

UNITED COMMERCIAL INC

SUBMITTAL

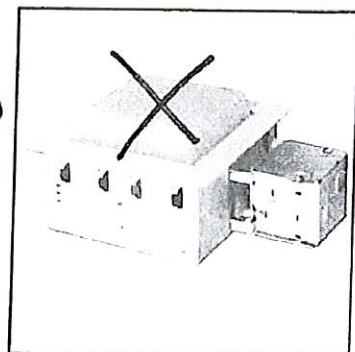
**THE SUMMIT
LEE'S SUMMIT
UNITED METHODIST
CHURCH
SITE LIGHTING**

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APR 21 2016

LIGHT FIXTURES
Planning & Codes Admin

11-13-15

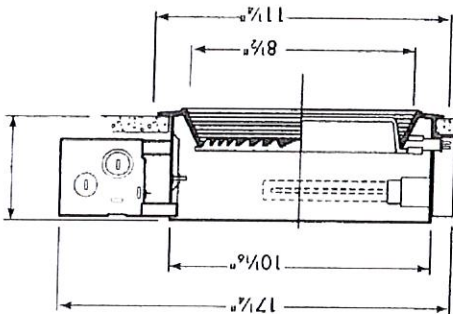


lensed, compact fluorescent downlight. The LFCSD offers an 8" square aperture solution with your choice of trim and lens options. This luminaire is ideal for a wide variety of low to medium height ceiling applications including commercial, retail, and hospitality spaces where a lensed fixture is preferred.

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.



Ceiling Cutout: $10\frac{3}{8}$ " sq.
 Maximum Ceiling Thickness: $\frac{5}{8}$ "
 For conversion to millimeters,
 multiply inches by 25.4
 Not to Scale

LifeFrame

DATE: TYPE: P

FIRM NAME: ELDON INC.

PROJECT: Let's Summit UMC

d

EXAMPLE: LFFQSG-H9 18EBDM 9SRDOP LP18Q430K

ACCESSORIES

□ FSDH
Eusebio for field

installation

T-bar adaptor for B7

sdunp om saunhax

Source: National Bureau of Economic Research.

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0107 12 1114

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binding with RIF or EM

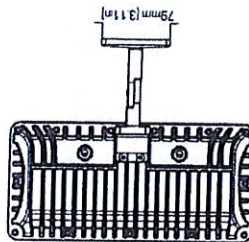
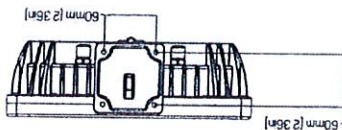
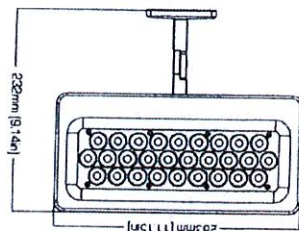
right to change, without

832 LFR-CFL-009

ILUMINARC®

ILUMIPANEL 28 IP OPTIC 30 RGB

Item Number: 01620438



Client: _____
 Project: LEE'S Summit UMC
 Date: _____ Type: 2

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
 Efficiency: 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 (13-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: Illuminarc
 Data Connector: 9.8 ft (3 m) Waterproof cable

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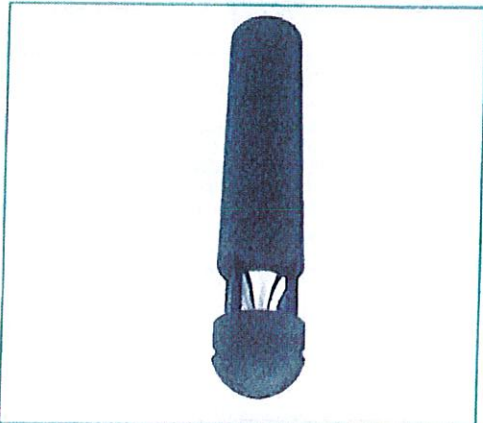


Product Web Page

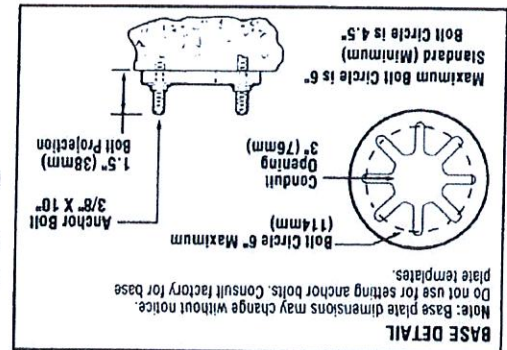
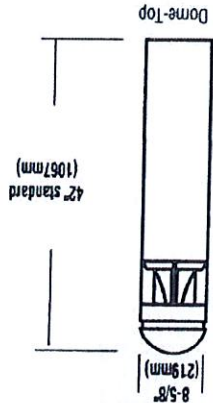
ILUMINARC
 5200 NW 108th Ave.
 Sunrise, FL 33351
 +1 954 923 3680

WWW.ILUMINARC.COM - INFO@ILUMINARC.COM
 Illuminarc reserves the right to make improvements to this product and its specifications at anytime without notice

LED BOLLARD LIGHT (XBVRD)



DIMENSIONS



SHIPPING WEIGHTS - LED Bollard

Catalog #	Est. Weight (kg/lbs.)	Length (mm/in.)	Width (mm/in.)	Height (mm/in.)
XBVRD	25/56	1318/51.875	311/12.25	251/9.875
XBVRF	25/56	1318/51.875	311/12.25	251/9.875
XBVRD	25/56	1318/51.875	311/12.25	251/9.875

LIGHT OUTPUT - XBVR

Description	# of LEDs	Lumens Output	Watts
Cool White XBVR ID	24	1338	38
Neutral White XBVR ID	24	1224	38
Warm White XBVR ID	24	856	38

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 (-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

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This product, or selected versions of this product, meet the standards listed below.



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ARCHITECTURAL LIGHTING

111 STRAWCUTTER ROAD, DERRY, PA 15627
P: 724.539.7270
F: 724.539.7746
WWW.CAMMANLIGHTING.COM

Mounting: Fixture is supplied with hardware for attachment to a 4 inch octagonal junction box (provided by others)

APPROVAL:

Notes:

Suitable for Dry Locations
DATE: 6/23/2014
TOTAL F/X TIME
WATTAGE 26 W

Date:

Finish:

Ballast:

Lamping:

Type:

Item No.:

Job Name:

Quote No.:

104188

Rev: 1

Qty:

3000 K

LED, 4000K Narrow Beam (Up / Down)

120/277v Dimming Driver 0-10v

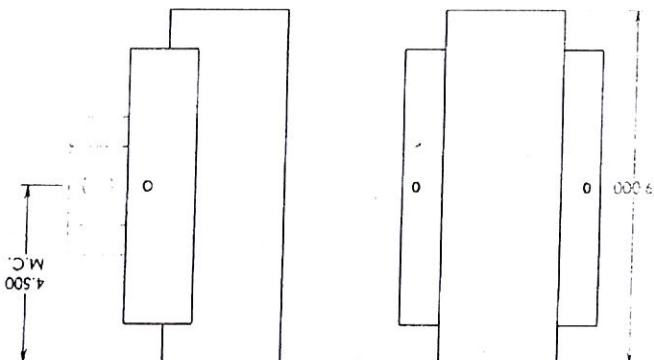
Standard Powder Coat

6/23/2014

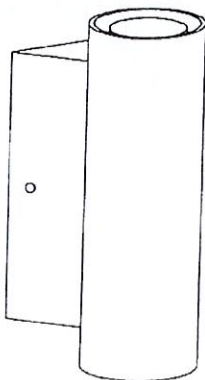
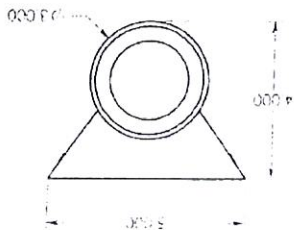
Suitable for Dry Locations

WATTAGE 26 W

TOTAL F/X TIME



Aluminum Body



(T80)

WET



Submitted by Shaw Supply Company

Job Name:

LEE'S SUMMIT WMC

Notes:

Catalog Number: WS80508-8

Type:

T

SHAW-1366

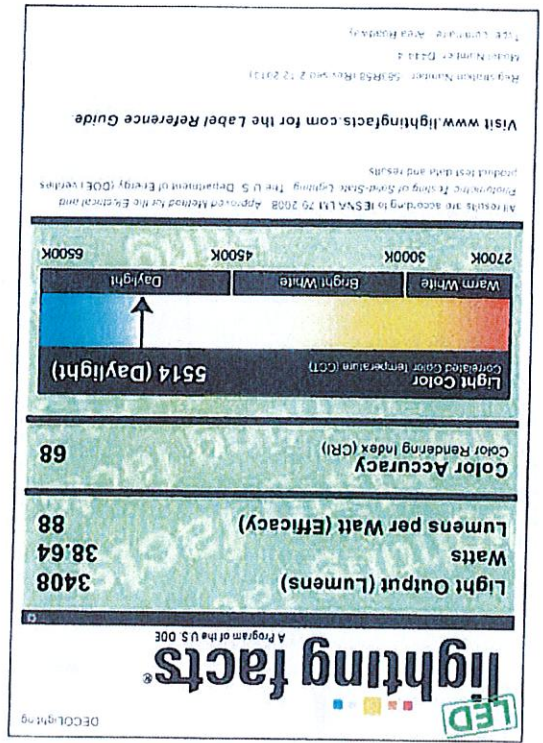
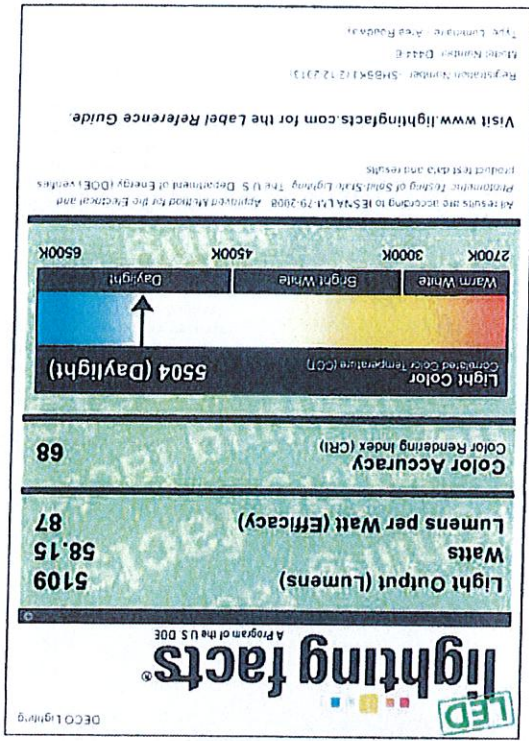
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60W LED

40W LED



Lighting Facts

LED lighting
DECO digital™ D444-LED
Medium Trapezoidal Cutoff Wallpack
Transforming tomorrow's lighting...today!

Job Information	
Type: C	Catalog #:
Project: LEE'S SUMMIT UMC	
Comments:	
Prepared by: BLDCOM INC.	

LED Lighting DECORATIVE LIGHTING™

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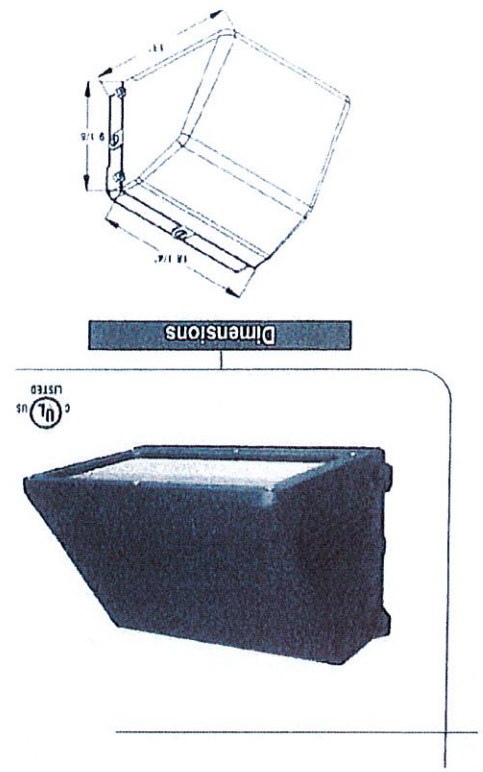
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- Heavy duty two piece, die cast aluminum housing
- aluminum reflector
- Silicone gasketing provides protection against moisture
- Mounts directly to 3.5" octagon, or 4" square outlet box
- 5" NPS tapped holes provided in three locations for surface 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

Features

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.

Description



Job Information	
Type: W	Catalog #:
Project: LEF's Summit UMC	
Comments:	
Prepared by: EURECON INC.	



LED lighting

D420-LED

Large Trapezoidal Cutoff Wallpack

NICHIA

POWERED BY:

DECO digital™ lighting systems

Transforming tomorrow's lighting...today!



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 electro-polished 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 3/12" 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 Phillips 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.

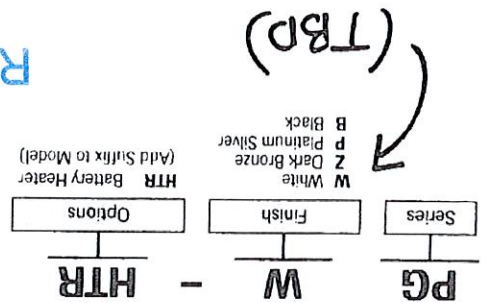
Compliances

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. D627916.

Warranty

Three-years full for unit, electronics and battery.

ORDERING GUIDE



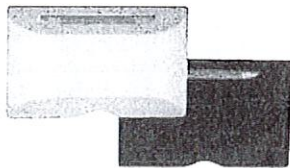
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PG Remote LED



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

Black



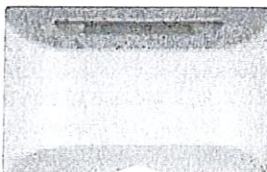
Platinum Silver



Dark Bronze



White



PG - (TRD) - HTR	Catalog Number
Z	Comments

Indoor/Outdoor Emergency Lighting Unit

PG

Z

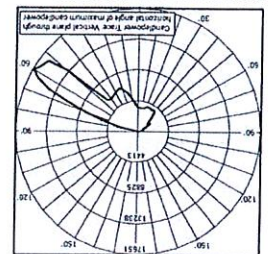
CREE

OSQ™ LED Area/Flood Luminaire – Large

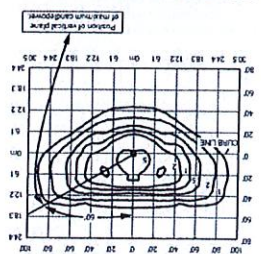
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Products/Outdoor/Area/OSQ-Series

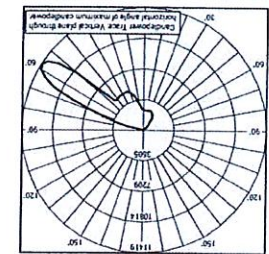
2ME



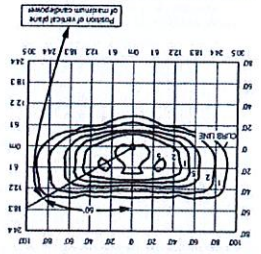
OSQ-A-2ME-S-40K-UL
Initial Delivered Lumens: 21,329



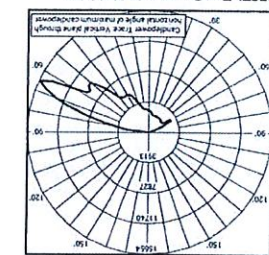
OSQ-A-2ME-S-40K-UL
Mounting Height: 25 (7.6m) A.F.G.
Initial Delivered Lumens: 21,696
Initial FC at grade



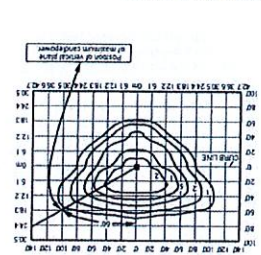
OSQ-A-2ME-S-40K-UL w/OSQ-BLSMF
Initial Delivered Lumens: 14,643



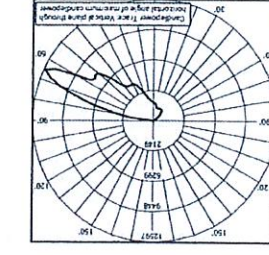
OSQ-A-2ME-S-40K-UL w/OSQ-BLSMF
Mounting Height: 25 (7.6m) A.F.G.
Initial Delivered Lumens: 18,997
Initial FC at grade



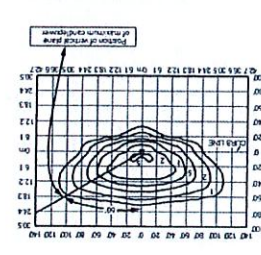
OSQ-A-3ME-S-40K-UL
Initial Delivered Lumens: 21,013



OSQ-A-3ME-S-40K-UL
Mounting Height: 25 (7.6m) A.F.G.
Initial Delivered Lumens: 21,475
Initial FC at grade



OSQ-A-3ME-S-40K-UL w/OSQ-BLSMF
Initial Delivered Lumens: 14,229



OSQ-A-3ME-S-40K-UL w/OSQ-BLSMF
Mounting Height: 25 (7.6m) A.F.G.
Initial Delivered Lumens: 18,375
Initial FC at grade

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For more information on the IES BUG (Backlight-Uplight-Clare) Rating visit:
www.ies.org/PDF/Errata/TM-15-11BUGRatingAddendum.pdf. Valid with no tilt.

Type II Medium w/BLS Distribution				
Input Power	Designator	Initial Delivered Lumens*		
		BUG	Per TM-15-11	Initial Delivered Lumens*
3000K	B2 U0 G2	15,584	18,597	19,867
4000K	B3 U0 G2			
5700K	B3 U0 G2			

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.

For more information on the IES BUG (Backlight-Uplight-Clare) Rating visit:
www.ies.org/PDF/Errata/TM-15-11BUGRatingAddendum.pdf. Valid with no tilt.

Type II Medium Distribution				
Input Power	Designator	Initial Delivered Lumens*		
		BUG	Per TM-15-11	Initial Delivered Lumens*
3000K	B3 U0 G2	18,182	21,696	23,179
4000K	B3 U0 G3			
5700K	B3 U0 G3			

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.

For more information on the IES BUG (Backlight-Uplight-Clare) Rating visit:
www.ies.org/PDF/Errata/TM-15-11BUGRatingAddendum.pdf. Valid with no tilt.

Type III Medium Distribution				
Input Power	Designator	Initial Delivered Lumens*		
		BUG	Per TM-15-11	Initial Delivered Lumens*
3000K	B3 U0 G3	17,996	21,475	22,942
4000K	B3 U0 G3			
5700K	B3 U0 G3			

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.

For more information on the IES BUG (Backlight-Uplight-Clare) Rating visit:
www.ies.org/PDF/Errata/TM-15-11BUGRatingAddendum.pdf. Valid with no tilt.

Type III Medium w/BLS Distribution				
Input Power	Designator	Initial Delivered Lumens*		
		BUG	Per TM-15-11	Initial Delivered Lumens*
3000K	B2 U0 G3	15,399	18,375	19,631
4000K	B2 U0 G3			
5700K	B2 U0 G3			

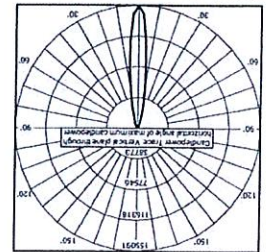
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.

OSQ™ LED Area/Flood Luminaire – Large

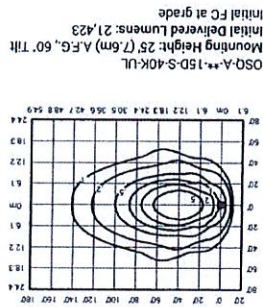
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Products/Outdoor/Area/OSQ-Series

15D

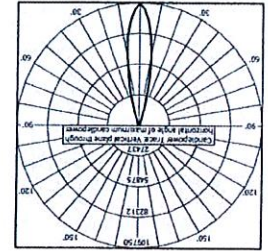


RESTR Test Report #: PL03903-001
OSQ-A-15D-S-40K-UL
Initial Delivered Lumens: 22,600

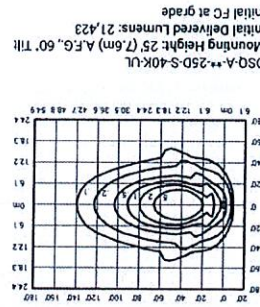


OSQ-A-15D-S-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 21,423
Initial FC at grade

25D

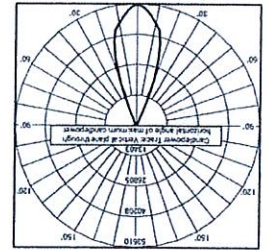


RESTR Test Report #: PL03903-002
OSQ-A-25D-S-40K-UL
Initial Delivered Lumens: 22,633

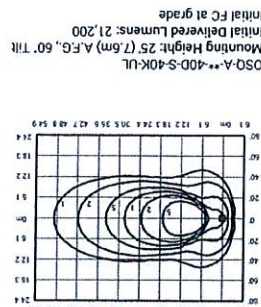


OSQ-A-25D-S-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 21,423
Initial FC at grade

40D



RESTR Test Report #: PL03903-003
OSQ-A-40D-S-40K-UL
Initial Delivered Lumens: 22,404



OSQ-A-40D-S-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 21,200
Initial FC at grade

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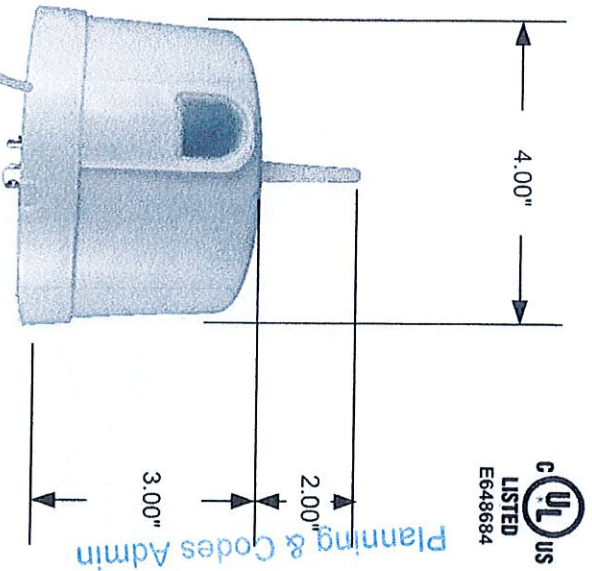
40' Flood Distribution			
Input Power	Designator	Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens	
		Initial Delivered Lumens*	Initial Delivered Lumens*
3000K	4000K	21,200	21,515
5700K			

25' Flood Distribution			
Input Power	Designator	Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens	
		Initial Delivered Lumens*	Initial Delivered Lumens*
3000K	4000K	21,423	21,741
5700K			

15' Flood Distribution			
Input Power	Designator	Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens	
		Initial Delivered Lumens*	Initial Delivered Lumens*
3000K	4000K	21,423	21,741
5700K			

OSQ™ LED Area/Flood Luminaire – Large

**** All interfaces are contained within the TOP900 module itself
No additional modules need be installed within fixture
for 0-10V or bi-level control**



Wireless Control

- Schedule on/off based on TOD or Astro-time
- Control by: Site / Network / Group / Device
- Modify and send new control schedules
- Enable/disable peer-peer control (mainly for pathway control with motion sensors)
- Hi light-level trimming

Control Lines From Unit

- Dimming: 0-10V
- Bi-Level control contacts
- 2 Inputs: Emergency call button, Motion detector
- +12V & GND for photocell

GPS Located, Wireless Network Lighting Control Module

Directly replaces existing twist-lock mount photo sensor

Operating Voltage: 100 – 277Vac 50/60Hz

345J MOV Protection

Average power consumption: <1W

Operating Temperature: -40C to +70C (Exceeds ANSI 136.10)

Lamp fixture control On/Off: 1000W/1000VA @ 100 - 277Vac 50/60Hz

Failsafe - ON

Revenue Grade Power Metering @ < 2% accuracy. Measure & Records:

- Active (Real) Power
- RMS Volts
- RMS Current
- Apparent Power
- Power Factor

Data-Logger: Logs all output transitions including dimming output levels for recovery

Measure Light Level & Module Temperature

Programmable control schedule based on TOD and/or astronomical time

Programmable weekday and weekend control schedules

Maintenance thresholds settings for current and voltage

Photocell control only for daytime overrides when dark or if unit loses its clock time.

Override any control Commands

Tilt Sensor: Knock-down indication (Option)

Photocell dark/light synchronization function

Detect fixture failures

Wireless Node:

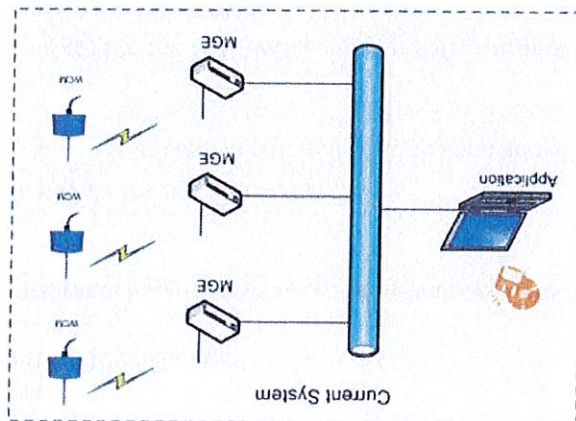
- Wireless Standard: IEEE 802.15.4
- Operating Frequency: 902 – 928MHz
- RF power +24dbm
- FCC Modular Certified
- Network Type: Star-Mesh Repeater
- Networks: Wired/Wireless LAN, WAN, WWAN
- 3Km (2 mile) range LOS
- Built-in message forwarding and repeater function in all nodes

FCC & IC Approved
IP66 Certified
UL cUL E348684

Requires installation of (or replacement of existing receptacle) with
Lumewave twist-lock photocell receptacle (with slot for control wire)

 Lumewave, Inc. Wireless Lighting Controls	Part No: TOP900-TL
Description: Wireless Photocell Replacement Control Module	
Drawn By: MKK	Date: 8-6-12 Rev: H

Lumestar Networking Basic (IT) Information V2

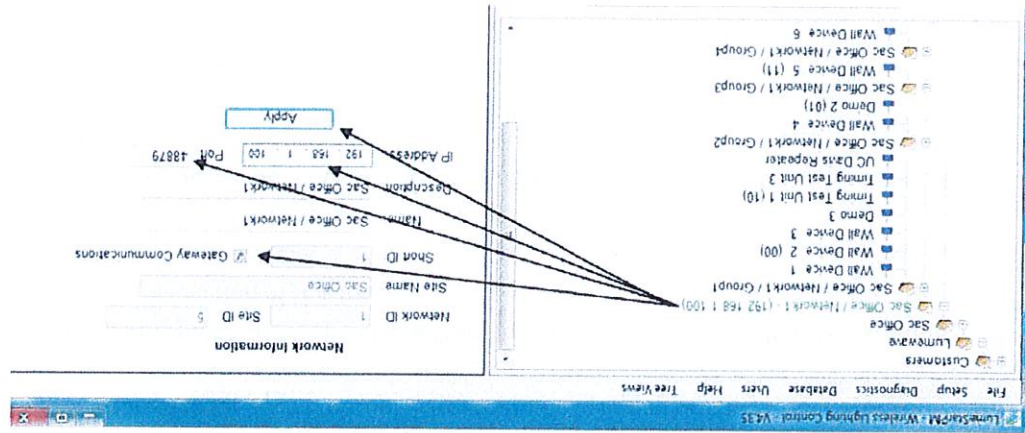


Lumestar, wireless lighting control software is a single-user, desktop application. It is very simple to set up and maintain and generally requires little, if any IT department involvement.

It is designed to run on Windows based computers or laptops connect and communicate through Lumeware Ethernet Gateways (MGE) installed on the LAN to Lumeware wireless lamp controllers within range of each gateway.

Many installation will only need 1 gateway. Larger facilities will require multiple gateways be installed at various locations throughout a facility to assure the RF signals is range of groups of wireless control modules.

The Lumestar application allows for connection to up to 255 Ethernet gateways (MGE's). The IP address of each gateway, assigned by the IT department, will be entered when setting up each network in the application.



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MGE

The Lumewave MGE (Mini Gateway Ethernet) provides a web-based setup page that allows you to set required operating attributes for the gateway, IP address, Subnet, Default gateway, etc. Gateways are all delivered with 192.168.1.100 as their default IP address.

See user manual.

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Ron Denning

To:

Subject:

brathsam
The Summit - Pole Light Base detail

Importance:

High

Brian,
Please find attached a detail of pole light bases we have used on past projects. Most recent ALBC.
Pole height cut sheets and photometric were based on the base being 3 feet tall above finish grade.
This is reflected in the attached sketch.
Eventually A L Huber will ask for this detail for installation.
FYI, we are not civil engineers so this will need to be looked at by Matt as we did on ALBC.
I am not aware of a pole light base detail in the civil drawings,,,,,, please advise if this is in error.
Regards,
Ron Denning

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