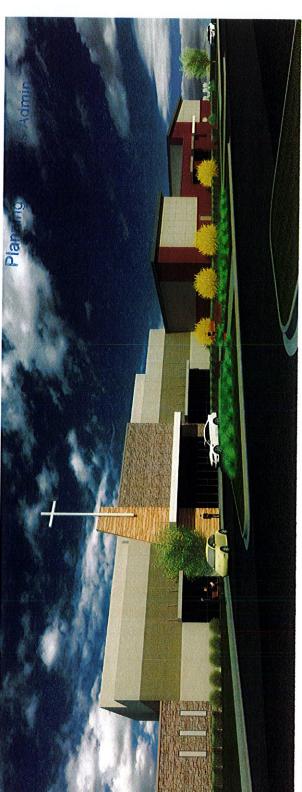
Mantel teter



WEST ELEVATION

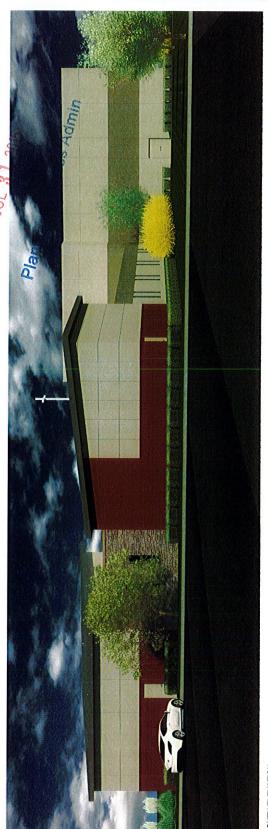


EAST ELEVATION

020

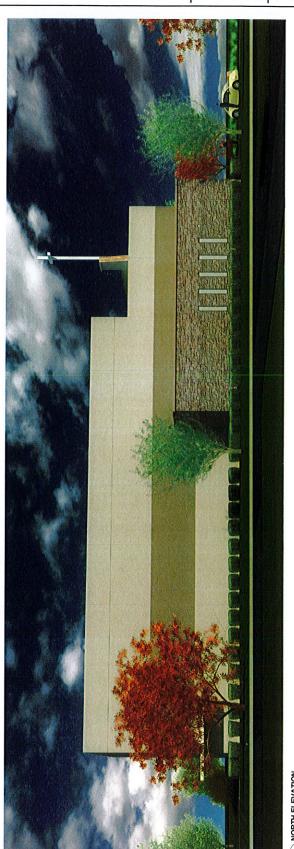






mantel teter





-2015-117-





SHEET No.

EXTERIOR RENDERINGS

(3)

-COM

20

(Barry

EAST ELEVATION

A New Worship Facility for:

The Summit
VIEW HIGH DRIVE & CHIPMAN ROAD
Lee's Summit, Missouri

antel teter



NORTH ELEVATION

SOUTH ELEVATION

A New Worship Facility for: **The Summit**VIEW HIGH DRIVE & CHIPMAN ROAD Lee's Summit, Missouri





## SUBMITTAL

LEE'S SUMMIT **UNITED METHODIST** CHURCH SITE LIGHTING

LIGHT FIXTURES

-2015-117-

09-01-15 RECEIVED

SEP - 2 2015

Planning & Codes Admin



#### **FIXTURE SCHEDULE**

#### THE SUMMIT

#### Lee's Summit United Methodist Church

#### September 1st, 2015

- A. 2X4, DIRECT/INDIRECT, 3 LAMP, LAY-IN FIXTURE
- AE. SAME AS "A" WITH EMERGENCY BALLAST
- B. 2X4, ACRYLIC LENS, 3 LAMP, 2 BALLAST, LAY-IN FIXTURE
- C. SAME AS "B" WITH SINGLE BALLAST
- D. 1X4, 2 LAMP, STRIP FIXTURE, WITH WIRE GUARD
- E. SAME AS "C" WITH FLANGE KIT
- F. 2X2, ACRYLIC LENS, 2 LAMP, LAY-IN FIXTURE, WITH FLANGE KIT
- G. RECESSED FLUORESCENT CAN LIGHT, 32 WATT CFL
- GE. SAME AS "G" WITH EMERGENCY BALLAST
- H. RECESSED FLUORESCENT CAN LIGHT, 42 WATT CFL
- HE. SAME AS "H" WITH EMERGENCY BALLAST
- RECESSED, DIMMABLE, LED CAN LIGHT
- J. PENDANT FIXTURE, DIMMABLE LED, 100 WATT, DMX CONTROL, SRS SPECIFIED
- K. INCANDESCENT, DIMMABLE, CYLINDER
- L. 4 LAMP, FLUORESCENT, INDUSTRIAL STYLE, 2 BALLAST FIXTURE
- M. FLUORESCENT LAMPED CYLINDER, (2) 42 WATT CFL
- ME. SAME AS "M" WITH EMERGENCY BALLAST
- N. DECORATIVE, DIMMABLE, PENDANT FIXTURE (TBD)
- O. NOT USED
- P. UNDER CANOPY MOUNTED DOWN LIGHT
- Q. EXTERIOR CROSS UP-LIGHT
- R. UNDER CABINET FLUORESCENT FIXTURE
- BOLLARD, LED
- T. DECORATIVE WALL MOUNTED UP-DOWN LIGHT
- U. EGRESS DOOR SECURITY LIGHT WITH EGRESS EMERGENCY LIGHT
- V. WALL MOUNTED UP-LIGHT
- W. SECURITY WALL PACK
- X. EXIT SIGN WITH BATTTERY BACK-UP
- Y. TWIN HEAD EMERGENCY LIGHT
- Y1. TWIN HEAD EMERGENCY LIGHT, HIGH CAPACITY
- Z. EXTERIOR EMERGENCY EGRESS LIGHT FIXTURE
- S5. SINGLE HEAD PARKING LOT POLE LIGHT (see ES1 for pole light heights)
- D5.TWIN HEAD PARKING LOT POLE LIGHT (see ES1 for pole light heights)



8" Lensed Square CFL Downlights LFFQSQ-H9-18EB,

LFFQSQ-H9-18EB

Two 18W Quad Tube 4-Pin Lamps Two 26W Quad Tube 4-Pin Lamps 120V, 208V, 240V, 277V, or 347V DATE. TYPE: P
FIRM NAME: ELDEGON INC.
PROJECT: LEE': SUMMIT UMC

## **LiteFrame**

Ceiling Cutout: 10<sup>3</sup>/<sub>8</sub>" sq. Maximum Ceiling Thickness: <sup>5</sup>/<sub>e</sub>" For conversion to millimeters, multiply inches by 25.4 Not to Scale

**APPLICATIONS:** 

The LFFGSQ offers an 8" square operture lensed, compact fluorescent downlight solution with your choice of trim and lens options. This luminaire is ideal for a wide variety of low to medium height ceiling applications including commercial, retail, and hospitality spaces where a lensed fixture is required.

HOUSING:

22-gauge cold rolled steel platform with white baked enamel finish. Prewired J-box with snap-on cover for easy below ceiling access. 347V available.

REFLECTOR:

Diecast aluminum trim with matte white finish. Prismatic glass lens, drop opal glass lens, or prismatic Lexan® lens. Optional with Alzak upper reflector.

BALLAST:

One (1) 18W or 26W compact fluorescent Class 'P' electronic ballast. HPF and EOL protection standard. Accessible from below ceiling. LAMP:

Two (2) 18W quad tube (G24q-2 base), or two (2) 26W quad tube (G24q-3 base) 4-pin compact fluorescent lamps. Lamps furnished by others or as option below.

SOCKET:

Two (2) injection molded sockets

INSTALLATION:

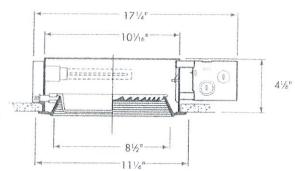
Supplied with slip strap (B7) bar hangers for use on joists up to 24" O.C.

LABELS:

UL listed or UL/CSA listed with CDN option for damp locations
Approved for through wiring
Non-type I.C. Wet location listed when used with lens and under a covered ceiling.

LAMP INCLUDED OPTION:

Specify lamp type Q4 (Quad 4-pin) and temperature as shown below.



## PLAT LENS NO Drap LENS

CATALOG NUMBER EXAMPLE: LFFQSQ-H9 18EBDM 9SRDOP LP18Q430K HOUSINGS HOUSING OPTIONS TRIMS TRIM OPTIONS **ACCESSORIES** LAMP ACCESSORIES TLG LFFQSQ-H9-18EB O CON M 9FLXPR ☐ FSDFI OLD 26Q439K 8" lensed square CFL Canadian electrical Prismatic Lexan lens Trim lens gasket Fuse kit for field -wattage= 18 or code compliant ballast 🔲 downlight, (2) 18W 95RFR (factory installed) installation type Q4 (Quad 4-pin) disconnect Quad tube, multi-volt Regressed black U TPS ☐ PKT261 temp= 27K, 30K, 35K, ☐ CDN 347V3 electronic ballast steps with fresnel Tamper resistant T-bar adaptor for B7 41K (Kelvin) LFFQSQ-H9-26EB Canadian electrical glass lens (factory installed) bar hangers Requires two lamps. 8" lensed square CFL code compliant ☐ 9SRTPR ☐ TRG ballast disconnect downlight, (2) 26W Regressed black Trim ring gasket □ DM Quad tube, multi-volt steps with tempered (factory installed) Electronic Analog electronic ballast prismatic glass lens Dimming Ballast to 3%, 9FPR 4-wire, 0-10V (120-Prismatic glass lens 277V) ☐ 9FDOP I EMR1,2 Drop opal glass lens Emergency battery pack 9FFR with remote test switch Fresnel glass lens and indicator light. Above ceiling access

☐ FSDFA

required.

Fuse kit installed at factory

Q RIFT

Radio interference filter (single circuit)

☐ ECDM

Lutron EcoSystem or 3-wire line voltage dimming ballast (120-277V). Dims to 5%. <sup>1</sup>RIF and EM options not offered in combination <sup>2</sup>CP not offered in combination with RIF1 or EM

<sup>3</sup>Dimming option not available for 347V



In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

Web: www.prescolite.com • Tech Support: {888} 777-4832

# PHOTOMETRIC DATA LiteFrame™ - 8" Lensed Square CFL Downlights LFFQSQ-H9-18EB, LFFQSQ-H9-26EB

BALLAST DATA		8W Quad		2	6W Quad	
	120V	277V	347V	120V	277V	347V
Total System Watts Input Current (Amps)	3 <mark>8W</mark> 0.32	38W 0.14	36W 0.11	57W 0.48	57W 0.21	58W 0.17
Input Frequency in Hz	50/60	50/60	50/60	50/60	50/60	50/60
Power Factor	>97%	>97%	>97%	>97%	>97%	>97%
Ballast Factor	>98%	>98%	1	>98%	>98%	1
Total Harmonic Distortion Total Harmonic Distortion	<10% -18°C (0°F)	<10% -18°C (0°F)	<10% -18°C (0°F)	<10% -18°C (0°F)	<10% -18°C (0°F)	<10% -18°C (0°F)

LAMP DATA		
Rated Watts	18W Quad	26W Quad
Rated Lumens	1250	1800
Efficacy (LPW)	69	69
Rated Life	10,000 hours	10,000 hours
CRI	82	82
Min. Starting Temp.	O° F	O° F

LUMINA	NCE DATA I	N CANDEL	A/SQ. METER
Angle in Vertical	Average 0°	Average 45°	Average 90°
45°	5674	6652	7433
55°	3675	4624	4189
65°	2628	2842	3045
75°	2540	2751	2818
85°	2340	2208	2215

RCR3

25

16

11

8

RCR7

17

11

8

5

**AVERAGE INITIAL FOOTCANDLES** 

Multiple Units (Square Array) Ceiling 80% Wall 50% Floor 20%

RCR1

32

20

14

10

8

26W Quads

SPACING

4.0

5.0

6.0

8.0

#### LFFQSQ-H9-26EB 9FPR Lamp: Two 26W Quads Spacing Criteria: 0° = 1.3 90° = 1.2

Efficiency: 26.1%

	CANDLEPOWER DISTRIBUTION
	90
200	75
-	60
400	***
600	45
	+
0	15 30
	8EAM
	90

EAM	-
5-135	
)	
Tos	+No 823788
les	t No. B2378B

#### CANDLEPOWER SUMMARY

Angle	0.	45"	90.
0	431	431	431
5	436	436	433
15	423	436	444
25	380	424	435
35	303	357	371
45	186	218	245
55	98	123	112
65	52	56	60
75	31	33	34
85	9	9	9

CO	EFF	ICI	EN	TS	OF	UT	ILIZ	TAS	10	N		Zor	al I	Cav	ity i	Me	hoo
					% 1	Hoc	live f	loor	Covi	y Re	lecto	nce	- Harpert	-	-	-	
CAND.		80	%		ı	70	1%	- 8		0%		. 3	30%			10%	
02			-	20	% EH	ecliv	e Flo	or Co	vity I	Refle	done	e			-	-	-
Room				**********			% W	Vall R	effect	ance		******		and the same of th	-	*****	
ur.	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
3	.29	.28	.27	.26	.28	.28	.27	.26	.26	.26	25	25	25	241	25	24	24
2	.27	.25	.24	23	.27	.25	24	23	.24	23	.22	23	22	.22	.23	22	21
3	.25	.23	.21	.20	25	23	21	20	.22	21	20	21	20		21		19
4	.24	.21	.19	.18	.23	21	.19	.18	.20	.19	.17	20	.18	17	19	18	17
5	.22	.19	.17	.16	.21	.19	.17	.16	.18	.17	16			.15	17	-	15
6	.20	.17	.16	.14	.20	.17	15	.14	.17	15	14				.16		14
7	.19	16	.14	13	.19	.16	.14	.12	.15	.14	.12	.15	13	12	.15	13	12

LFFQSQ-H9-26EB 9FPR

#### NOTES

Refer to www.prescolite.com for additional photometric tests (IES Files).



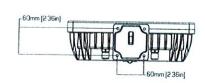


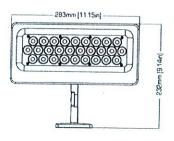
# LUMINA

### **ILUMIPANEL 28 IP OPTIC 30 RGB**

Item Number: 01620438









#### LIGHT SOURCE & OPTICAL SPECIFICATIONS

Light Source: 28 LEDs [10 red, 9 green, 9 blue] 1 W (350 mA)

Light Source Lifespan: 50,000 hours based on LED manufacturer's specifications

Installed Optics: 30° Beam Angle: 27°

Field Angle: 53° Lumens: 719

Base Illuminance: 98 lux @ 5 m

Efficacy: 21.1 lm/W

Color Temperature Presets: N/A

Minimum Distance to Illuminated Surface: 4 in (92 mm)

### CONSTRUCTION& PHYSICAL SPECIFICATIONS

Length: 11.1 in [283 mm] Width: 3.4 in [87 mm] Height: 9.3 in (235 mm) Weight: 6.5 lb (3 kg)

Color: Off white Ingress Protection Rating: IP67

Housing Material: Cast aluminum Lens Cover: Impact resistant glass Installation Orientation: Any

#### CONTROL SPECIFICATIONS

Control Protocol: USITT DMX-512a Control Channels: 1, 3, 4 or 7

Operating Modes: Selectable personalities

Solid (1-channel): dimmer Arc 1 (3-channel): red, green, blue

Arc 1+D [4-channel]: dimmer, red, green, blue

Arc Full (7-channel): dimmer, red, green, blue, color macros, strobe,

dimming speed

Stand Alone Control: N/A Remote Addresser: Ilumicode

Data Connection: 9.8 ft (3 m) Waterproof cable

Client: Project: LEE'S SUMMIT UMC Date:



#### **ELECTRICAL SYSTEM SPECIFICATIONS**

Input Voltage: 100 to 240 VAC, 50/60 Hz (auto-ranging)

Power and Current: 37.8 W, 0.5 A @ 120 V 36 W, 0.4 A @ 230 V

Power Supply: Electronic internal

Dimmer: Electronic

Power Linking: N/A Power Connection: 9.8 ft (3 m) Waterproof cable

#### THERMAL SPECIFICATIONS

Cooling: Convection

Startup Temperature Range: -4 °F to 113 °F (-20 to 45) °C Operating Temperature Range: 40 °F to 113 °F [-40 to 45] °C Storage Temperature Range: -40 °F to 167 °F (-40 to 75) °C

#### **REGULATORY & VOLUNTARY QUALIFICATION**

Certification Listings: MET, CE

Environment: Wet location, IP67

Warranty. 36 month manufacturer's limited warranty (for covered regions only)

Product Web Page

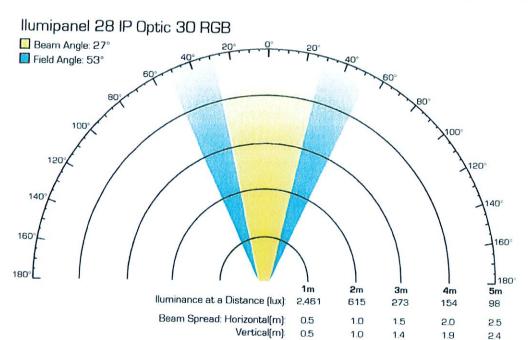


# **ILUMINARC®**

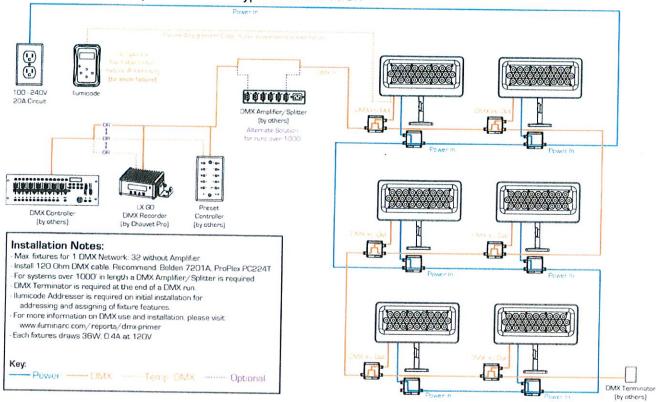
### **ILUMIPANEL 28 IP OPTIC 30 RGB**

Item Number: 01620438

Client:				Y
Project:_	LEE'S	SUMMIT	umc	
Date:		Type:	Q	



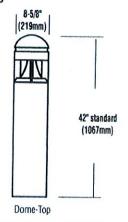
llumipanel 28 IP Optic 30 RGB Typical Installation



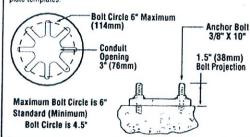
### LED BOLLARD LIGHT (XBVRD)



#### DIMENSIONS



#### **BASE DETAIL** Note: Base plate dimensions may change without notice. Do not use for setting anchor bolts. Consult factory for base plate templates



SHIPPING WEIGHTS - LED Bollard						
Catalog #	Est. Weight (kg/lbs.)	Length (mm/in.)	Width (mm/in.)	Height (mm/in.)		
XBVRF	25/56	1318/51.875	311/12.25	251/9.875		
XBVRD	25/56	1318/51.875	311/12.25	251/9.875		
Anchor Bolts	1/set	•	-			
(3/8" x 10")	1/2					



#### U.S. and international patents pending

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - An array of 24 select high-brightness LEDs in Cool White (5000K), Warm White (3500K) or Neutral White (4000K) color temperature, 69 CRI (nominal)

REFLECTOR/DISTRIBUTION - Indirect. Photometric data is tested in accordance to IESNA **Procedures** 

HOUSING - Crown: Virtually tamper-proof concealed stainless steel fasteners in the cast aluminum crown assembly.

Lower Housing: One-piece, .322 inch seamless, extruded aluminum. Various heights are available in 6" increments starting at a minimum of 30" (maximum height is 60"). Lower housing attaches to cast aluminum base plate with four stainless steel roll pins.

OPTIONAL ROUGHNECK REINFORCEMENT - .375" thick zinc plated, steel base plate with welded U shaped reinforcement. 3/8" diameter 302 stainless steel roll pins with 10,000 lb. shear load.

LENS/GASKET - One-piece, clear acrylic lens enclosure fully gasketed at top and bottom edge.

ANCHOR BOLTS - Requires four heavy-duty 3/8" x 10" galvanized steel anchor bolts.

ELECTRICAL - Universal voltage power supply (120-277 VAC, 50/60 Hz). 347-480V also available - 400mA is standard. Surge protector meets IEEE C62.41.2-2002, Scenario 1 Location Category C.

DRIVER - State-of-the-art driver technology designed specifically LSI LED light sources provides unsurpassed system efficiency. Driver complies with IEC and FCC standards.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F).

FINISH - Each fixture is finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling, and is guaranteed for five full years. Standard colors include bronze, black, platinum plus, buff, white, graphite, satin verde green and metallic silver.

DECAL STRIPING - Color-coordinated decal is available in 9 standard decal colors or by custom order from a selection of hundreds. Decal is guaranteed for five years against peeling, cracking, or fading

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Application layouts are available upon request. Contact LSI Applications Group at lighting.apps@lsi-industries.com.

LISTING - Listed to U.S. and Canadian safety standards. Suitable for wet locations. DLC - not all possible distributions are DLC approved. Please refer to LSI or DLC web site for specific listings.

Also available in traditional light sources

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.

LIGHT OUTPU	T - XBVR	manage Laurence	-
Description	# of LEDS	Lumens	tput Watts
Cool White XBVR ID	24	1338	38
Neutral White XBVR ID	24	1224	38
Warm White XBVR ID	24	856	38







ARRA **Funding Compliant** 





Project Name LEE'S SUMMIT UM'C

07/29/14

@ 2014

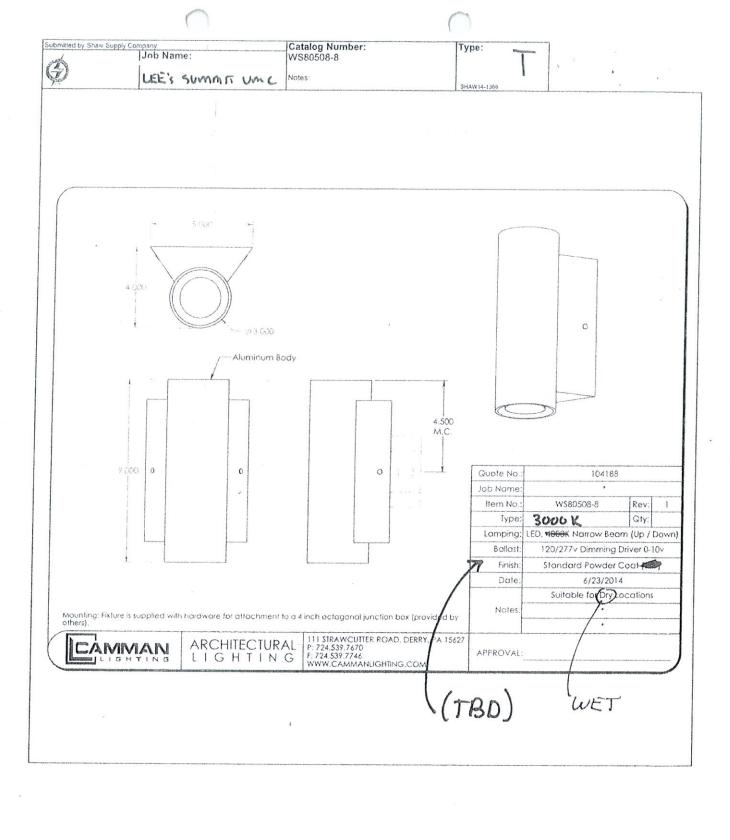
## LED BOLLARD LIGHT (XBVRD) PRODUCT ORDERING INFORMATION



XBVRF ID LED 24 TYPICAL ORDER EXAMPLE: 400 CW UE BRZ 45

	of LEDS Drive Current	Color Temp	Line Voltage	Finish	Options
XBVRF Flat-Top ABVRD Round-Top	24) (400)	CW - Cool White NW - Neutral White WW - Warm White	UE) Universal Electronic (120-277V 50/60Hz) 347 - 347 voh 480 - 480 voh	BLK - Black PLP - Platinum Plus BUF - Buff WHT - White GPT - Graphite	H - XX (Specify Height)  PC1120 - Button-type Photocell PC1208, 240,277 - Button-type Photocell PC1347 - Button-type Photocell GFR - GFI Duplex Receptacle LAB - Less Anchor Bolts RN - Roughneck Heavy Duty Mounting Plate
1 - Taller or shorter heights available in 6' increments. N	finimum height is 30°. Maxin	num height is 60°.		FINISH	45 - Light Gold 20 - Charcoal Metallic 55 - Black 94 - Blue Black
ACCESSORY ORDERING INFORMATION	(Accessories are field	installed)	- 1	BD	59 - Dark Green
Description ABKIT Anchor Bolt Krt (BVR) 3/8" x 10" - Galvanized HSS - Round House Side Shield		285560 122510			51 - Dark Red 21 - Tomato Red 50 - White 700 - Aztec Silver Metallic

Catalog #\_



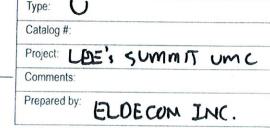
## lighting DECO digital™

**D444-LED** 

POWERED By Medium Trapezoidal Cutoff Wallpack

WNICHIA

Transforming tomorrow's lighting....today!



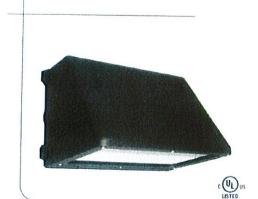
Job Information











#### **Dimensions**

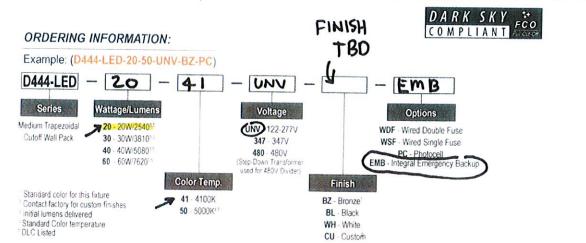


#### Description

The D444-LED medium trapezoidal cutoff wall pack offers a sleek design and cutoff performance with a wide range of uses. It delivers the lighting needed for the exteriors of retail buildings, businesses, walkways, underpasses or door entrances

#### Features

- Heavy duty two piece, die-cast aluminum housing aluminum reflector
- Silicone gasketing provides protection against moisture
- Mounts directly to 3.5" octagon, or 4" square outlet box
- .5" NPS tapped holes provided in three locations for surface conduit entry for optional photocell control
- Dark bronze powder coated finish for impact, corrosion and UV resistance
- Integral cast-in aluminum hinges
- Clear tempered glass lens is thermal and shock resistant
- UL 1598 listed for wet locations
- Can be used as an uplight for wall washing applications
- Dark Sky friendly
- Standard color is bronze; also available in black and white. Contact factory for custom finishes.
- CRI: 80+
- 10 Year Limited Warranty

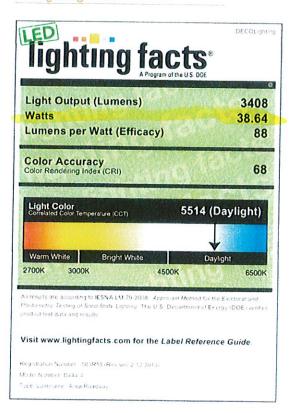


Medium Trapezoidal Cutoff Wallpack

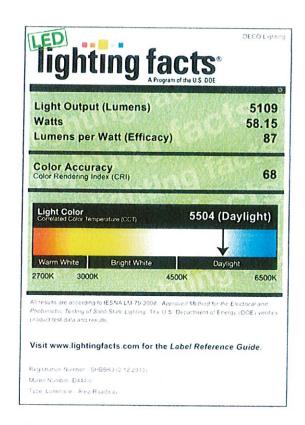
Transforming tomorrow's lighting....today!

Job Information
Type: U
Catalog #:
Project: LEE'S SUMMIT UM C
Comments:
Prepared by: ELDE CON INC.

Lighting Facts



40W LED



60W LED

Submitted by Shaw Supply Company



Job Name:

LEE'S SUMMIT UML

Catalog Number:

33202.023

Notes: \*\*PART NUMBER TO BE VERIFIED\*\*

Type:

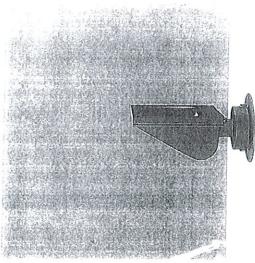


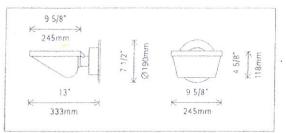
SHAW14-1366

### **ERCO**

## Lightscoop Ceiling washlights

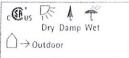
with mounting plate and LED















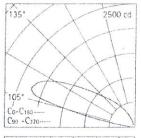
33202.023 Graphit m LED 24W 2280Im 3000K warm white Spherolit lens, deep beam

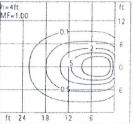
#### Product description

Housing: corrosion-resistant, cast aluminum, No-rinse surface treatment. Double powder-coated. Optimized surface for reduced accumulation of dirt. Luminaire rotatable throught 240°. Mounting plate: corrosion-resistant aluminum.

Electronic control gear 120V/277V, 60Hz. 2 cable entries. Through-wiring possible. 3-pole terminal block. LED module: high-power LEDs on metal-core PCB. SDCM<2. CRI>90. L80/810 50000h. Collimating lens made of optical polymer. Screw-fastened cover frame with safety glass: corrosion-resistant cast alu-minum, double powder-coated. Suitable for wet location (IP65): dustproof and water jet-proof. Weight 8.38lbs / 3.80kg Maximum wind load area 0.75ft2

FIXTURE COLUR





ERCO Lighting Inc. 160 Raritan Center Parkway Suite 10 Edison, NJ 08837 USA Tel.: +1 732 225 8856 fax: +1 732 225 8857 info.us@erco.com

Technical region: 120V/277V, 60Hz We reserve the right to make technical and design changes. Edition: 04.03.2014 Current version under www.erco.com/33202.023



WNICHIA

LED lighting

**D420-LED** 

Large Trapezoidal **Cutoff Wallpack** 

Transforming tomorrow's lighting....today!

Job Information

Type: W

Catalog #:

Project: LEES SUMMIT UMC

Comments

Prepared by:

ELDECON INC.

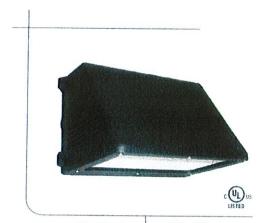


POWERED BY:









#### Dimensions



#### Description

The D420-LED large full cutoff wall pack offers a sleek design and cutoff performance with a wide range of uses. It delivers the lighting needed for the exteriors of retail buildings, businesses, walkways, underpasses or entrance doors.

#### Features

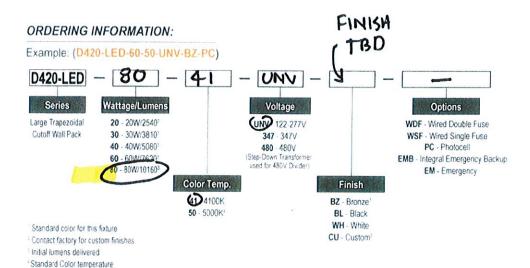
- Heavy duty two piece, die cast aluminum housing
- · aluminum reflector
- Silicone gasketing provides protection against moisture
- Mounts directly to 3.5" octagon, or 4" square outlet box
- .5" NPS tapped holes provided in three locations for surface conduit entry for optional photo control
- Dark bronze powder coated finish for impact, corrosion and UV resistance
- Integral cast-in aluminum hinges
- · Clear tempered glass lens is thermal and shock resistant
- UL 1598 listed for wet locations
- · Can be used as an uplight for wall washing applications
- · Dark Sky friendly
- · Approx. Weight: 16 lbs
- Standard color is bronze; also available in black and white. Contact factory for custom finishes
- CRI: 80+
- 10 Year Limited Warranty



Large Trapezoidal

**Cutoff Wallpack** Transforming tomorrow's lighting....today!

Job Information
Type: W
Catalog #:
Project: LEE'S SUMMIT UMC
Comments:
Prepared by: ELDE CONINC .





## Indoor/Outdoor Emergency Lighting Unit

## Comments PG - (TBD) - HTR Type 7



White



Dark Bronze



Platinum Silver



#### **FEATURES**

#### Application

The PG is an indoor/outdoor, die-cast architectural emergency unit. It is a wet location listed, emergency luminaire with high-output LED technology that provides path of egress illumination for mounting over entrance/exit ways and perimeter walkways. Spectron® self-testing/self-diagnostic electronics are included standard. A battery heater for cold temperature operation is available as an option.

#### Construction

Housing and mounting plate are constructed of 0.125" die-cast aluminum and 0.125" closed-cell, medium density, neoprene gasket. The acrylic lens allows 92% light transmission. The reflector is electropolished aluminum with 95% reflectance. Housing finish is powder coated electro-deposition paint available in four colors: dark bronze, white, platinum silver and black.

#### Installation

Universal housing knockouts for mounting to standard 31/2" and 4" octagon and 4" square electrical boxes. A 1/2" – 1/4 NPT threaded conduit opening is provided at the top of the housing and sealed with a closure plug. The back plate mounts to the wall surface using installer supplied hardware. The housing "snaps" to the back plate by a "pin and socket" arrangement, and is secured with two Fillister head screws. AC Lockout feature prevents battery discharge prior to initial unit power-up saving installation time.

#### Lamps

Four high-output, long life LED lamps arranged in redundant pairs.

#### Compliances

UL 924 Listed (emergency models only) UL Wet Location Listed NFPA 101 Life Safety Code NFPA 70 National Electrical Code OSHA U.S. Patent No. D627,916.

#### Warranty

Series

Three-years full for unit. electronics and battery.

Finish

PG W - HTR

Reference "Remote Heads and Fixtures" specification sheet for information on matching PG remote

**Options** 

W White
Z Dark Bronze
P Platinum Silver
B Black
HTR Battery Heater
(Add Suffix to Model)

**PGR Remote LED** 





## Indoor/Outdoor Emergency Lighting Unit PG-(TBD) - J-)TV2

#### **SPECIFICATIONS**

#### Electronics

Upon failure of the normal utility power, a solid-state transfer switch automatically activates the emergency lamp. Upon resumption of the normal utility power, the battery is disconnected from the load and recharged through a solid-state charging unit. A low voltage battery disconnect feature protects the battery from severe damage during prolonged power failures. Spectron® self-testing/self-diagnostic circuitry provides automatic system testing on a monthly and semi-annual basis. Manual testing is available at any time using the push-to-test button: push once for a 60-second system test; push twice for a 90-minute system test.

Number of Lamps: Four high output LEDs

Lamp Configuration: Two sets of 2 LEDs provide illumination. In the unlikely event that any single LED should fail the remaining LEDs willcontinue to function.

Lamp Type: Solid state high output LEDs

Lamp Color: Cool White, 6350K Total Lamp Output: 405 Lumens

Input: 120/277VAC, 60 Hz

Battery Charger: Temperature compensating, constant current

Transfer: Solid state

Functional Circuitry: AC lockout, transformer isolation, transient surge protection, low voltage battery disconnect, brownout

detection, time delay retransfer

Battery Recharge Cycle: per UL time standards

Test Means: Integral test switch

Battery: Sealed, maintenance-free Nickel-Cadmium

Operating Temperature Range for Models without Heater:

0°C to 50°C (32°F to 122°F)

Operating Temperature Range for Models with Heater:

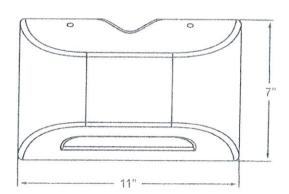
-30°C to 50°C (-22°F to 122°F)

#### **Power Consumption**

Models Wi	thout Heater	Models With Heater		
120VAC	2.78 watts	120VAC	15.2 watts	
277VAC	2.88 watts	277VAC	15.7 watts	

Power factor, average: 0.8 (lagging)

#### DIMENSIONS

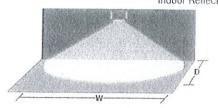




#### **ILLUMINATION PATTERN**

#### SINGLE UNIT COVERAGE

Mounting Height: 9'
Outdoor Reflectance: 0/30/10
Indoor Reflectance: 80/50/20



	Indoor	Outdoor
1 FC Average (W x D)	33' X 10'	27' X 10'
1 FC Minimum (W x D)	10' X 10'	9' X 10'

#### MULTIPLE UNIT SPACING

Mounting Height: 9' Illuminated Path Depth; 6' Outdoor Reflectance: 30/10 Indoor Reflectance: 80/50/20



	Indoor	Outdoor
1 FC Average	44'	33'
1 FC Minimum	16'	15'

### **OSQ Series**

#### **Product Description**

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. 'S' Input power designator is a suitable upgrade for HID applications up to 750 Watts

Applications: Parking lots, walkways, campuses, auto dealerships, office complexes, and internal roadways.

#### Performance Summary

Utilizes BetaLED® Technology

NanoOptic® Precision Delivery Grid™ optic

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI (4000K & 5700K); 80 CRI (3000K)

CCT: 3000K (+/- 300K), 4000K (+/- 300K), 5700K (+/- 500K)

Limited Warranty\*: 10 years on luminaire/10 years on Colorfast DeltaGuard\* finish

#### Accessories



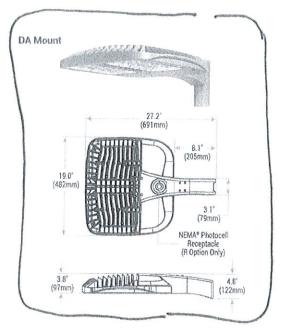
SEE DWG ESI FOR OVERALL MUNTING HEIGHTS

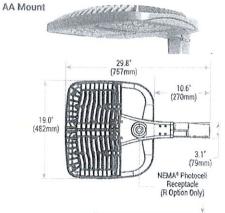
Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately Example: Mount: OSQ-AA SV + Luminaire: OSQ A NM 2ME S 40K-UL SV

Mount (Luminaire must be ordere	a ceparatery,			
OSQ-				
DSQ-AA Adjustable Arm DSQ-DA Direct Arm	Color Options:	SV Silver BK Black	BZ Bronze PB Platinum Bronze	WH White

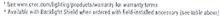
## TYPE S5 &







020	A	NM		s						
Product	Version	Mounting	Optic	Input Power Designator	сст	-	Voltage	Color Options	Options	
osa)	(A)	NM No Mount	2ME* 15 Flood 3ME* 25D Type II Medium 25 Flood 4ME* 40D 100 IV Medium 40 Flood 5ME 60D 17 Flood 5ME 60D 18 Flood 5ME 60D 19 Flood 5ME 60D 19 Flood 5ME 60D	223W)	30K 3000K 40K 4000K 57K 57 00K	US * Censda	UL Universal 120-277V UH Universal 347-480V	SV Silver BR Black BZ Bronze PB Platinum Bronze WH White	DIM 0-10V Dimming Control by others Refet to Dimming spec sheet for details Cen't exceed wattage of specified input power designator Fuse When code dictates fusing, use time delay fuse MLL Multi-Level Refer to ML spec sheet for details High 100%, Low: 30% Intended for downlight applications at 0' tilt	O9 Field Adjustable Output  Refer to Field Adjustable Output spec sheet for detail  R MEMA* Photocell Receptacle Intended for downlight Applications with maximum 45' tilt Photocell by others  Bit. Rotate Left LED and optic are rotated to the left RR Rotate Right LED and optic are rotated to the right









Rev. Date: V3 08/22/2014



#### OSQ Series - Large

#### **Product Specifications**

#### CONSTRUCTION & MATERIALS

- · Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adapter is rugged die cast aluminum and mounts to 3-6" (76-152mm) square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adapter 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
- 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, white, and platinum bronze are available
- · Weight: 28.5 lbs. (13kg)

#### ELECTRICAL SYSTEM

- 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 10kV surge suppression protection standard
- · To address inrush current, slow blow fuse or type C/D breaker should be used

#### REGULATORY & VOLUNTARY QUALIFICATIONS

- · cULus Listed
- · Suitable for wet locations
- · Enclosure rated IP66 per IEC 60529 when ordered without R option
- · Consult factory for CE Certified products
- · Pending certification to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression 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
- · Meets Buy American requirements within ARRA
- DLC qualified when ordered with 30K (5ME, 5SH optics), 40K (2ME, 3ME, 4ME, 5ME, 5SH optics), or 57K (2ME, 3ME, 4ME, 5ME, 5SH optics). Please refer to http://www.designlights.org/QPL for most current information

		Total Cu	rrent				
Input Power Designator	System Watts 120-480V	120V	208V	240V	277V	347V	480V

песопки	ended Cree® Outdoo	r Lumma	re Lumen Main	tenance Factors	(LMF)	
Ambient	Input Power Designator	Initial LMF	25K hr Projected <sup>9</sup> LMF	50K hr Projected <sup>2</sup> LMF	75K hr Calculated <sup>2</sup> LMF	100K hr Calculated LMF
5°C (41°F)	s	1.04	0.99	B.94	0.88	0.84
10°C (50°F)	S	1.03	0.98	093	0.88	0.83
15°C (59°F)	s	1.02	0.97	0.92	0.87	0.83
20°C (68°F)	S	1.01	0.96	0.91	0.86	0.82
25°C (77°F)	s	1.00	0.95	0.90	0.85	0.81

\*\*Lumen maintence values at 25°C (77°F) are calculated per TM-21 based on LM-90 data and in-airu huminaire testing.

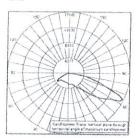
\*In accordance with ESNA TM-21-11. Projected Values represent interpolated value based on time durations that are within six times (6x) the ESNA LM-80-00 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip).

\*In accordance with ESNA TM-21-1, Calculated Values represent time durations that exceed six times (6x) the IESNA LM-80-09 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).

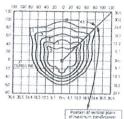
#### OSQ Series - Large

#### Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. To obtain an IES file specific to your project consult: http://www.cree.com/lighting.



RESTL Test Report #: PL03402-001 OSO A \*\* 4ME S 40K-UI Initial Delivered Lumens: 20,830



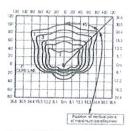
OSD A \*\* 4ME S 40K-UI Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 21,253



RESTL Test Report #: PL03642-002 OSQ A \*\* 4ME J 40K-UL w/OSQ-BLSMF Initial Delivered Lumens: 13,647



Initial FC at grade



OSQ A \*\* 4ME S 40K-UL w/OSQ-BLSMF Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 18,154 Initial FC at grade

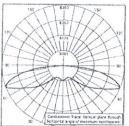
3	3000K	3000K		4000K		
Input Power Designator	Initial Delivered Lumens'	BUG Ratings" Per TM- 15-11	Initial Delivered Lumens'	BUG Ratings" Per TM- 15-11	Initial Delivered Lumens'	BUG Ratings" Per TM- 15-11
S	17,811	B3-U0-G3	21,253	B3-U0-G3	22,705	B3-U0-G3

<sup>\*</sup> Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens.
\*\* For more information on the IES BUG (Backleght-Uplight-Glare) Rating visit:
www.lesna.org/PDF/Ernatas/TM-15-11BugRatingsAddendum.pdf. Valid with no tih

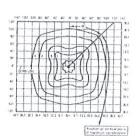
	3000K		4000K		5700K	
Input Power Designator	Initial Delivered Lumens	BUG Ratings" Per TM- 15-11	Initial Delivered Lumens'	BUG Ratings** Per TM- 15-11	Initial Delivered Lumens*	BUG Ratings" Per TM- 15-11
S	15,213	B2-U0-G3	18,154	B2-U0-G3	19,394	82-U0-G3

<sup>\*</sup> Initial delivered Jumens at 25°C (777). Actual production yield may vary between 4 and +10% of initial delivered lumens \*\* For more information on the BES BUG (Backlight-Uplight-Glare) Rating visit; mww.icsna.org/PDF/Erwinas/TM-15-11Bug/RatingsAddendum.pdf, Valid with no til:

#### 5ME



RESTL Test Report #: PL03456-001 OSQ A \*\* 5ME S 40K-UL Initial Delivered Lumens: 20,709



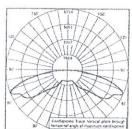
OSQ A \*\* 5ME S 40K-UL Mounting Height: 25' (7.6m) A.F.G Initial Delivered Lumens: 20,536 Initial FC at grade

#### Type V Medium Distribution

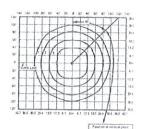
	3000K		4000K		5700K	
Input Power Designator	Initial Delivered Lumens'	BUG Ratings" Per TM- 15-11	Initial Delivered Lumens'	BUG Ratings" Per TM- 15-11	Initial Delivered Lumens'	BUG Ratings" Per TM- 15-11
S	17,345	B4-U0-G5	20,536	B5-U0-G5	20,841	B5-U0-G5

<sup>\*</sup> Initial delivered lumens at 25°C (77°F). Actual production yield may vary between 4 and +10°L of initial delivered lumens
\*\* For more information on the ES BUG (Backlight-Uplight-Glare) Rating visit:
www.resna.org/PDF/Erratas/TM-15-11Bug RatingsAddendurn.pdf. Valid with no bit.

#### 5SH



RESTL Test Report #: PL03501-001 OSQ A \*\* 5SH S 40K-UL Initial Delivered Lumens: 21,066



OSQ A \*\* 5SH S 40K-UL Mounting Height 25' (7.6m) A.F.G. Initial Delivered Lumens: 20,982 Initial FC at grade

	3000К		4000K		5700K	
Input Power Designator	Initial Delivered Lumens'	BUG Ratings" Per TM- 15-11	Initial Delivered Lumens'	BUG Ratings" Per TM- 15-11	Initial Delivered Lumens*	BUG Ratings" Per TM- 15-11
S	17,722	B4-U0-G4	20,982	B5-U0-G4	21,294	B5-U0-G4

<sup>\*</sup> loitial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens.

\*\* For more information on the IES 800 (Becklight-Uplight-Olare) Rating visit
www.iesna.org/PDF/Erratas/TM-15-118ug/RatingsAddendum.pdf. Valid with no tih

#### OSQ Series - Large

#### Luminaire EPA

Single	2@180	2 @ 90"	3 @ 90'	3@120	3 @ 180	4@180'	4@90
-80	100 → 400	T-80	610	00		***************************************	100 Test
0.80	1.61	1.26	2.06	1.68	3.33	4.66	2.52

Adjustable Arm Moun	1 - OSQ-AA Weight: 28.51	lbs. (13kg)					
Single	2 @ 180	2 @ 90'	3 @ 90.	3 @ 120'	3 @ 180"	4@180	4@90
Tenon Configuration (	0'-80' Tilt); If used with Cre	e tenons, please add tenon EF	A with Luminaire EPA				
PB-1A*; PT-1; PW-1A3**	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-2A*, PD-2A4(90); PT-2(90)	PB-3A*, PD-3A4(90), PT-3(90)	P8-3A*, PT-3(120)	PB-3A*, PB-3R2.37S	PB-4A*(18U)	PB-4A*(90), PB-4R2.375; PD-4A4(90); PT-4(90
0° Tih							
0.80	1.61	1,26	2.06	1.68	3.33	4.66	2.52
10' Tilt							
18.0	1.61	1.62	2.42	2.32	4.40	6.08	3.24
20' Tilt						1	
1.24	1,61	2.04	2.84	3.13	5.68	7.80	4.08
30' Tik							1
1.64	1.64	2.44	3.24	3,97	6.88	9.40	4.88
45' Tilt						***************************************	J
2.20	2.20	3.00	3.80	5.07	8.55	11.64	6.00
60' Tilt							
2,63	2.63	3.43	4.23	5.73	9.84	13.36	6.85
70° Tilt	4						
2.82	2,82	3.62	4,42	5.73	10.41	14.12	7.24
80° Tilt	,						
2.93	2.93	3.73	4,53	5.73	10.74	14.56	7.46
enon Configuration (9)	0' Tilt); If used with Cree ten	ons, please add tenon EPA wit	th Luminaire EPA				
B-1A*; PT-1; PW-1A3**	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-2A*	PB-3A*	PB-3A*; PT-3(120)	PB-3A*; PB-3R2.375	P6-4A*(180)	P8-4A*(90), P8-4R2.375
o Tilt						Alam and an area and a service	
.95	2.95	4.84	6.52	5.73	10.81	14.64	11.19

<sup>\*</sup> Specify pole size: 2 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation \*\* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

#### OSQ Series - Medium

#### Tenon EPA

Tenon	EPA		
P8-1A*	None		
P8-2A*	0.82		
PB-3A*	1.52		
PB-4A*(180)	2.22		
PB-4A*(90)	1.11	*	
PB-2R2.375	0.92		
PB-3R2.375	1.62		
PB-4R2.375	2.32		
PD Series Tenons	0.09		
PT Series Tenons	0.10		
PW-1A3**	0.47		
PW-2A3**	0.94		
WM-2	0.08		
WM-4	0.25		

Square Internal Mount Vertice - Mounts to 3-6' (76-152mm)	cal Tenons (Steel) square aluminum or steel poles	Round Internal Mount Vertical Tenons (Steel) - Mounts to 2.375" (60mm) 0.0. round aluminum or steel poles or tenons		
PB-1A* - Single PB-4A*(90)				
	PB-4A*(180) - 180' Quad	P8-2R2.375 - Twin P8-3R2.375 - Triple	PB-4R2.375 - Quad	
Square Internal Mount Horizontal Tenons (Aluminum)  - Mounts to 4" (102mm) square eluminum or steel poles		Round External Mount Horizontal Tenons (Aluminum)  - Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons  - Mounts to square pole with PB-1A* tenon		
PD-2A4(90) - 90' Twin PD-2A4(180) - 180' Twin	PD-3A4(90) - 90' Triple PD-4A4(90) - 90' Quad	PT-1 - Single PT-2(90) - 90' Twin	PT-3(90) - 90" Triple PT-4(90) - 90" Quad	
Wall Mount Brackets		PT-2(180) - 180° Twin		
Mounts to wall, roof or side	of wood pole	Mid-Pole Bracket		
WM-2 - Horizontal	WM-4 - L-Shape	- Mounts to square pole		
	-	PW-1A3++ - Single	PW-2A3** Double	



<sup>\*</sup> Specify pole size: 3 (3°), 4 (4°), 5 (5°), or 6 (6°) for single, double or triple luminaire orientation or 4 (4°), 5 (5°), or 6 (6°) for quad luminaire orientation.

\*\* These EPA values must be multiplied by the following ratio: Furture Mounting Height/Total Pole Height. Specify pole size: 3 (3°), 4 (4°), 5 (5°), or 6 (5°).

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