MWL
515-231-3928
Cameron Lewis

Description: See Highlighted Below

Project Name:
CASA RAMOS

TYPE

B

LUND
EW3210-BK

WALL

PROJECT

DESCRIPTION

High powered LED exterior two light wall mount fixture, die-cast aluminum housing molded into a cylinder shape with in powder coated black finish. Concealed inside is our 120V AC LED technology with a tempered glass diffusers radiating light upward and downward against the wall where installed. Certified ETL wet location listed and is available in different sizes and one light options.
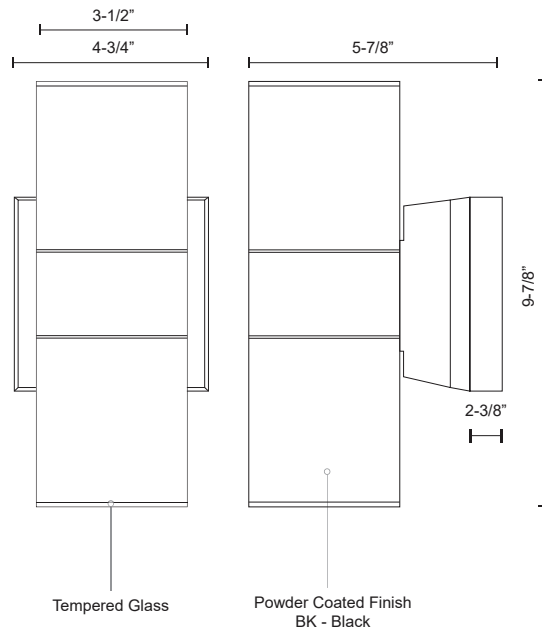
SPECIFICATION DETAILS

* For custom options, consult factory for details.

Fixture Dimensions	W3-1/2" x H9-7/8" x E5-7/8"
Light Source	LED
Wattage	24W
Total Lumens	1600lm
Delivered Lumens	BK-1177lm
Voltage	120V
Color Temperature	3000K
CRI (Ra)	>90
Optional Color Temps	2700K - 5000K Available, Minimum Order Quantities Apply
LED Rated Life	50,000 hours
Dimming	100% - 10%, ELV Dimmer (Not Included)
Diffuser Details	Tempered Glass
Location	Wet
Warranty	5 Years
Canopy Dimensions	W4-3/4" x H4-3/4" x E2-3/8

3-1/2"
4-3/4"
5-7/8"
9-7/8"
2-3/8"

Tempered Glass

Powder Coated Finish
BK - Black

KUZCO

COMMENT

ETL
Intertek

LED Lamp Wall Sconce

EW3210-BK
INSTALLATION SHEET

START FROM HERE

• Make sure **POWER** is **COMPLETELY OFF** at the fuse box
• Have your fixture installed by a qualified licensed electrician
• Prepare everything in a clear area
• Wear gloves at all time during this installation
• Read instructions carefully before you start assembly
• Keep this installation sheet for future reference

Technical Support: 1-855-855-8926

Please Note:
• This Kuzco LED fixtures come with pre-wired LED module(s)
• Unless instructed, Do Not touch any part of the LED module(s) as any unnecessary contact with the module could cause permanent damage
• Use ELV (Electronic Low Voltage) type of dimmer for dimming application
• **Black finish only**

1. Remove the fixture from its original packaging. Remove the mounting plate **(1c)** from within the canopy **(2b)** by removing the two canopy screws **(2a)**. Attach the mounting plate **(1c)** to the electrical junction box **(1a)** using the two screws **(1d)** provided in the hardware package.

2. Attach the canopy **(2b)** to the mounting plate **(1c)**, which is attached to the electrical junction box **(1a)** on the wall. First attach all wiring with provided marettes **(1b)** (white to white "N", black to black "L", ground to ground "G"). Now push the canopy **(2b)** onto the mounting plate **(1c)** and install using the two canopy screws **(2a)**.

3. To prevent moisture from entering the outlet box and causing a short, seal around the top and side perimeter between the fixture and the wall surface with weather resistant caulking **(see illustration 3)**. The space at bottom should be left un-caulked to prevent moisture build-up.

4. You have now completed the installation of your fixture, please enjoy.

Illustration 3.
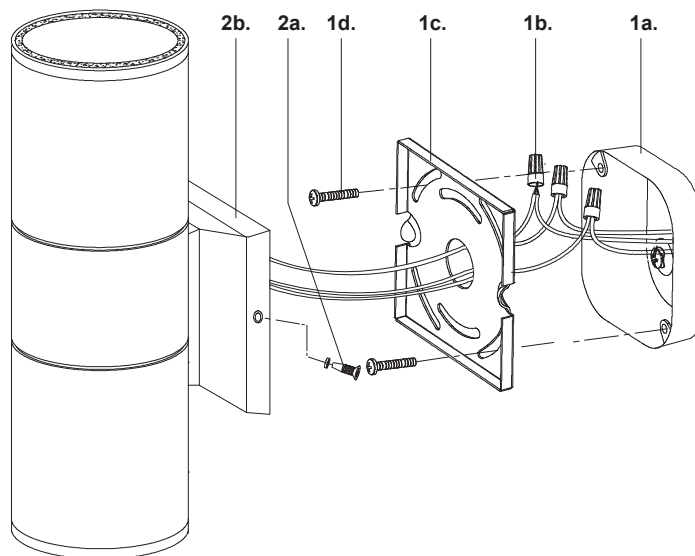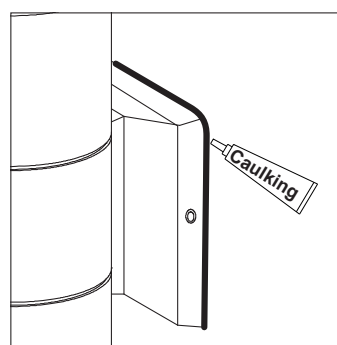
Caulking

2b. **2a.** **1d.** **1c.** **1b.** **1a.**

KUZCO

Project		Catalog #		Type	
Prepared by		Notes		Date	

Lumark

Axcent

Wall Mount Luminaire

Typical Applications

Wall · Surface · Inverted · Floodlighting · Pathway

Interactive Menu

Product Certifications

Product Features

Enlighted · WaveLinx · Selectable lumens · DUSK-TO-DAWN

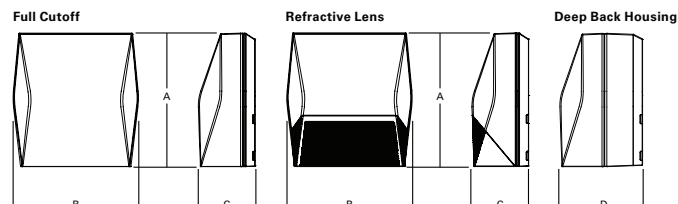## Quick Facts

- Available in 14W - 123W (1,800 - 17,000 lumens) models
- Full cutoff and refractive lens models available
- Energy and maintenance savings up to 95% compared to HID
- Energy efficient illumination results in up to 144 LPW
- Replaces 70W up to 450W HID equivalents

Dimensional Details

Full Cutoff

Refractive Lens

Deep Back Housing

Dimensional Data

	AXCS Small	AXCL Large
A	8" [202mm]	11-1/2" [292mm]
B	7-1/2" [190mm]	10-3/4" [273mm]
C	3-5/8" [94mm]	4-7/8" [124mm]
D	6-1/8" [155mm]	7-1/8" [181mm]

COOPER Lighting Solutions

MWL
515-231-3928
Cameron Lewis

Description: See Highlighted Below

Project Name:
CASA RAMOS

TYPE
L

Lumark | AXCS / AXCL Axcent

Ordering Information
SAMPLE NUMBER: **AXCS1A-AP-347V**

Model Series [1]	LED Color Temperature	Color	Options (Add as Suffix)
Full Cutoff **AXCS1A**=14W **AXCS2A**=21W **AXCS3A**=27W **AXCS4A**=44W **AXCS5A**=52W **AXCL6A**=56W **AXCL8A**=72W **AXCL10A**=102W **AXCL12A**=123W **Refractive Lens** **AXCS1ARL**=14W **AXCS2ARL**=21W **AXCS3ARL**=27W **AXCS4ARL**=44W **AXCS5ARL**=52W **AXCL6ARL**=56W **AXCL8ARL**=72W **AXCL10ARL**=102W **AXCL12ARL**=123W	**[Blank]**=4000K, Neutral **C**=5000K, Cool **W=3000K, Warm**	**[Blank]**=Carbon Bronze (Standard) **WT**=Summit White **BK**=Black **AP**=Grey **GM**=Graphite Metallic **DP**=Dark Platinum	**347V**=347V [2] **480V**=480V [2] **PC1**=Photocontrol 120V [3, 4, 5] **PC2**=Photocontrol 208-277V, 347V, 480V [4, 5, 6] **PC**=Photocontrol 120-277V, 347V, 480V [4, 7, 8] **KKIT**=Knuckle Floodlight Mount [7] **TRNKIT**=Trunnion Floodlight Mount **SFKIT**=Slipfitter Floodlight Mount **PMAKIT**=Pole Mount Arm **ZW**=WaveLinx-enabled 4-PIN Twistlock Receptacle [4, 9] **ZW-SWPD4XX**=WaveLinx Wireless Sensor, 7' – 15' Mounting Height [4, 9, 10, 11] **ZW-SWPD5XX**=WaveLinx Wireless Sensor, 15' – 40' Mounting Height [4, 9, 10, 11] **LWR-LW**=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [4, 9, 12] **LWR-LN**=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [4, 9, 12] **MSP/DIM-L12**=Integrated Sensor for Dimming Operation, 8' - 12' Mounting Height [4, 9, 13] **MSP/DIM-L30**=Integrated Sensor for Dimming Operation, 12' - 30' Mounting Height [4, 9, 13] **MSP-L12**=Integrated Sensor for ON/OFF Operation, 8' - 12' Mounting Height [4, 9, 13] **MSP-L30**=Integrated Sensor for ON/OFF Operation, 12' - 30' Mounting Height [4, 9, 13] **CBP**=Cold Weather Battery Pack [3, 14, 15, 16, 17, 18] **CBP-CEC**=Cold Weather Battery Pack, CEC compliant [3, 14, 15, 16, 17, 18] **10K**=10kV/10kA Surge Protection **HA**=50°C High Ambient [15, 19] **GRF**=Glare Reducing Lens [20] **AHD145**=After Hours Dim, 5 Hours [5, 21] **AHD245**=After Hours Dim, 6 Hours [5, 21] **AHD255**=After Hours Dim, 7 Hours [5, 21] **AHD355**=After Hours Dim, 8 Hours [5, 21]

Accessories (Order Separately) [22]

VS/AXCS-XX=Vandal Shield Axcent Small [7, 23] **VS/AXCS-MS**=Vandal Shield Axcent Small (With Motion Sensor) [7, 23] **WG/AXCS**=Wire Guard Axcent Small [7] **WG/AXCS-MS**=Wire Guard Axcent Small (With Motion Sensor) [7] **VS/AXCL-XX**=Vandal Shield Axcent Large [5, 23] **VS/AXCL-MS**=Vandal Shield Axcent (With Motion Sensor) [5, 23] **WG/AXCL**=Wire Guard Axcent Large [5] **WG/AXCL-MS**=Wire Guard Axcent (With Motion Sensor) [5] **BB/AXC**=Axcent Lumen Select Back Box [24] **BB/AXC-PC**=Axcent Lumen Select Back Box with PC [24] **BB/AXC-WT**=Axcent Lumen Select Back Box, White [24] **BB/AXC-WT-PC**=Axcent Lumen Select Back Box with PC, White [24]	**KKIT/AXCS-XX**=Knuckle and Visor Floodlight Kit (For Axcent Small) [7] **SFKIT/AXCS-XX**=Slipfitter Floodlight Kit (For Axcent Small) [7] **TRNKIT/AXCS-XX**=Trunnion and Visor Floodlight Kit (For Axcent Small) [7] **TRNKIT-XX**=Trunnion Floodlight Kit (For Axcent Large) [5] **SFKIT-XX**=Slipfitter Floodlight Kit (For Axcent Large) [5] **PMAKIT-XX**=Pole Mount Kit **ISHH-01**=Integrated Sensor Programming Remote [25] **MA1010-XX**=Single Tenon Adapter for 3-1/2" O.D. Tenon **MA1011-XX**=2@180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1017-XX**=Single Tenon Adapter for 2-3/8" O.D. Tenon **MA1018-XX**=2@180° Tenon Adapter for 2-3/8" O.D. Tenon **SWPD4-XX**=WaveLinx Wireless Sensor, 7' – 15' Mounting Height [10, 11, 26] **SWPD5-XX**=WaveLinx Wireless Sensor, 15' – 40' Mounting Height [10, 11, 26]

NOTES:
1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Transformer used only when ordered with motion sensor or AXCS1 through AXCS5 or AXCL6 fixture wattages.
3. Not available in 347 or 480 VAC.
4. Button photocontrol and any motion sensor (MSP, ZW, or LWR) not offered together.
5. Only available on AXCL6-AXCL12 models.
6. Used with 277, 347, and 480 VAC options.
7. Only available on AXCS1-AXCS5 models.
8. This configuration may contain materials that are not RoHS compliant. Contact your lighting representative for more information.
9. Uses deep back housing.
10. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information.
11. Replace XX with sensor color (WH, BZ, or BK).
12. Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for application information.
13. The ISHH-01 accessory is required to adjust parameters.
14. Ambient operating temperature -20°C to 25°C for AXCL6 through AXCL10. Ambient operating temperature -20°C to 30°C on AXCS4 models. Ambient operating temperature -20°C to 40°C on AXCS1 through AXCS3 models.
15. Not available with AXCS5 or AXCL12 models.
16. Uses deep back housing for AXCS1, AXCLS2, AXCS3, and AXCS4 models.
17. Not to be mounted in upwards / inverted orientation. Downlight wall mount only for AXCS1 through AXCS4.
18. In AXCS1, AXCS2, AXCS3, and AXCS4 models, CBP cannot be used with any sensor option (PC, MSP, ZW, or LWR).
19. Can not be ordered with CBP or PC options.
20. Use dedicated IES files on product website for lumen values and distributions.
21. Requires the use of PC1 or PC2 button photocontrol. See After Hours Dim supplemental guide for additional information.
22. Replace XX with color designation.
23. For use with full cutoff lens configurations only.
24. Lumen Select functionality not available in conjunction with any motion sensor option (MSP, ZW, or LWR). Photocontrol back box not available with any photocontrol or motion sensor options (PC, MSP, ZW, or LWR).
25. This tool enables adjustment to parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult you lighting representative for more information.
26. Requires 4-PIN twistlock receptacle (ZW) option.

Stock Ordering Information

Model Series [1]			
Full Cutoff		**Refractive Lens**	
AXCS1A=14W	**AXCL10A**=102W	**AXCS1ARL**=14W	**AXCL10ARL**=102W
AXCS2A=21W	**AXCL12A**=123W	**AXCS2ARL**=21W	**AXCL12ARL**=123W
AXCS3A=27W	**AXCL6A-347V**=56W	**AXCS3ARL**=27W	**AXCL6ARL-347V**=56W
AXCS4A=44W	**AXCL8A-347V**=72W	**AXCS4ARL**=44W	**AXCL8ARL-347V**=72W
AXCS5A=52W	**AXCL10A-347V**=102W	**AXCS5ARL**=52W	**AXCL10ARL-347V**=102W
AXCL6A=56W	**AXCL12A-347V**=123W	**AXCL6ARL**=56W	**AXCL12ARL-347V**=123W
AXCL8A=72W		**AXCL8ARL**=72W	

Note: All stock configurations are 4000K color temperatures, standard Carbon Bronze finish, and wall mount configuration.

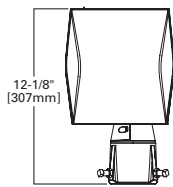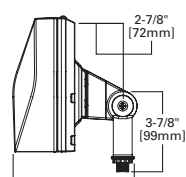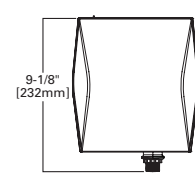**COOPER** Lighting Solutions

Lumark

AXCS / AXCL Axcent

Mounting Details

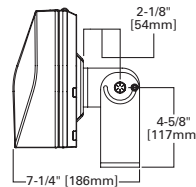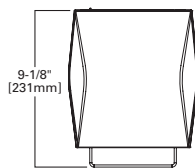**Slipfitter Mount** (Small)
Tenon OD: 2-3/8" | **EPA:** 0.60

12-1/8"
[307mm]

2-7/8"
[72mm]

6-7/8"
[174mm]

8-1/4" [212mm]

Knuckle Mount (Small)

9-1/8"
[232mm]

2-7/8"
[72mm]

3-7/8"
[99mm]

7-1/4" [183mm]

Trunnion Mount Detail

(2) 13/32" [9mm] x
13/16" [21mm]

1/2"
[13mm]

2-5/16"
[57mm]

4-3/8"
[35mm]

2-11/16"
[69mm]

5"
[127mm]

Trunnion Mount (Small)

9-1/8"
[231mm]

2-1/8"
[54mm]

4-5/8"
[117mm]

7-1/4" [186mm]
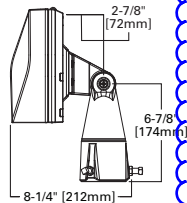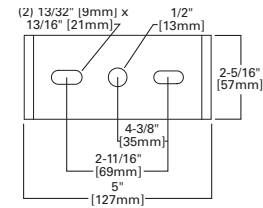
Slipfitter Mount (Large)
Tenon OD: 2-3/8" to 2-7/8" | **EPA:** 1.10

13-7/16"
[341mm]

2-3/4"
[70mm]

6-1/16"
[154mm]

9-3/4"
[249mm]
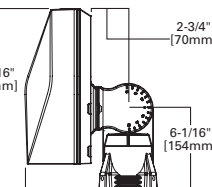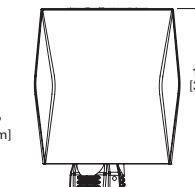
Pole Mount Arm Drill Pattern

1-1/4" [32mm]

6-15/16"
[177mm]

4-7/8"
[124mm]

4"
[102mm]

Ø9/16"
[15mm]

3-3/4"
[96mm]

Trunnion Mount (Large)

12"
[305mm]

2-1/8"
[54mm]

4-5/8"
[118mm]

8-7/16"
[215mm]
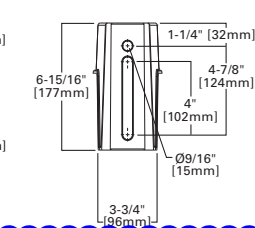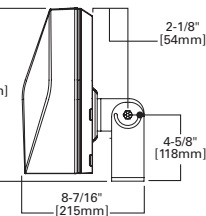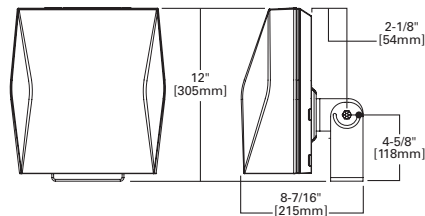
Pole Mount Arm (Large)
EPA: 1.10

Remove (2) tabs
for round pole
mount

8-7/16"
[215mm]

Lumen Select Back Box

3"
[76mm]

Ø0.27"
[7mm]

5-3/32"
[129mm]

5-21/32"
[143mm]

4-11/32"
[110mm]

2-3/32"
[53mm]
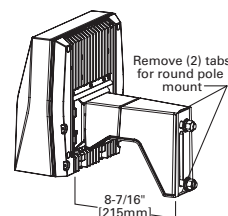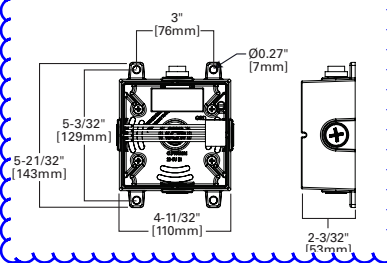
Wall Mount Plate Detail (Large)

4-3/4"
[120mm]

6-1/4" [159mm]

1/2"
[13mm]

Wall Mount Plate Detail (Small)

4-3/4"
[120mm]

4-3/4" [120mm]

7/16"
[11mm]
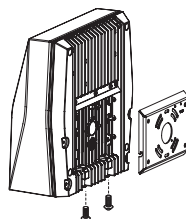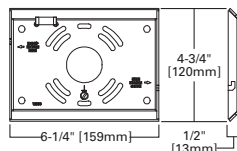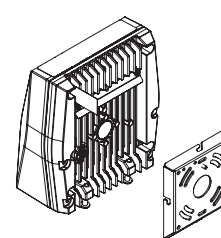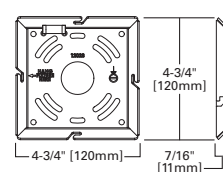
Enlighted Sensor
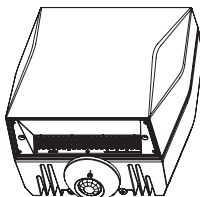
Occupancy Sensor
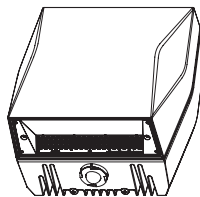
Button Photocontrol
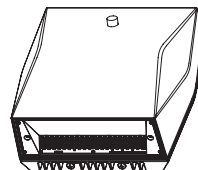
Vandal Shield
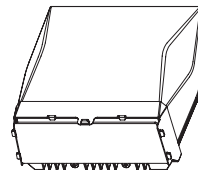
Wire Guard
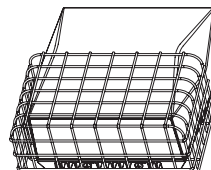
515-231-3928
Cameron Lewis

Lumark

AXCS / AXCL Axcent

Product Specifications

Construction
- Die-cast aluminum housing
- External back fin design extracts heat from the surface to thermally optimize design for longer luminaire life

Optics
- Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only)
- Silicone-sealed optical LED chamber
- Acrylic refractive or full cutoff lens options for Type IV distributions

Electrical
- Driver incorporates 6kV surge protection
- -40°C minimum operating temperature
- 40°C maximum operating temperature

- <20% total harmonic distortion
- 0-10V dimming driver is standard with leads external to the fixture

Mounting
- Steel wedge mounting plate fits directly to 4" standard j-box or directly to wall with the "Hook-N-Lock" mechanism
- Stainless steel set screws
- Lumen Select Back Box accessory offers four 1/2" NPT conduit entry wire ways. Resistor Pack combinations allow field-dimming of 75% or 50% when connected to luminaire dimming leads

Emergency Egress
- Optional integral cold weather battery emergency egress includes emergency operation test

switch, an AC-ON indicator light and a premium, maintenance-free battery pack
- The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting

Finish
- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness

Shipping Data
- Small fixture=5 lbs. [2.36 kgs.]
- Small with sensor or CBP=10 lbs. [4.40 kgs.]
- Large fixture=12 lbs. [5.45 kgs.]
- Large with sensor or CBP=17 lbs. [7.73 kgs.]
- Large with sensor & CBP=21 lbs. [9.54 kgs.]

Energy and Performance Data

Power and Lumens (Axcent Small)

Light Engine		AXCS1A	AXCS2A	AXCS3A	AXCS4A	AXCS5A
Power (Watts)		14	21	27	44	52
Input Current @ 120V (A)		0.12	0.18	0.23	0.37	0.43
Input Current @ 240V (A)		0.06	0.09	0.11	0.18	0.22
Input Current @ 277V (A)		0.05	0.08	0.10	0.16	0.19
Input Current @ 347V (A)		0.04	0.06	0.08	0.13	0.15
Input Current @ 480V (A)		0.03	0.04	0.06	0.09	0.11
Configuration						
Full Cutoff	4000K/5000K Lumens	1,806	2,561	3,537	5,520	6,300
	3000K Lumens	1,526	2,164	2,989	4,665	5,324
	BUG Rating	B1-U0-G0	B1-U0-G0	B1-U0-G0	B2-U0-G1	B2-U0-G1
Refractive Lens	4000K/5000K Lumens	1,915	2,716	3,704	5,858	6,699
	3000K Lumens	1,618	2,295	3,130	4,950	5,661
	BUG Rating	B1-U3-G2	B1-U3-G2	B1-U3-G2	B1-U4-G3	B1-U4-G3

Power and Lumens (Axcent Large)

Light Engine		AXCL6A	AXCL8A	AXCL10A	AXCL12A
Power (Watts)		56	72	102	123
Input Current @ 120V (A)		0.44	0.60	0.83	1.01
Input Current @ 240V (A)		0.22	0.31	0.41	0.51
Input Current @ 277V (A)		0.20	0.27	0.36	0.45
Input Current @ 347V (A)		0.17	0.22	0.30	0.37
Input Current @ 480V (A)		0.13	0.16	0.22	0.27
Configuration					
Full Cutoff	4000K Lumens	7,594	9,696	13,283	16,823
	5000K Rating	7,465	9,531	13,058	16,538
	3000K Lumens	6,619	8,450	11,577	14,662
	BUG Rating	B1-U0-G1	B1-U0-G1	B3-U0-G2	B3-U0-G2
Refractive Lens	4000K Lumens	7,809	9,970	13,641	17,346
	5000K Rating	7,689	9,817	13,450	17,034
	3000K Lumens	6,817	8,704	11,924	15,102
	BUG Rating	B1-U4-G4	B2-U5-G5	B2-U5-G5	B2-U5-G5

COOPER Lighting Solutions

Lumark
AXCS / AXCL Axcent

Energy and Performance Data

Power and Lumens (Small + CBP)

Light Engine		AXCS1A	AXCS2A	AXCS3A	AXCS4A
Power (Watts)		18	25	31	48
Input Current @ 120V (A)		0.15	0.21	0.26	0.40
Input Current @ 240V (A)		0.08	0.11	0.13	0.20
Input Current @ 277V (A)		0.07	0.09	0.11	0.18
Configuration					
Full Cutoff	4000K/5000K Lumens	629	587	647	570
	3000K Lumens	531	496	547	482
Refractive Lens	4000K/5000K Lumens	667	623	686	605
	3000K Lumens	563	526	580	511

Note: Power and current based on full power consumption while CBP is charging. Lumen outputs are while operating in emergency mode only.

Power and Lumens (Large + CBP)

Light Engine		AXCL6A	AXCL8A	AXCL10A
Power (Watts)		60	76	106
Input Current @ 120V (A)		0.50	0.63	0.88
Input Current @ 240V (A)		0.25	0.32	0.44
Input Current @ 277V (A)		0.22	0.27	0.38
Configuration				
Full Cutoff	4000K/5000K Lumens		1,070	
	3000K Lumens		945	
Refractive Lens	4000K/5000K Lumens		1,098	
	3000K Lumens		973	

Note: Power and current based on full power consumption while CBP is charging. Lumen outputs are while operating in emergency mode only.

Power and Lumens Multipliers
(Lumen Select Back Box + Axcent Small)

Configuration		~75% Nominal Output	~50% Nominal Output
Catalog Number	**Material Number**	**Connect per Installation Instructions**	
AXCS1A*	13109741 or 13109939 or Other	74%	50%
AXCS2A*	13109698 or 13109938 or Other	74%	50%
AXCS3A*	13109697 or 13109937 or Other	74%	50%
AXCS4A*	13109695 or 13109936	75%	40%
AXCS4A*	13495299 or 13495470 or Other	72%	50%
AXCS5A*	13109652 or 13109935	75%	40%
AXCS5A*	13495471 or 13495472 or Other	72%	50%

Power and Lumens Multipliers
(Lumen Select Back Box + Axcent Large)

Configuration		~75% Nominal Output	~50% Nominal Output
Catalog Number	**Material Number**	**Connect per Installation Instructions**	
AXCL6A*	12963843 or 12964235	75%	40%
AXCL6A*	13495473 or 13495474 or Other	69%	47%
AXCL8A*	12963842 or 12964234	84%	48%
AXCL8A*	13495475 or 13495476 or Other	69%	47%
AXCL10A*	12963840 or 12964233	84%	48%
AXCL10A*	13495477 or 13495478 or Other	69%	47%
AXCL12A*	12902056 or 12902057	85%	50%
AXCL12A*	13495479 or 13495480 or Other	72%	49%

Lumen Maintenance (Axcent Small)

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (72,000 Hours)
Up to 3A		
25°C	90%	246,000
40°C	90%	225,000
50°C	89%	195,000
Up to 5A		
25°C	89%	240,000
40°C	88%	223,000
50°C	87%	186,000

Lumen Maintenance (Axcent Large)

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (72,000 Hours)
Up to 8A		
25°C	94%	556,000
40°C	94%	556,000
50°C	92%	340,000
Up to 10A		
25°C	94%	556,000
40°C	94%	478,000
50°C	87%	207,000
Up to 12A		
25°C	94%	151,000
40°C	81%	125,000

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.97

COOPER
Lighting Solutions

Lumark | AXCS / AXCL Axcent

Control Options

0-10V This fixture is offered standard with 0-10V dimming driver(s) for use with a lighting control panel or other control method.

Photocontrol (PC1, PC2 and PC) Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

After Hours Dim (AHD) This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (MSP/DIM-LXX and MSP-LXX) These sensors are factory installed in the luminaire housing. When the MSP/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MSP/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of ten minutes. The MSP-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity.

These occupancy sensors includes an integrated photocell that can be activated with the ISHH-01 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is ON. The ISHH-01 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-30'.
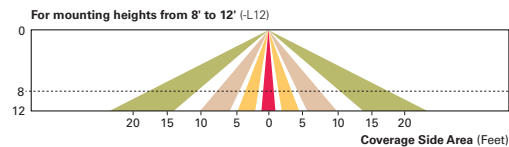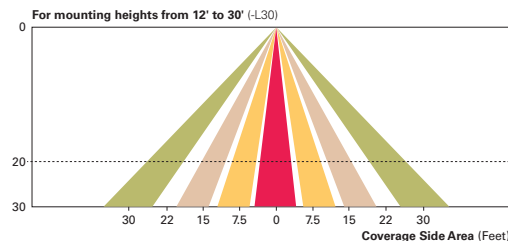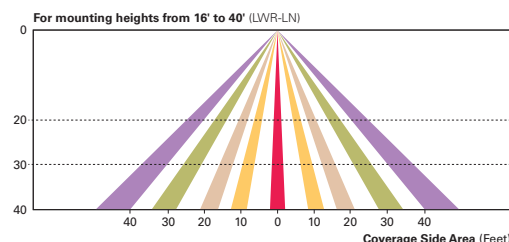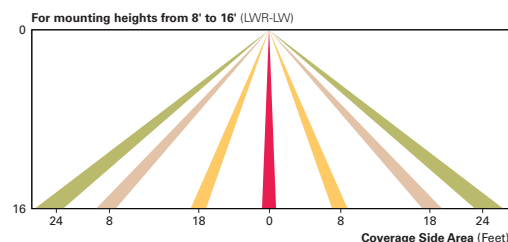

WaveLinx Wireless Control and Monitoring System The WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinx Mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinx Wireless Sensor (SWPD4 and SWPD5) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.
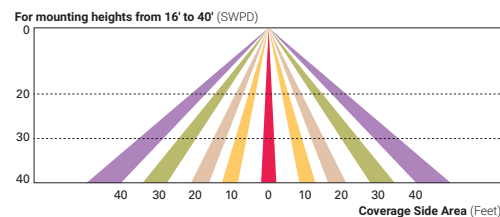
Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Enlighted System is a connected lighting solution that combines LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of other resources beyond lighting.

Description:	See Highlighted Below	TYPE

Project Name:

CASA RAMOS

TYPE S

MWL
515-231-3928
Cameron Lewis

HALO OUTDOOR™

DESCRIPTION

The HALO entry light provides dependable security lighting with nighttime ON and daytime OFF funtionality. Suitable for mounting heights up to 10ft, these fixtures are ideal for residential applications such as entrances, patios and walkways. Produces light output equivalent to 75W incandescent, available in white or bronze finish.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
- Corrosion resistant polycarbonate housing
- UV stable frosted polycarbonate lens
- Available in bronze or white finish
- Suitable for recessed junction boxes

Electrical
- Maintenance-free LEDs with 25,000 hours of life
- Fixture operating temperature range from -30°C to 40°C
- Integral photo control included
- Electrical operating voltage 120VAC 60Hz
- cULus listed for wet locations
- External supply wiring 75°C minimum

Optics
- Diffused lens
- 5000K CCT

Warranty
5 year limited warranty

**FE0650
LED ENTRY
LIGHT**

DIMENSIONS

FE0650LPC

Front View — 6.8 in. [173mm], 4.5 in. [115mm]

Side View — 6.8 in. [173mm], 5.4 in. [138mm]
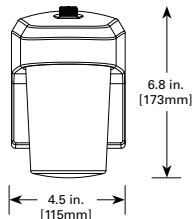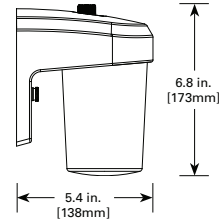
ORDERING INFORMATION

Model	Finish
FE0650LPC	Bronze
FE0650LPCW	White

CERTIFICATION DATA
cULus Wet Location Listed

TECHNICAL DATA
-30°C to 40°C Temperature Rating
External Supply Wiring 75° Minimum
Wall and Pole Mount

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770.486.4800
www.cooperlighting.com

Specifications and dimensions subject to change without notice.

COOPER Lighting Solutions

PS502091EN
January 14, 2019

Midwest Lighting Inc. - Cameron Lewis 515-231-3928

IOWA / ARIZONA

515-231-3928
Cameron Lewis

L E D A R E A A N D W A L L L I G H T

PHOTOMETRICS
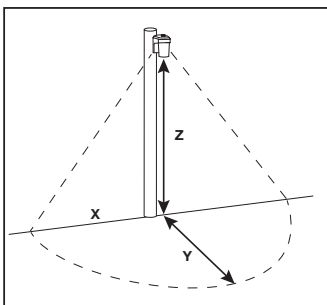
0.25 Fc Coverage Area					
Mounting Height	8		10		15
Catalog Number	X	Y	X	Y	X	Y
FE0650 Series	13	24	13	24	8.5	17

X = Forward Throw
Y = Wall Spread
Z = Mounting Heights

Technical Information

		Voltage (V)	Power (W)	Delivered Lumens	Efficacy (Lum/Watt)	LED Color Temperature (K)	CRI
FE0650 Series	Bronze	120	9	811	91	5000	83
	White	120	9	927	104	5000	83

Specifications and
dimensions subject to
change without notice.

PS502091EN
January 14, 2019

COOPER
Lighting Solutions

Description:	See Highlighted Below	**TYPE**
Project Name: **CASA RAMOS**		**T**

MWL
515-231-3928
Cameron Lewis

Lumark

DESCRIPTION

The patented Lumark Crosstour™ LED Wall Pack Series of luminaries provides an architectural style with super bright, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crosstour impervious to contaminants. The Crosstour wall luminaire is ideal for wall/surface, inverted mount for façade/canopy illumination, post/bollard, site lighting, floodlight and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, stairways and loading docks test.

Catalog #		**Type**
Project		
Comments		**Date**
Prepared by		

SPECIFICATION FEATURES

Construction
Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and medium design. The small housing is available in 12W, 18W and 26W. The medium housing is available in the 38W model. Patented secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three half-inch, NPT threaded conduit entry points. The universal back box supports both the small and medium forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application. Not recommended for car wash applications.

Optical
Silicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Available in seven lumen packages; 5000K, 4000K and 3000K CCT.

Electrical
LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 12W, 18W, 26W and 38W series operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 89% of initial light output after 72,000 hours of operation. Three half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz or 347V 60Hz models.

Finish
Crosstour is protected with a Super durable TGIC carbon bronze or summit white polyester powder coat paint. Super durable TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty
Five-year warranty.

XTOR
CROSSTOUR LED

APPLICATIONS:
WALL / SURFACE
POST / BOLLARD
LOW LEVEL
FLOODLIGHT
INVERTED
SITE LIGHTING
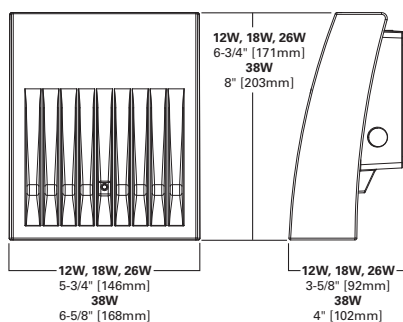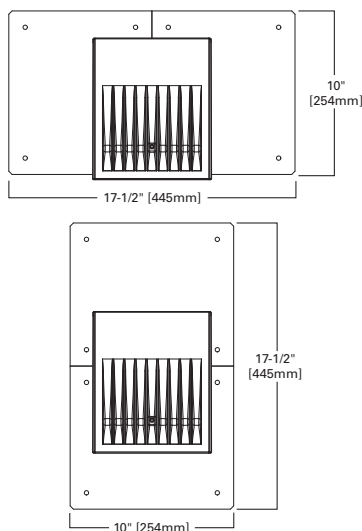
CERTIFICATION DATA
Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only)
UL/cUL Wet Location Listed
LM79 / LM80 Compliant
ROHS Compliant
ADA Compliant
NOM Compliant Models
IP66 Ingressed Protection Rated
Title 24 Compliant
DesignLights Consortium® Qualified*

TECHNICAL DATA
40°C Maximum Ambient Temperature
External Supply Wiring 90°C Minimum

EPA
Effective Projected Area (Sq. Ft.):
XTOR1B, XT0R2B, XT0R3B=0.34
XTOR4B=0.45

SHIPPING DATA:
Approximate Net Weight:
3.7 – 5.25 lbs. [1.7 – 2.4 kgs.]

DIMENSIONS

12W, 18W, 26W
6-3/4" [171mm]
38W
8" [203mm]

12W, 18W, 26W
5-3/4" [146mm]
38W
6-5/8" [168mm]

12W, 18W, 26W
3-5/8" [92mm]
38W
4" [102mm]

ESCUTCHEON PLATES

10" [254mm]

17-1/2" [445mm]

17-1/2" [445mm]

10" [254mm]

COOPER
Lighting Solutions

*www.designlights.org

TD514013EN
March 12, 2020 9:33 AM

Description: See Highlighted Below

Project Name:

CASA RAMOS

TYPE

T

XTOR CROSSTOUR LED

POWER AND LUMENS BY FIXTURE MODEL

| LED Information	XTOR1B	XTOR1B-W	XTOR1B-Y	XTOR2B	XTOR2B-W	XTOR2B-Y	XTOR3B	XTOR3B-W	XTOR3B-Y	XTOR4B	XTOR4B-W	XTOR4B-Y
Delivered Lumens (Wall Mount)	1,418	1,396	1,327	2,135	2,103	1,997	2,751	2,710	2,575	4,269	4,205	3,995
Delivered Lumens (With Flood Accessory Kit) [1]	1,005	990	940	1,495	1,472	1,399	2,099	2,068	1,965	3,168	3,121	2,965
B.U.G. Rating [2]	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0
CCT (Kelvin)	5,000	4,000	3,000	5,000	4,000	3,000	5,000	4,000	3,000	5,000	4,000	3,000
CRI (Color Rendering Index)	70	70	70	70	70	70	70	70	70	70	70	70
Power Consumption (Watts)	12W	12W	12W	18W	18W	18W	26W	26W	26W	38W	38W	38W

NOTES: **1** Includes shield and visor. **2** B.U.G. Rating does not apply to floodlighting.

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
XTOR1B Model		
25°C	> 90%	255,000
40°C	> 89%	234,000
50°C	> 88%	215,000
XTOR2B Model		
25°C	> 89%	240,000
40°C	> 88%	212,000
50°C	> 87%	196,000
XTOR3B Model		
25°C	> 89%	240,000
40°C	> 88%	212,000
50°C	> 87%	196,000
XTOR4B Model		
25°C	> 89%	222,000
40°C	> 87%	198,000
50°C	> 87%	184,000
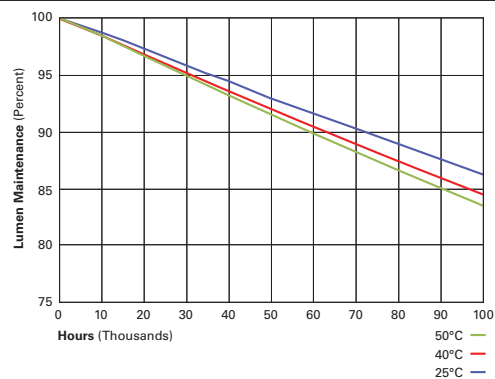
CURRENT DRAW

Voltage	Model Series			
	XTOR1B	XTOR2B	XTOR3B	XTOR4B
120V	0.103A	0.15A	0.22A	0.34A
208V	0.060A	0.09A	0.13A	0.17A
240V	0.053A	0.08A	0.11A	0.17A
277V	0.048A	0.07A	0.10A	0.15A
347V	0.039A	0.06A	0.082A	0.12A

Description: See Highlighted Below

Project Name:

CASA RAMOS

TYPE

T

page 3

XTOR CROSSTOUR LED

ORDERING INFORMATION

Sample Number: XTOR2B-W-WT-PC1

Series [1]	LED Kelvin Color	Housing Color	Options (Add as Suffix)	Accessories (Order Separately)
XTOR1B=Small Door, 12W **XTOR2B**=Small Door, 18W **XTOR3B**=Small Door, 26W **XTOR4B**=Medium Door, 38W	**[Blank]**=Bright White (Standard), 5000K **W**=Neutral White, 4000K **Y=Warm White, 3000K**	**[Blank]**=Carbon Bronze (Standard) **WT**=Summit White **BK**=Black **BZ**=Bronze **AP**=Grey **GM**=Graphite Metallic **DP**=Dark Platinum	**PC1**=Photocontrol 120V [2] **PC2**=Photocontrol 208-277V [2,3] **347V**=347V [4] **HA**=50°C High Ambient [4]	**WG/XTOR**=Wire Guard [5] **XTORFLD-KNC**=Knuckle Floodlight Kit [6] **XTORFLD-TRN**=Trunnion Floodlight Kit [6] **XTORFLD-KNC-WT**=Knuckle Floodlight Kit, Summit White [6] **XTORFLD-TRN-WT**=Trunnion Floodlight Kit, Summit White [6] **EWP/XTOR**=Escutcheon Wall Plate, Carbon Bronze **EWP/XTOR-WT**=Escutcheon Wall Plate, Summit White

NOTES:

1. DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
2. Photocontrols are factory installed.
3. Order PC2 for 347V models.
4. Thru-branch wiring not available with HA option or with 347V. XTOR3B not available with HA and 347V or 120V combination.
5. Wire guard for wall/surface mount. Not for use with floodlight kit accessory.
6. Floodlight kit accessory supplied with knuckle (KNC) or trunnion (TRN) base, small and large top visors and small and large impact shields.

STOCK ORDERING INFORMATION

12W Series	18W Series	26W Series	38W Series
XTOR1B=12W, 5000K, Carbon Bronze	**XTOR2B**=18W, 5000K, Carbon Bronze	**XTOR3B**=26W, 5000K, Carbon Bronze	**XTOR4B**=38W, 5000K, Carbon Bronze
XTOR1B-WT=12W, 5000K, Summit White	**XTOR2B-W**=18W, 4000K, Carbon Bronze	**XTOR3B-W**=26W, 4000K, Carbon Bronze	**XTOR4B-W**=38W, 4000K, Carbon Bronze
XTOR1B-PC1=12W, 5000K, 120V PC, Carbon Bronze	**XTOR2B-WT**=18W, 5000K, Summit White	**XTOR3B-WT**=26W, 5000K, Summit White	**XTOR4B-WT**=38W, 5000K, Summit White
XTOR1B-W=12W, 4000K, Carbon Bronze	**XTOR2B-PC1**=18W, 5000K, 120V PC, Carbon Bronze	**XTOR3B-PC1**=26W, 5000K, 120V PC, Carbon Bronze	**XTOR4B-PC1**=38W, 5000K, 120V PC, Carbon Bronze
	XTOR2B-W-PC1=18W, 4000K, 120V PC, Carbon Bronze	**XTOR3B-W-PC1**=26W, 4000K, 120V PC, Carbon Bronze	**XTOR4B-W-PC1**=38W, 4000K, 120V PC, Carbon Bronze
	XTOR2B-347V=18W, 5000K, Carbon Bronze, 347V	**XTOR3B-347V**=26W, 5000K, Carbon Bronze, 347V	**XTOR4B-347V**=38W, 5000K, Carbon Bronze, 347V
	XTOR2B-WT-PC1=18W, 5000K, 120V PC, Summit White	**XTOR3B-PC2**=26W, 5000K, 208-277V PC, Carbon Bronze	

MWL
515-231-3928
Cameron Lewis

Description: See Highlighted Below

Project Name:
CASA RAMOS

TYPE
A

Portfolio

DESCRIPTION

Low brightness round 2-3/4" aperture, LED adjustable accent/slope for flat or sloped ceilings. 365° rotation and 45° tilt mechanism allows LED optic to pivot about the center of the aperture at the ceiling line, allowing maximum light output without flashback. Available with 15°, 25°, 40°, 55° optic producing a smooth distribution. Offered with adjustable accent, pinhole, and lensed wall wash trims. Lumen packages ranging from 500 to 2000 with color temperatures of 2400K, 2700K, 3000K, 3500K, 4000K and 5000K, in 80, 90 or 97CRI. Dim to warm technology – similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space. Tunable white technology - adjust the color temperature from warm white to cool white while independently controlling intensity.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Lower Reflector
Painted die cast aluminum or anodized aluminum lower reflector providing superior lumen output with minimal source brightness. Flat cut cone allows for full output and tilt rang. Pinhole includes black oculus to control glare. Anodized reflectors are offered in all Portfolio Alzak® finishes. Plaster lathing ring accessory offered for flush reflector transition.

Trim Retention
Reflector is retained with pressure springs holding the flange tight to the finished ceiling surface.

Housing
Steel housing and collar painted matte black to eliminate stray light. Housing is top accessible. Collar adjusts vertically to accommodate 1/2" to 7/8" thick ceilings and locks in position with (4) screws. Extend depth color accessory for 7/8" to 1.25" ceiling thickness. Integral gun sights facilitate the use of guide strings or laser lines. Shipped with overspray protector installed.

Adjustment Mechanism
Mechanism allows smooth 365° rotation and lockable 45° tilt adjustment and locks in position with 1/4" Phillips hex driver. Aiming scale enables consistent setting across multiple fixtures.

Optic
Interchangeable optic in 15°, 25°, 40, 55° provides smooth beam without color separation. Media holder fits onto optic holder and holds up to two lens media.

Universal Mounting Bracket
Accepts 1/2" EMT, C Channel, Tbar fasteners and hanger bars.

Junction Box
(4) 1/2" trade size pry outs positioned to allow straight conduit runs. Listed for (4) #12AWG (two in, two out) 90°C conductors and feed thru branch wiring for top access units (with top access units only). Lever connectors for simple push in wiring.

Thermal
Forged aluminum heat sink conducts heat away from the LED COB for optimal performance and long life.

LED
Chip on board with a multitude of highly efficient white LED's, combined with TIR optic produces an even distribution with no pixilation. Lumen output shall not decrease by more than 10% over the minimum life of 55,000 hours (L90 > 55,000 hours). Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 3-step MacAdam ellipses. Available in 80, 90 or 97 CRI. D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.

Driver
Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1%. Optional 120V leading edge, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem (standard 0-10V driver and 0-10V/ leading edge can be serviced from above or through the aperture others require above ceiling access).

Connected Lighting Systems
Factory installed WaveLinx tile mount sensor kit and Field installed WaveLinx accessory tile mount sensor kit.

The WTA WaveLinx tile mount sensor kit offers daylight dimming, PIR motion sensing control, and optional RLTS - Real Time Location Services available. (Refer to WaveLinx system specifications and application guides for details)
The WTA WaveLinx kit includes control module that mounts on the luminaire electrical junction box via 1/2" knock-out, and tilemount sensor with direct-mount spring clips or for octagon ceiling box with included mounting bracket. (Field mount kit ordered and installed separately).

Enlighted wireless tile mount sensor and relay accessory enables wireless control using a tile mount sensor accessory.

Distributed low voltage power system combines power, lighting, and controls with ease of installation.

Code Compliance
Thermally protected and cULus listed for protected damp locations with open trims and wet location with lensed trims. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. IC-rated and air tight with lensed trims, RoHS Compliant. Photometric testing completed in accordance with IES LM 79. Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11.

Warranty
5 year warranty

LDA2B 2LB

500, 1000, 1500, 2000 Lumens
LED

2-Inch
Round Adjustable
New Construction

D2W™

ENERGY

ENERGY DATA
Sound Rating: Class A standards
(Values at non-dimming line voltage)
Minimum Starting Temperature: -30°C (-22°F)
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)
Input Voltage: UNV (120V - 277V)
Power Factor: >0.90 (at nominal input 120-277 VAC & 100% of Rated Output Power)
Input Frequency: 50/60Hz

500 Lumen D010		1000 Lumen D010	
Input Power: 7.4W	THD: <14.4%	Input Power: 11W	THD: <13.8%
120V Input Current: 0.06A	277V Input Current: 0.03A	120V Input Current: 0.086A	277V Input Current: 0.042A

1500 Lumen D010		2000 Lumen D010	
Input Power: 15.1W	THD: <13.0%	Input Power: 21.2W	THD: <8.6%
120V Input Current: 0.13A	277V Input Current: 0.06A	120V Input Current: 0.18A	277V Input Current: 0.081A

	120V		277V	
Lumens	Inrush (A)	Duration (ms)	Inrush (A)	Duration (ms)
500 Lumen D010	0.64	0.05	1.4	0.04
1000 Lumen D010	1.02	0.041	2.18	0.021
1500 Lumen D010	1.02	1.02	2.24	0.064
2000 Lumen D010	1.02	0.077	2.43	0.027

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ORDERING INFORMATION

SAMPLE NUMBER: LDA2B159030D010

Housing	Lumens[1]	Distribution	CRI	Color			Voltage
LDA2B=New Construction Adjustable 2" Nominal Aperture	**05**=500 lumens[13]	**SP**=15° optic	80=80 CRI minimum	**80 CRI**	**90 CRI**	**97 CRI**	**Blank**=120-277V
LDA2BCP=New Construction Adjustable 2" Nominal Aperture Chicago Plenum[11]	**10**=1000 lumens	**NFL**=25° optic	**90**=90 CRI minimum	**27**=2700K	**24**=2400K	**27**=2700K	**3**=347V 0-10V only 1000-2000 lumens
	15=1500 lumens	**FL**=40° optic	97=97 CRI minimum	30=3000K	**27**=2700K	30=3000K	
	20=2000 lumens	**WFL**=55° optic		35=3500K	**30**=3000K		
		Blank=no optic (order accessory reflector)		40=4000K	35=3500K		
				50=5000K	40=4000K		
					50=5000K		

Dim to Warm (1000 & 1500 lumens only)
9030D2W=Dim to warm, 90CRI
Tunable White (1000 lumens only)
W2N902050 = 2000K-5000K
W2N902765 = 2700K-6500K
Choose 5LT or DE010 driver

Driver	Options[10,2]
D010=0-10V Dimming 1%-100%, 120-277V	**EMBOD**=Bodine® Emergency Module with Remote Test Switch
D010A=0-10V Dimming 1%-100%, 120-277V for installations with above ceiling access[10]	**EMBOD7ST**=Bodine® Emergency Module with Self Test Remote Test Switch
D010TR=0-10V 120-277V Dimming 1%-100%, or 120V 5% line voltage dimming	**EM7**=7W Emergency Module with Remote Test Switch
D010ATR=0-10V 120-277V Dimming 1%-100%, or 120V 5% line voltage dimming for installations with above ceiling access[10]	**EM14**=14W Emergency Module with Remote Test Switch (not for use with DLVP driver)
DE010=0-10V Linear Dimming, 0% to 100%, 120-277V[10]	**EMV7**=7W Low Voltage Emergency Module with Remote Test Switch (for use with DLVP driver)[8]
D5LT=Fifth Light® (DALI) Logarithmic Dimming, 0% to 100%, 120-277V[10]	**EMV14**=14W Low Voltage Emergency Module with Remote Test Switch (for use with DLVP driver)[8]
DMX=DMX/RDM Logarithmic Dimming, 0% to 100%, 120-277V[10, 6]	**WTA**=Factory installed WaveLinx Sensor Kit (WTA = WaveLinx wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only)[9]
DMXC5=DMX/RDM Logarithmic Dimming, 0% to 100%, 120-277V, with RJ45 connection[10,6]	
DL2=Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only[10]	**LWTPD1**=Factory installed Enlighted wireless sensor kit[9]
DLE=Lutron Ecosystem dimming 1% to 100%, 120-277V[10]	
DLV=Low voltage dimming driver 1-100% for use with DLVP system[10]	

SAMPLE NUMBER: 2LBAC3LI

Trim	Reflector	Flange	Finish
2LB=2" trim	**D**=Spun aluminum	**1**=Self-flanged	**LI**=Specular Clear[5]
	SW=Spun aluminum splay lensed wall wash with black oculus[7]	**2**=White Painted Self-flanged	**H**=Semi-Specular Clear[5]
	SWW=Spun aluminum splay lensed wall wash with white oculus[7]	**3**=Rimless[12]	**WMH**=Warm Haze[5]
	DL=Lensed spun aluminum	**Blank**=Pinhole	**WH**=Wheat[5]
	DC=Die cast aluminum[3]		**WHH**=Wheat Haze[5]
	DLC=Lensed die cast aluminum[3]		**GPH**=Graphite Haze[5]
	PIN=Pinhole with black oculus[3]		**B**=Specular Black[5]
	PINW=Pinhole with white oculus[3]		**MW**=Matte White
			MB=Matte Black[4]
			MMS=Matte Metallic Silver[4]

Accessories

2RAPR=Round plaster lathing ring (order with rimless option)
Bar Hangers
HB26=Pair C-channel bar hanger, 26" long
HB50=Pair C-channel bar hanger, 50" long
RMB22=Pair wood joist bar hanger 22" long
Connected Lighting Systems
PORLWTPD1=***Enlighted wireless sensor kit
WTA=WaveLinx wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only (Refer to WaveLinx system specifications and guides for details) Field installed.[9]

Beam Forming Reflector (required when ordering no optic for distribution)
2R15SP=15°
2R25NFL=25°
2R40FL=40°
2R55WFL=55°
EDC2SQ=Ceiling extension kit for ceilings 7/8" - 1-1/4"

L100 lenses - color filters
L112=Red Gel Filter
L114=Ultraviolet, Dichoric Filter
L120=Red, Dichoric Filter
L121=Amber, Dichoric Filter
L122=Yellow, Dichoric Filter
L123=Green, Dichoric Filter
L124=Daylight Blue, Dichoric Filter
L125=Blue, Dichoric Filter
L127=Cosmetic (2700K), Dichoric Filter
L131=Amber, Gel Filter

L100 lenses - optical lenses
L110N=Diffuse Sandblasted Lens: Provides an even beam spread - especially useful in wall washing.
L111=Soft Focus Lens: Smooths irregular beam pattern while maintaining high controlled illumination levels and beam angles.
L113=Prismatic Spread Lens: Provides a symmetrical broadening of lamp beam. Suitable when a wide, uniform light distribution is required.
L115=Linear Spread Lens: Fans out the beam 55° (27-1/2° to each side) to produce a wide rectangular pattern.
L100MB=Black finished metal hexagonal-cell louver - controls light spill while retaining lamp optics.

Notes:
1 Nominal Lumens will vary depending on selected color, driver and reflector finish.
2 Not available with Chicago Plenum.
3 Only available with Matte White, Matte metallic silver and Matte Black Finishes.
4 Available only on DC.
5 Not available on Pinhole or DC distributions.
6 DMX fixtures default to full on upon loss of DMX signal.
7 Housing ships standard at 15° tilt for optimal wall wash position.
8 UL US approved only.
9 Refer to system specifications for additional information, features and benefits. Order either factory installed option or accessory, use with 0-10V driver.
10 Requires above ceiling access.
11 Must be used with lensed reflector.
12 Available on D, DL, DLC and DC.
12 Limited to D010, D010A and DLVP drivers.

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TD520094EN **page 2**
July 22, 2020 2:51 PM

CASA RAMOS

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DIMENSIONS

14-1/4" [362.6mm]

15-1/16" [382.1mm]

5-15/16" [150.2mm]

2-13/16" [71.6mm]

3-1/8" [79.4mm]

3-7/8" [98.4mm]

PHOTOMETRY

FLOOD

Test Number	G2-1811-033-3
Housing	LDA2B108035D010
Module	EU2B10FL408035
Trim	2LBD1H
Lumens	1177
Efficacy	117.7 Lm/W
SC	0.61

CANDLEPOWER DISTRIBUTION

Downlight

819 / 1638 / 2457 / 3276

90° 75° 60° 45° 30° 15°

CONE OF LIGHT

Downlight 0°

D	FC	L	W
4'	205	2.4	2.4
7'	66.9	4.2	4.2
9'	40.5	5.4	5.4
13'	19.4	7.8	7.8
16'	12.8	9.6	9.6

CANDELA TABLE

Degrees Vertical	Candela
0	3280
5	3198
15	2208
25	456
35	57
45	11
55	3
65	0
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1124	95.5
0-40	1164	98.9
0-60	1176	99.9
0-90	1177	100
90-180	0	0
0-180	1177	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	7536
55	2322
65	584
75	0
85	0

NARROW FLOOD

Test Number	G2-1811-033-2
Housing	LDA2B108035D010
Module	EU2B10NFL258035
Trim	2LBD1H
Lumens	1145
Efficacy	114.5 Lm/W
SC	0.39

CANDLEPOWER DISTRIBUTION

Downlight

1485 / 2969 / 4454 / 5939

90° 75° 60° 45° 30° 15°

CONE OF LIGHT

Downlight 0°

D	FC	L	W
4'	371.4	1.4	1.4
7'	121.3	2.6	2.6
9'	73.4	3.4	3.4
13'	35.2	5	5
16'	23.2	6.2	6.2

CANDELA TABLE

Degrees Vertical	Candela
0	5943
5	5460
15	1759
25	277
35	43
45	9
55	2
65	0
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1104	96.4
0-40	1135	99.1
0-60	1144	99.9
0-90	1145	100
90-180	0	0
0-180	1145	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	6001
55	1892
65	584
75	0
85	0

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PHOTOMETRY

SPOT

Test Number	G2-1811-033-1
Housing	LDA2B108035D010
Module	EU2B10SP158035
Trim	2LBD1H
Lumens	1093
Efficacy	109.3 Lm/W
SC	0.28

CANDLEPOWER DISTRIBUTION

Downlight

2502 / 5004 / 7507 / 10009

CONE OF LIGHT

D	FC	L	W
4'	625.8	1	1
7'	204.3	1.8	1.8
9'	123.6	2.4	2.4
13'	59.2	3.6	3.6
16'	39.1	4.4	4.4

CANDELA TABLE

Degrees Vertical	Candela
0	10013
5	7952
15	1157
25	201
35	34
45	6
55	2
65	0
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1061	97.1
0-40	1085	99.2
0-60	1093	99.9
0-90	1093	100
90-180	0	0
0-180	1093	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	4117
55	1892
65	584
75	0
85	0

WIDE FLOOD

Test Number	G2-1811-033-5
Housing	LDA2B108035D010
Module	EU2B10WFL558035
Trim	2LBD1H
Lumens	1165
Efficacy	116.5 Lm/W
SC	0.74

CANDLEPOWER DISTRIBUTION

Downlight

503 / 1006 / 1509 / 2013

CONE OF LIGHT

D	FC	L	W
4'	126	2.8	2.8
7'	41.2	5.2	5.2
9'	24.9	6.6	6.6
13'	11.9	9.6	9.6
16'	7.9	11.8	11.8

CANDELA TABLE

Degrees Vertical	Candela
0	2017
5	1968
15	1549
25	920
35	168
45	23
55	4
65	0
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1016	87.2
0-40	1140	97.9
0-60	1164	99.9
0-90	1165	100
90-180	0	0
0-180	1165	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	15839
55	3699
65	584
75	0
85	0

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