

NEW LIGHT POLE 'C' / 'D' / 'E'

NOTE:
CONTRACTOR SHALL PROVIDE NEW POLE BASES WHERE INDICATED ON PLANS. LIGHTING FIXTURE
POLE DETAILS AND DESCRIPTIONS ARE FOR ELECTRICAL REFERENCES ONLY. THE POLE AND BASE SHALL BE DESIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ARIZONA AND BE STAMPED AND SEALED ACCORDINGLY.

Schedule									
Symbol	Label	Quantity	Manufacturer	Catalog Number	Number Description		Lumens Per Lamp	Light Loss Factor	Wattage
	А	32	CREE	CPY250-C-13L-57K7-F- UL-DM-WH-HZ	CPY250 Canopy Luminaire, 13L Lumen Package, 5700K, 70 CRI, Flat Lens, 120- 277V	1	14015	0.91	86.4
	В	6	CREE	CPY250-C-4L-57K7-F-UL- -DM-BZ-HZ	CONFIGURED FROM CPY250 Canopy Luminaire, 13L Lumen Package, 5700K, 70 CRI, Flat Lens, 120-277V	1	4890	0.91	31
	С	1	CREE	XSPLG-D-HT-3ME- BLS 24L-57K7-UL-BZ-N	CONFIGURED FROM XSPLG LED Street/Area Luminaire - Large, 24L Lumen Package, Type III Medium Optic Distribution w/ Backlight Shield, 40k CCT, 70 CRI	1	16900	0.91	184
	D	1	CREE	XSPLG-D-HT-4ME- BLS 24L-57K7-UL-BZ-N	CONFIGURED FROM XSPLG LED Street/Area Luminaire - Large, 24L Lumen Package, Type IV Medium Optic Distribution w/ Backlight Shield, 40k CCT, 70 CRI	1	17400	0.91	184
	Е	4	CREE	XSPLG-D-HT-5SH-24L- 57K7-UL-BZ-N	CONFIGURED FROM XSPLG LED Street/Area Luminaire - Large, 24L Lumen Package, Type V Short Optic Distribution, 30K CCT, 70 CRI	1	22801	0.91	184
\bigcirc	F	9	ALW	CRM6/WL 20 83 40 80 NN N V10 L SB UP	CORE 6 WALL MOUNT WITH UPLIGHT	1	2161	0.91	15.9

Statistics							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	
LIGHT SPILL AT PROPERTY LINE	Ж	0.1 fc	0.3 fc	0.0 fc	N/A	N/A	
SITE LIGHTING	+	8.8 fc	54.3 fc	0.0 fc	N/A	N/A	



7 ELEVEN - POWER & ELLIOTT

SEC OF POWER ROAD AND ELLIOT, MESA, AZ MESA, ARIZONA DATE: 01-29-2024 (PRELIMINARY)

EO.1 PHOTOMETRIC SITE PLAN









Product Description

The CPY250® LED Canopy/Soffit Luminaire has an extremely thin profile constructed of rugged cast aluminum. It can be surface mounted easily from below the canopy deck and can be pendant mounted. Direct imaging of the LEDs is eliminated with a highly efficient patterned flat or 0.91" [23mm] drop glass lens. Applications: Petroleum canopies, CNG fueling stations, soffits

Performance Summary Assembled in the USA by Cree Lighting from US and imported parts

Initial Delivered Lumens: Up to 21,000 Efficacy: Up to 165 LPW CRI: Minimum 70 CRI (40K, 50K, 57K); 80 CRI (30K); 90 CRI (40K, 50K)

CCT: 3000K, 4000K, 5000K, 5700K **Limited Warranty**[†]: 10 years for luminaire/10 years for Colorfast DeltaGuard® finish/5 years for BML sensor/up to 5 years for Synapse® accessories/1 year for field-installed accessories IP66 Rated (select models only)

Class I. Division 2 Hazardous Location for select models *See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

Accessories

Field-Installed Direct Mount Luminaires Pendant Mount Luminaires Canopy Upgrade Kits (18 ga. steel, except where noted) Pendant Mount Kits CPY-AP304* - for use with Cree Lighting CAN-304 luminaires, 16 ga. 5052 XA-BXCCM+ – for use with Jet-Philips, 21.60" [549mm] square
XA-BXCCN+ – for use with Elsco Franciscan, 22.06" [560mm] square
XA-BXCCP+ – for use with LSI Dakota or Masters, 22.50" [572mm] square
XA-BXCCQ+ – for use with Whiteway Riviera or Rig-A-Lite, 20.60" [523mm] XA-PS22KIT* - 15" [381mm] pendant Includes two conduit fittings and 3/4-14 NPT pipe threaded on two Synapse® SimplySnap 10V Interface XA-BXCCR+ – for use with Elsco Merrit, 18.06" (459mm) square
XA-BXCCS+ – for use with LSI Richmond or Whiteway Civic, 23.00" (584mm) L
x 13.00" (330mm) W - Requires other Synapse components to

Direct Mount Junction Box/Stem Kit XA-BXCCJBOX - 6.0" (152mm) H x 3/4" [19mm] NPT Stem - Watertight - Rated for feed through 8 (4 in, 4 out) #12 AWC conductors

Direct Mount Beauty Plates
XA-BXCCBP+ - 26.17" (665mm) Beauty Plate Only (18 ga. steel) XA-BXCCBPB12+ - 26.17" (665mm) Beauty Plate (18 ga. steel) w/12" (305mm) Backer Plate (16 ga. steel) - For use in canopies where deck opening is larger than what is required for mounting the CPY250 luminaire. Maximum deck opening 10.75" x 15" [183mm x 375mm] XA-BXCCBPB16+ – 26.17" (665mm) Beauty Plate (18 ga. steel) w/16" (406mm) Backer Plate [16 ga. steel]

- For use in canopies where deck opening is larger than what is required for mounting the CPY250 luminaire. Maximum deck opening 12" x 15" [305mm x 375mm]

Supplied Self-Sealing Sheet Metal Screws 12.5 lbs. (5.7kg) Refer to Page 4 for additional mounts.

- Refer to <u>DIM10-220F</u> spec sheet for

complete system

*Must specify color: BK (Black), BZ (Bronze), SV (Silver) or WH (White) + Must specify color: T (Black), Z (Bronze), S (Silver) or W (White)

CPY250	С								
Product	Version	Lumen Package*	CCT/CRI	Optic	Voltage	Mounting	Color Options	Controls	Options
CPY250	С	2L 2,000 Lumens 4L 4,000 Lumens 8L 8,000 Lumens 13L 13,000 Lumens 21L 21,000 Lumens	30K8 3000K, 80 CRI 40K7 4000K, 70 CRI 4009 4000K, 90 CRI 50K7 5000K, 70 CRI 50K9 5000K, 90 CRI 57K7 5700K, 70 CRI	D 0.91" (23mm) Drop Lens F Flat Lens	UL Universal 120- 277V UH Universal 347- 480V - Available only in 4L-21L lumen packages	DM Direct FM Flush Mount H6 Car Wash HC Hook & Cord PD Pendant	BK Black BZ Bronze SV Silver WH White	BLANK Non-Dimming 10V 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details BML Bluetooth® Technology Enabled Multi-Level Sensor - Utilizes a multifunction sensor - Available only with UL voltage - Refer to BML spec sheet for details - 8-20' sensor lens installed on luminaire; 20-40' sensor lens and aisle shroud included - Not available with other controls	10KV 10kV/5kA Surge Suppression Replaces standard 6kV/3kA surge suppression Not for use with BML as BML option includes10kV/5kA surge as standard HZ Class I, Div. 2 Hazardous Location Certification Available with DM and PD mounts only Not available with BML control or K option K NSF 2 Certification Luminaires include NSF certification mark Suitable for DM mount only Not available with BML control or HZ option

* Lumen Package codes identify approximate light output only. Actual lumen output levels may vary depending on CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values.

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

CREE LIGHTING



XSPMD LED Street/Area Luminaire – Medium Rev. Date: V9 02/20/2023 **Product Description** Designed from the ground up as a totally optimized LED street and area lighting system, the XSP Series delivers incredible efficiency without sacrificing application performance. Beyond substantial energy savings and reduced maintenance, Cree Lighting achieves greater optical control with our NanoOptic® Precision Delivery Grid™ optic when compared to traditional cobra head luminaires. The XSP Series is the better alternative for traditional street and area lighting with quick payback and improved **Applications:** Collector roads, major roads, parking lots, and general area spaces Performance Summary NanoOptic® Precision Delivery Grid™ optic Receptacle Location Assembled in the USA by Cree Lighting from US and imported parts Initial Delivered Lumens: Up to 11,875 Efficacy: Up to 125 LPW CRI: Minimum 70 CRI CCT: 3000K, 4000K, 5000K, 5700K Limited Warranty[†]: 10 years on luminaire; 10 years on Colorfast DeltaGuard[®] finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories † See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms. Utility Label Location Accessories Field-Installed Backlight Control Shield XA-SP1BLS - Provides 1 mounting height cutoff - Polycarbonate construction - Refer to initial delivered lumen tables for lumen output 14.2 lbs. (6.4kg) Ordering Information Example: XSPMD-D-HT-2LG-12L-30K7-UL-SV-N

C-D-E

Utility Label/Receptacle Options 20KV 20kV/10kA Surge Suppression 2LG** Type II Long NEMA® 7-Pin Photocell Receptacle - Available with UL voltage only per ANSI C136,15-2020 Small Four Bolt Mounting
- Mounts to 1.25" (32mm) IP, 1.66" (42mm) 0.D. 5700K, 70 CRI Receptacle leads are Large Four Bolt Mounting
- Mounts to 2" (51mm) IP, 2.375" (60mm) O.D. Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1 shorting cap (by others) Field Adjustable Output
- Must select Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 Symmetric Offers full range lumen adjustability Includes wattage label for setting selected Refer to page 8 for power and lumen values
 Luminaire may also be dimmed through 7-Pin receptacle with use of dimming control by others X8/X7/X6/X5/X4/X3/X2/X1 Locked Lumen Output
- Must select X8, X7, X6, X5, X4, X3, X2, or X1 selected
Includes wattage label for setting selected - Refer to page 8 for power and lumen values - Dimming is only available through 7-Pin receptacle with use of dimming control by others

US: <u>creelighting.com</u> [800] 236-6800

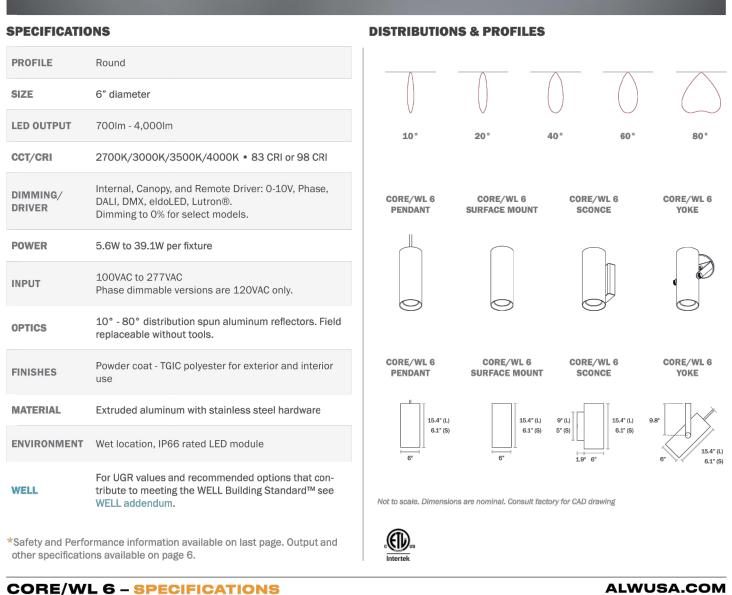
Canada: creelighting-canada.com (800) 473-1234

XSP Series

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

CORE/WL 6 **ROUND, WET LOCATION, DIRECT ILLUMINATION**





PRODUCT SUBMITTAL QUICK WORKSHEET

CORE/WL 6 - SPECIFICATIONS

1 2 3 4 5 6 7 8 9 10 11 12 13 EVALUE E OPPO MU OCCOSTOUL DVGO L DADY GO AC END

*See page 5 for finish chart.
**Manually type the finish code into the parametric code above.

ROUND, WET LOCATION, DIRECT ILLUMINATION

1. MODEL (CHOOSE 1)	2. OUTPUT (CHOOSE 1)	3. CRI (CHOOSE 1)	4. CCT (CHOOSE 1)		
CRP6/WL Pendant CRM6/WL Surface Mount CRS6/WL Sconce CRY6/WL Yoke	□ 07 700 im □ 10 950 im □ 13 1300 im □ 20 2000 im □ 30¹ 3000 im □ 40² 4000 im ¹Available for 83CRI only	□ 83 83 □ 98 98	□ 27 2700K □ 30 3000K □ 35 3500K □ 40 4000K		
5. REFLECTOR* (CHOOSE 1)	6. OPTICAL ACCESSORY* (CHOOSE 1)	7. DRIVER LOCATION* (CHOOSE 1)	8. DIMMING * (CHOOSE 1)		
□ 10° (0.3 S/MH) □ 20° (0.4 S/MH) □ 40° (0.7 S/MH) □ 60° (0.8 S/MH) □ 80°	NN None HL³ Honeycomb Louver DF Diffusion Lens Lis Linear Spread Lens (60° x 1°) WW Wall Wash Lens (shifts beam 20° from vertical) FT* Forward Throw Not available for UP sconce style. Available for sconce only.	Ns.s Internal Remote Do Deep Canopy See 'Dimming/driver location compatibility on page 7 to ensure correct dimming specification. Available for sconces or 1 shell heights only. Internal driver located in arm on sconces. Not available for sconces.	V10 (0-10V, dim to 10%) P10 (Phase, dim to 10%) ELDV0³ (eldoLED, 0-10V, dim to 0%) LDE1³ (Lutron ECOSYS1, 0-10V, dim to 1%) LTEA³ (Lutron HI-Lume, Phase dim, 2-wire to 1%) DAL1³ (DALI, dim to 0%) DMX³ (DMX, dim to 0%) "See 'Driver' and 'dimming/driver compatibility' charts for dimming compatibility. "Premium drivers available for remote driver location only.		
9. SHELL HEIGHT* (CHOOSE 1)	10. SHELL COLOR* (CHOOSE 1)	11. SUSPENSION* (CHOOSE 1)	12. SUSPENSION OPTIONS* (OPTIONAL CHOOSE 1)		
L 15.4" Shell So.10 6.1" Shell "See page 3 for shell dimension drawings. "Available for remote and deep canopy driver locations. "Internal driver location available for sconces only.	FINISHES** SQ Silver Gray SW Satin White SB Satin Black — Specify Finish Code (Ex: OB = Oil-Rubbed Bronze) SPECIAL ORDER FINISHES** RAL S003) - CAT Specify Catalog Colors CCM Specify Custom Color Match See page 5 for finish chart. Manually type the finish code into the parametric code above.	PENDANT OPTIONS BK11 Black Cord R\$## 12 Rigid Stem S\$## 12 Swivel Stem YOKE OPTIONS SC Standard Canopy R\$## 12 Rigid Stem Swivel Stem Swivel Stem *Selection not required for surface mount and sconce. 13 Standard cord length 6ft. For longer cords, type desired length after cord style in product code above (i.e Bk//8 = Black Cord + 6ft cord length) 13 Type desired stem length (4" -100") into product code above.	PENDANT OPTIONS AC Aircraft Cable SB13 Seismic Bracing SCONCE OPTIONS UP14 Uplight 3Seismic bracing only available for Rigid Stem suspensions 4Includes reflector cover.		

13. EMERGENCY OPTIONS* (OPTIONAL) *Emergency options only available with 0-10V driver options Third party inverter system recommended for other driver options. Refer to ALW EM Solution Catalog for all compatibility exceptions.

Alwaliable for remote driver only.

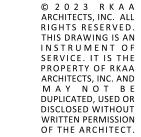
ALWUSA.COM CORE/WL 6 - SPECIFICATIONS ROUND, WET LOCATION, DIRECT ILLUMINATION

7 ELEVEN - POWER & ELLIOTT

SEC OF POWER ROAD AND ELLIOT, MESA, AZ MESA, ARIZONA DATE: 01-29-2024 (PRELIMINARY)

ELECTRICAL **EXTERIOR** SHEETS & IEEC

SS071222







COMcheck Software Version COMcheckWeb

2018 IECC

24073 - 7eleven

New Construction

Owner/Agent:

3 (Other (LZ3))

Project Information

SEC OF POWER ROAD AND ELLIOT,

Allowed Exterior Lighting Power

STORE FACADE (Outdoor sales area/lot)

Proposed Exterior Lighting Power

GAS STATION (Special feature area)

PARKING (Parking area)

areas/surfaces.

LED: B: WALL SCONCE: Other:

LED: F: CANOPY FIXTURE: Other:

LED: A: CANOPY FIXTURE: Other:

LED: C: SINGLE HEAD POLE: Other:

LED: D: SINGLE HEAD POLE: Other:

LED: E: SINGLE HEAD POLE: Other:

Exterior Lighting Compliance

HICHAM KHACHANE, PM.

Statement

Area/Surface Category

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

STORE FACADE (Outdoor sales area/lot, 2251 ft2): Tradable Wattage

GAS STATION (Special feature area, 7255 ft2): Tradable Wattage

PARKING (Parking area, 51880 ft2): Tradable Wattage

Exterior Lighting PASSES: Design 23% better than code

mandatory requirements listed in the Inspection Checklist.

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast

Energy Code:

Project Title:

Project Type:

Exterior Lighting Zone

Construction Site:

MESA, Arizona

MESA. AZ

Exterior Lighting Compliance Certificate

7255 ft2

51880 ft2

(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans,

specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been

designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable

Designer/Contractor:

Watts / Wattage

Total Tradable Watts (a) =

Total Allowed Watts =

0.11

0.06

Total Allowed Supplemental Watts (b) =

Allowed Tradable Allowed Watts

C D E

184

184

Total Tradable Proposed Watts = 4025

Lamps/ # of Fixture (C X D)

Fixture Fixture Watt.

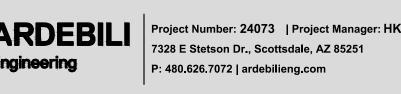
(B X C)

798

3113

4699

4699





LIGHTING CUT

INSTRUMENT OF SERVICE. IT IS THE PROPERTY OF RKAA ARCHITECTS, INC. AND M A Y N O T B E DISCLOSED WITHOUT WRITTEN PERMISSION