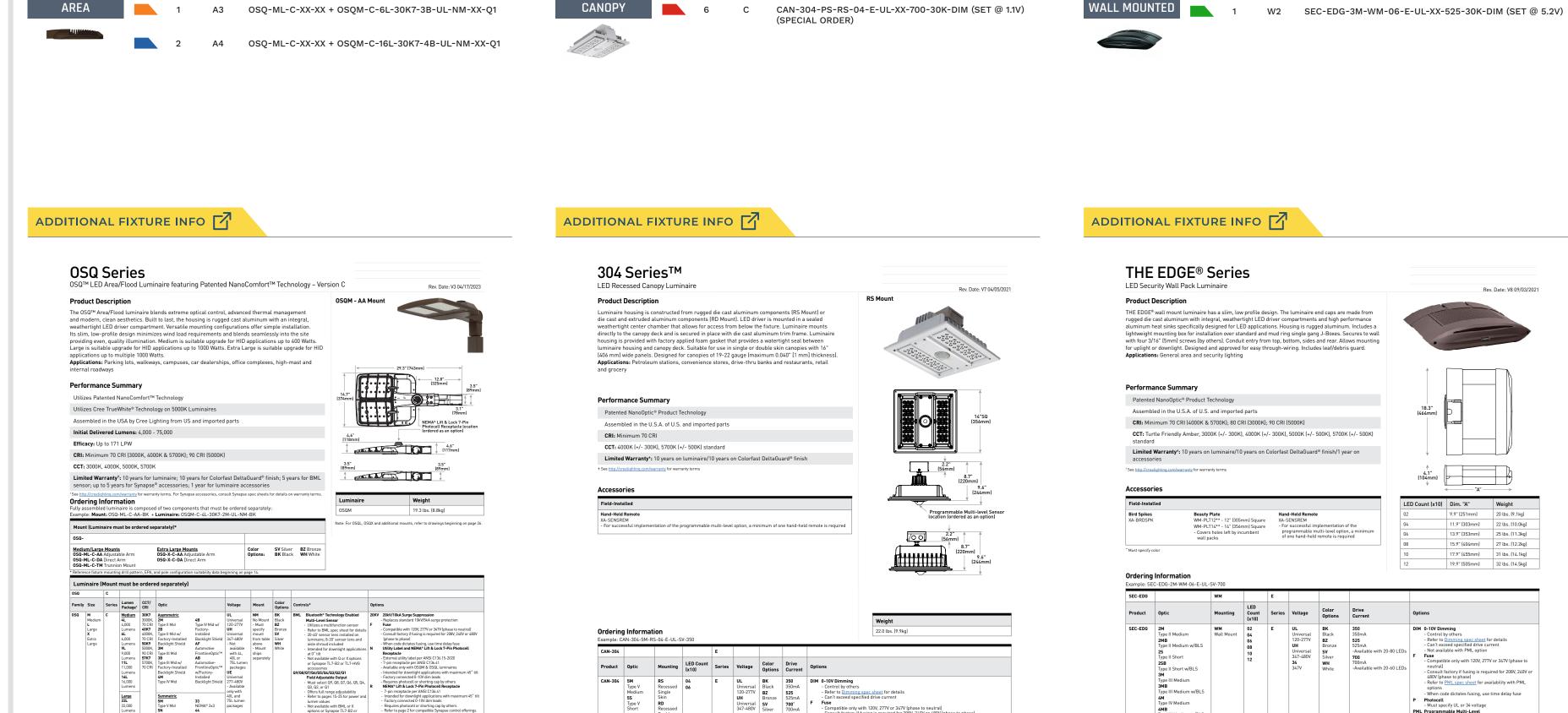
ANY SITE PLAN(S), FLOOR PLAN(S), RENDERING(S), LIGHTING LAYOUT(S) AND PHOTOMETRIC PLAN(S) INCLUDING BUT NOT LIMITED TO ANY PROJECT(S) CREATED/PRODUCED BY RED LEONARD ASSOCIATES INC., ARE ONLY INTENDED FOR ILLUSTRATION AND QUOTING PURPOSES ONLY. RED LEONARD ASSOCIATES HAS THE RIGHT TO USE THIRD PARTY 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 RECREATIONS. THIS INCLUDES BUT IS NOT LIMITED TO THE USE OF, INSTALLATION OF AND/OR INTEGRITY OF EXISTING BUILDING(S), SURROUNDING AREA FOR PRODUCT(S) SUCH AS EXISTING POLE(S), ANCHOR BOLT(S), BASE(S), ARCHITECTURAL AND SIGNAGE STRUCTURE(S), 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 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 JAYME J. LEONARD IS STRICTLY PROHIBITED.

SCALE: LAYOUT BY:
1" = 20' FNW

DWG SIZE: DATE:
D 11/2/22

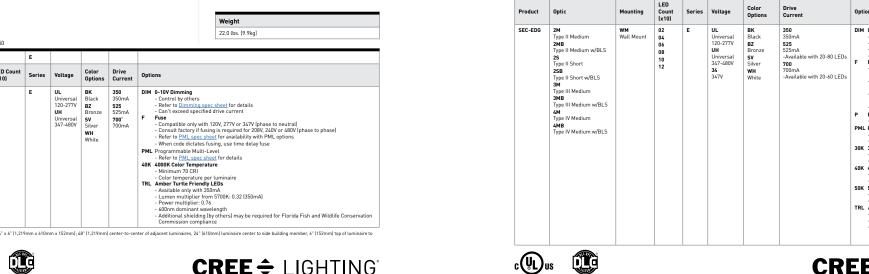
CREW CARWASH
MUNSTER, IN
DRAWING NUMBER:
RL-8445-S1-R10

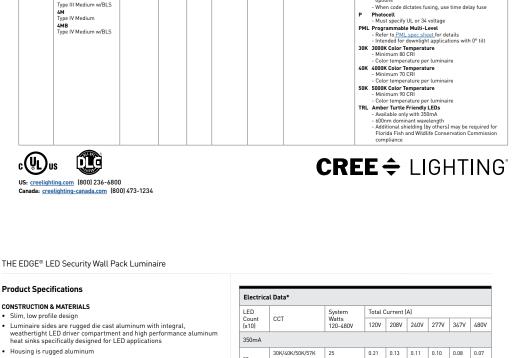




QTY LABEL DESCRIPTION

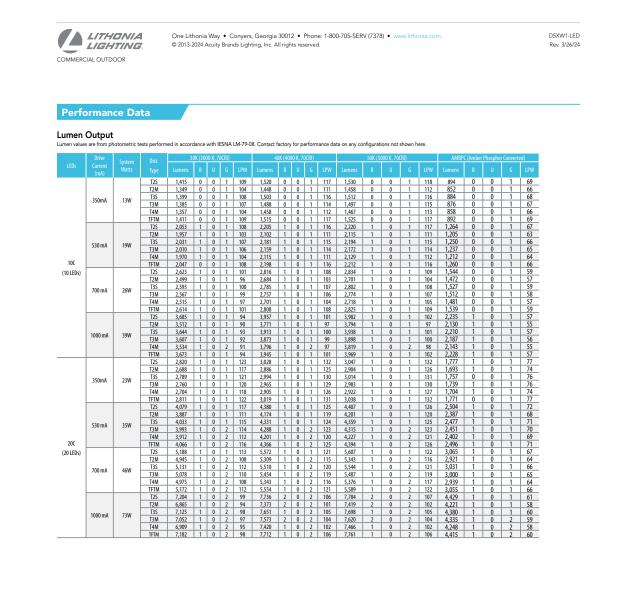
C CAN-304-PS-RS-04-E-UL-XX-700-30K-DIM (SET @ 1.1V)





QTY LABEL DESCRIPTION

WALL MOUNTED



QTY LABEL DESCRIPTION

D-Series Size 1

LED Wall Luminaire

Back Box (BBW, E20WC)

6-3/8"

13-3/4" **BBW** (34.9 cm) **Weight:**

DSXW1 LED 10C 10 LEDs 350 350 mA 30K 3000 K T2S Type II Short MVOLT 2 Shipped included Shipped installed

| Value | Valu

4" **E20WC** 10.2 cm) **Weight:**

The D-Series Wall luminaire is a stylish, fully

integrated LED solution for building-mount

applications. It features a sleek, modern design

and is carefully engineered to provide long-lasting

energy-efficient lighting with a variety of optical

and control options for customized performance.

With an expected service life of over 20 years of

over comparable 250W metal halide luminaires,

the D-Series Wall is a reliable, low-maintenance

back box (for conduit entry) 5 PIRH 180° motion/ambient light sensor, <15′ mtg ht ¹⁷
180° motion/ambient light sensor, <15′ mtg ht ¹⁷
180° motion/ambient light sensor, 15-30′ mtg ht ¹⁷

PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc 1.7

E20WC Emergency battery backup (includes external component enclosure), CA Title 20 compliant ^f

nighttime use and up to 74% in energy savings

lighting solution that produces sites that are

exceptionally illuminated.

DDBTXD Textured dark bronze DSSTXD Textured sandstone

DNATXD Textured natural aluminum

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

BAA BABA

Width:

Depth:

Height:

DF Double fuse (208, 240 or 480V) 3.10 VG Vandal guard DNAXD Natural aluminum DBLBXD Textured black

DDL Diffused drop lens DWHXD White

NO 125

2 MVDLT driver operates on any line voltage from 120-277V (50/60 Hz).

3 MVDLT driver operates on any line voltage from 120-277V (50/60 Hz).

3 Single fuse (5F) requires 120, 27 70 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option. Or hy available with 20C, 700mA or 1000mA. Not available with PIR or

installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.

Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).

6 W4 DSXW1LED- P6-30K-80CRI-T4M-MVOLT-XX

WALL MOUNTED

Specifications

HS House-side shield 11

SPD Separate surge protection 12

Accessories

DSXWHS U House-side shield (one per light engine)

Luminaire

Depth:

Rev. Date: V8 09/03/2021

11.9" (303mm) 22 lbs. (10.0kg)

15.9" [404mm] 27 lbs. [12.2kg]

17.9" [455mm] 31 lbs. [14.1kg] 19.9" [505mm] 32 lbs. [14.5kg]

Not available with PML option Fuse
 Compatible only with 120V, 277V or 347V (phase to neutral)

 0.41
 0.24
 0.21
 0.18
 0.14
 0.10

 0.75
 0.44
 0.38
 0.34
 0.26
 0.20

 0.57
 0.33
 0.28
 0.25
 0.20
 0.14

 0.92
 0.53
 0.47
 0.41
 0.32
 0.24

 0.30
 0.19
 0.17
 0.16
 0.12
 0.10

 0.58
 0.34
 0.31
 0.28
 0.21
 0.16

 0.84
 0.49
 0.43
 0.38
 0.30
 0.22

 1.13
 0.66
 0.58
 0.51
 0.39
 0.28

| 30K/40K/50K/57K | 50 | 0.41 | 0.25 | 0.22 | 0.20 | 0.15 | 0.12 | | 30K/40K/50K/57K | 93 | 0.78 | 0.46 | 0.40 | 0.36 | 0.27 | 0.20 | | 30K/40K/50K/57K | 134 | 1.14 | 0.45 | 0.57 | 0.50 | 0.39 | 0.29 |

neutrall
Consult factory if fusing is required for 208V, 240V or
480V (phase to phase)
Refer to PML spec sheet for availability with PML
options
When code dictates fusing, use time delay fuse

DIM 0-10V Dimming
- Control by others

13.9" (353mm) 25 lbs. (11.3kg)

ADDITIONAL FIXTURE INFO

Product Specifications	Electrical	Data*								
CONSTRUCTION & MATERIALS	Total Current (A)									
 RS Mount luminaire housing is constructed from rugged die cast aluminum and incorporates integral, high performance heatsink fins specifically designed for LED canopy applications 	LED Count (x10)	System Watts 120-480V	120V	208V	240V	277V	347V	480V		
RD Mount luminaire housing is constructed from rugged die cast aluminum and features high performance extruded aluminum heatsinks		120-4007	1201	2007	2401		0471			
specifically designed for LED canopy applications	350mA									
LED driver is mounted in a sealed weathertight center chamber that allows for access from below the luminaire	04	46	0.39	0.24	0.22	0.21	0.15	0.12		
Field adjustable drive current between 350mA, 525mA and 700mA on Non-IC rated luminaires	06	69	0.57	0.34	0.30	0.27	0.21	0.16		
Luminaire housing provided with factory applied foam gasket and provides for a watertight seal between luminaire housing and canopy	525mA									
deck	04	71	0.59	0.35	0.31	0.28	0.21	0.16		
Mounts directly to the canopy deck and is secured in place with a die cast aluminum trim frame	06	101	0.84	0.49	0.43	0.38	0.30	0.22		
RS mount includes integral junction box which allows ease of installation without need to open luminaire	700mA									
Suitable for use in single (RS Mount) or double (RD Mount) skin canopies with 16" (406mm) wide panels	04	94	0.79	0.46	0.40	0.36	0.28	0.21		
Designed for canopies of 19-22 gauge (maximum 0.040" [1mm] thickness)	06	135	1.14	0.65		0.50	0.40	0.29		
See 228 Series™ canopy luminaires for canopies using 12" (305mm) deck sections	* Electrical data	at 25°C (77°F). Actual	wattage ma	y differ by +/- 10	1% when operat	ing between	120-277V	r 347-480V		
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. Black, bronze, silver,	304 Serie	s™ Ambient Adjı	ısted Lu	men Mainte	nance ¹					
and white are available			Initial	25K hr	50K hr	75K hr		100K hr		
ELECTRICAL SYSTEM	Ambient	CCT	LMF	Reported ²	Reported ² I MF	Estima I MF		Estimated I MF		
• Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers				LI-III		LIVIE				
• Power Factor: > 0.9 at full load	5°C	30K/40K/50K/57K	1.04	1.01	0.99	0.98	0	1.96		
 Total Harmonic Distortion: < 20% at full load 	(41°F)	TRI	1.06	1.06	1.06	1.06		06		
Integral weathertight electrical box with terminal strips (12Ga-20Ga) for easy power hookup			1.00			1.00				

 Designed for canopies of 19-22 gauge [maximum 0.040" [1mm] thickness] 	06	135	1.14	0.65		0.50 0.				
 See 228 Series™ canopy luminaires for canopies using 12" (305mm) deck sections 	* Electrical dat	a at 25°C (77°F). Actual	wattage mi	ay differ by +/- 10	1% when operat	ng between 120-	277V or 347-480V			
 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. Black, bronze, silver, 	304 Serie	304 Series™ Ambient Adjusted Lumen Maintenance¹								
and white are available	Ambient	CCT	Initial	25K hr	50K hr Reported ²	75K hr Estimated	100K hr Estimated ³			
ELECTRICAL SYSTEM	Ambient	CCI	LMF	Reported ²	I MF	I MF	I MF			
Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers										
Power Factor: > 0.9 at full load	5°C	30K/40K/50K/57K	1.04	1.01	0.99	0.98	0.96			
 Total Harmonic Distortion: < 20% at full load 	(41°F)	TRI	4.04	1.06	1.06	1.06	1.06			
 Integral weathertight electrical box with terminal strips (12Ga-20Ga) for 		IKL	1.06	1.06	1.06	1.06	1.06			
easy power hookup		30K/40K/50K/57K	1.03	1.00	0.98	0.97	0.95			
Integral 10kV surge suppression protection standard	10°C (50°F)									
When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current		TRL	1.04	1.04	1.04	1.04	1.04			
10V Source Current: 0.15mA	15°C	30K/40K/50K/57K	1.02	0.99	0.97	0.96	0.94			
REGULATORY & VOLUNTARY QUALIFICATIONS	(59°F)	TRI	1.03	1.03	1.03	1.03	1.03			
cULus Listed		IKL	1.03	1.03	1.03	1.03	1.03			
Suitable for wet locations		30K/40K/50K/57K	1.01	0.98	0.96	0.95	0.93			
 Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions 	20°C (68°F)	TRL	1.01	1.01	1.01	1.01	1.01			
Enclosure meets IP66 requirements per IEC 60529										
ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI	25°C	30K/40K/50K/57K	1.00	0.97	0.95	0.94	0.92			
C62.41.2	(77°F)	TRL	1.00	1.00	1.00	1.00	1.00			
Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117	¹Lumen maint	enance values at 25°C (1	77°F) are ca	Iculated per IES	TM-21 based or	IES LM-80 repo	rt data for the LED			
DLC qualified with select SKUs. Please refer to <u>www.designlights.org</u> for most current information	the state of the s					plied to all lumen				
RoHS Compliant. Consult factory for additional details						ions that are				
Meets Buy American requirements within ARRA		ues are calculated and			it exceed the 6x	test duration of	he LED.			



Must seeke seek.

Not available with BML or 0 options.
Not available with BML or 0 options.
X1 option not available with the following lumen package/oblage seekes 0 nl N 1 x 0/L L L L/U H.

Not for use with symmetric optics with symmetric optics.

Red to RRPRIC configuration diagram on page 26 for optic directionality.

Not for use with symmetric optics.

CREE \$\Dightarrow\$ LIGHTING

- Reter to WSN-DPM spec sneet to SimplySNAP On-Site Controller SS450-002 - Verizon® LTE-enabled - Designed for indoor applications - Pefer to SS450-002 cape chart for

(Optional, for increased range, 8dB gain) KIT-ANT420SM

antenna, 20' cable and bracket antenna, 30' cable and bracket

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

TL7-HVG - Suitable for 120-480V (UL, UE and UH) voltages - Requires NEMA/ANSI C136.41 7-Pin Dimming

Not for use with BML or Q options
Provides On/Off switching, dimming, power

Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaire
 Refer to IL-74MS spec sheet for details
 SimplySNAP Central Base Station
 CBSSW-450-002
 Includes On-Site Controller [SS450-002] and
 S-button switch

inducions.

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

It is a synchron to the state of the state o

symmetric optics

CREE ♦ LIGHTING

CREE \$\DECE\text{LIGHTING}^*

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



CREE \$

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

CONSTRUCTION & MATERIALS

CREE LIGHTING NANOCOMFORT™ TECHNOLOGY

Adjustable arm mount adapters are rugged die cast aluminum

OSQ-ML-C-AA mounts to a horizontal or vertical 2" (51mm) IP, 2.375" (60mm) O.D. tenon and can be adjusted 180° in 2.5° increments

OSO-X-C-AA mounts to a horizontal or vertical 2" [51mm] IP, 2.375-2.50" [60-64mm] O.D. steel tenon and can be adjusted 180" in 50" increments. NOTE: Tenon length must be a minimum of 3.75" [75mm], and tenon must be steel
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" bott or [2] 1/2" or 3/6" bottom.

include 15" (381mm) 18/5 cord exiting the luminaire Designed for uplight and downlight applications. Uplight orientation not suitable for use with N or R options

When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current

ANSI C136.2 10kV/5kA (standard) and 20kV/10kA (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 radiated emissions Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117

ELECTRICAL SYSTEM
• Input Voltage: 120-277V, 277-480V or 347-480V, 50/60Hz, Class 1 drivers

Busined with 0-10V dimming capabilities. Controls by others
Refer to <u>Dimming spec sheet</u> for details
Maximum 10V Source Currents 1.8mA
Operating Temperature Range: -40°C - +40°C (-40°F - +104°F)

Total Harmonic Distortion: < 20% at full load Integral 10kV/5kA surge suppression protection protection optional

REGULATORY & VOLUNTARY QUALIFICATIONS

• cULus Listed (UL1598)

Lens meets IK07 requirements per IEC 60068-2

RoHS compliant. Consult factory for additional details

OSQ™ LED Area/Flood Luminaire featuring Patented NanoComfort™ Technology - Version C

QTY LABEL DESCRIPTION

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PROJECT NAME: **CREW CARWASH** MUNSTER, IN DRAWING NUMBER: RL-8445-S1-R10







Canada: creelighting-canada.com (800) 473-1234

CA RESIDENTS WARNING: Cancer and Reproductive Harm www.p65warnings.ca.gov

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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

 Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available 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 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

US: <u>creelighting.com</u> (800) 236-6800

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

 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 C62.41.2

. 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

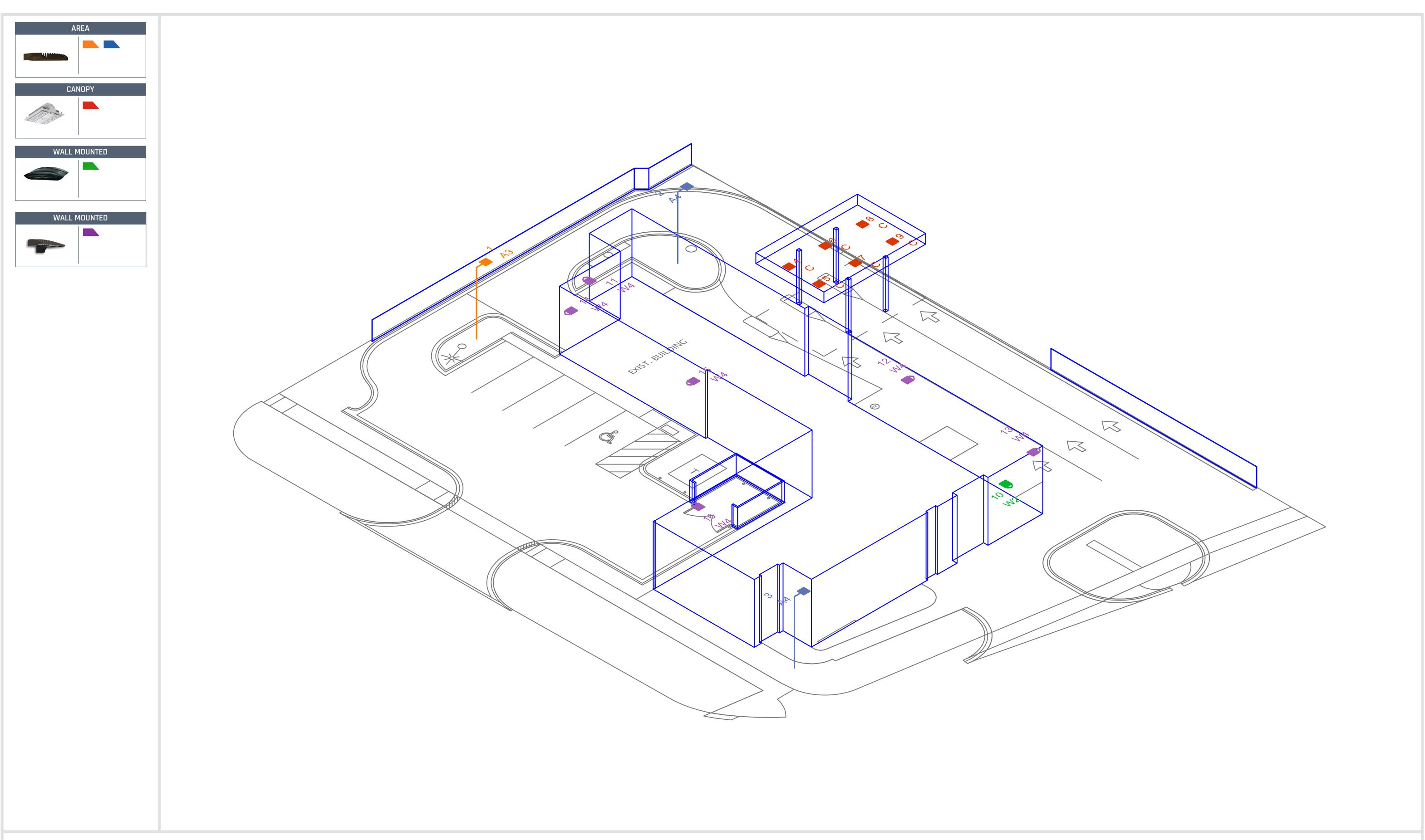
TRL 83 30K/40K/50K/57K 130

30K/40K/50K/57K 133

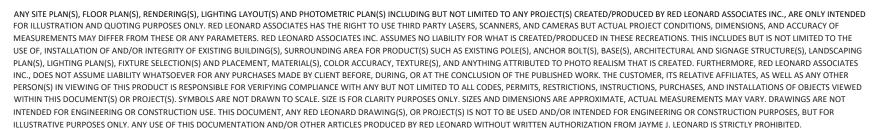
THE EDGE® Series Ambient Adjusted Lumen Maintenance1

LITHONIA LIGHTING COMMERCIAL OUTDOOR

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