

# C2AR-L

## LED ECONOMIC RECESSED CENTER BASKET

### 1'X4', 2'X2', 2'X4'

### OPTIONAL EMERGENCY REMOTE



The LED economic center basket features a classic design at an affordable price. This 1'x4', 2'x2' and 2'x4' center basket provides specification grade, smooth and uniform ambient lighting. This energy efficient center basket has a long life for optimal performance, and is ideal for all commercial and industrial buildings.

## FEATURES AND SPECIFICATIONS

### CONSTRUCTION

#### Housing

Housing is die-formed and embossed with hemmed side flanges. Luminaire body finish is high reflectance baked white enamel with matte white reflector.

#### Mounting options

Recessed inverted T-Bar ceilings. Grid mount. Comes complete with integrated earthquake clips.

#### Lens

Opal linear lens diffuser.

### ELECTRICAL

- 120-277 V or 347 V electronic driver with 0-10 V dimming is standard. 347 V step down available as an accessory.
- Long-life LEDs that provide 80+ CRI are available in 3 000, 3 500, 4 000 and 5 000 K. Over 87% lumen maintenance expected at 50 000 hours and over 91% lumen maintenance expected at 36 000 hours

### OPTIONAL EMERGENCY LIGHTING

#### BRIDGE Normally ON emergency remote LED recessed center basket

- Consuming 11 W, 12 - 24 V DC
- 200 mA constant current
- Delivers 1 255 - 1 439 lumens in emergency mode
- Ease of maintenance when used with AimLite emergency lighting battery units complete with auto test function
- Complements AimLite's normally ON LED recessed center basket family.
- Patent Pending

Please view the BRIDGE specification section for more details on this technology

### EMERGENCY LIGHTING COMPLIANCES

- CSA certified as a C22.2 C141-15 emergency lighting luminaire
- Meets ICES-005 requirements

### COMPLIANCES

- Meets requirements of ICES-005
- cULus
- CSA C22.2 #250.0

OVERVIEW			
LIGHT SOURCE	LED	COLOR TEMPERATURE (K)	3 000, 3 500, 4 000, 5 000
WATTS (W)	26 - 60	CRI	80+
LUMEN OUTPUT (LM)	4 375 - 7 607	WEIGHT (LBS)	11 - 18
EFFICACY (LM/W)	114 - 131		

Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at [www.designlights.org/search](http://www.designlights.org/search).

\* 5 year warranty for the BRIDGE module.

## QUICK SHIP<sup>1</sup> ORDERING GUIDE



PART NO	DLC UNIQUE ID	WATTS [W]	VOLTS [VAC]	COLOR TEMP. [K] <sup>2</sup>	LUMEN OUTPUT [LM] <sup>3</sup>	EFFICACY [LM/W]	CRI	LIFE L70 [H] <sup>4</sup>	LM-80 [H] <sup>4</sup>	DIMMING [YES/NO]	PF	THD [%]
<b>1'X4'</b>												
C2AR-1	PLATSPBVQI72	33	120-277	3 500	4 294	128	80+	120 000	6 000	YES	0.96	4
C2AR-2	PLQ1WX81VL2E	35	120-277	4 000	4 515	129	80+	120 000	6 000	YES	0.90	10
<b>2'X2'</b>												
C2AR-3	PL469RX3IFK8	35	120-277	3 500	4 243	121	80+	120 000	6 000	YES	0.97	9
C2AR-4	PLRH18UA6DEI	35	120-277	4 000	4 410	126	80+	120 000	6 000	YES	0.90	10
<b>2'X4'</b>												
C2AR-5	PLWM9R1G094Y	33	120-277	3 500	4 119	125	80+	120 000	6 000	YES	0.94	5
C2AR-6	PLQBGUWUWU9	34	120-277	4 000	4 284	126	80+	120 000	6 000	YES	0.90	10

<sup>1</sup> QUICK SHIP: Product availability is subject to change without notice. Please contact your AimLite customer service representative to confirm inventory levels at time of order.

<sup>2</sup> Typical color temperature range: +/- 5 %.

<sup>3</sup> Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.

<sup>4</sup> Life hours are derived from IESNA LM-80-08 testing report and projected per IESNA TM-21-11 extrapolations.

<sup>5</sup> All configurations are available with emergency backup /DL.

## ORDERING GUIDE

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SERIES	DIMENSION	LAMP TYPE	LUMEN PACKAGE DELIVERED [LM] <sup>1</sup>	CRI	VOLTS [V]	COLOR TEMP. [K]	OPTIONS
C2AR	1 - 1' X 4' 2 - 2' X 2' 4 - 2' X 4'	L - LED	A1 A2 A3 A4	80 - 80+	4- 120 2- 120-277 8- 347	30K - 3 000 35K - 3 500 40K - 4 000 50K - 5 000	DIM2 - Line voltage dimming <sup>2</sup> DALI - Digital addressable lighting interface driver <sup>3</sup> OS - Occupancy sensor <sup>4</sup> DL - Emergency backup <sup>5</sup> EL - BRIDGE Normally ON emergency remote <sup>6</sup>

<sup>1</sup> Refer to the technical specification table for more details

<sup>2</sup> Available in 120 V only

<sup>3</sup> Available in 120 - 277 V only

<sup>4</sup> To see available options please consult the occupancy sensors section

<sup>5</sup> Not available on 347 V

<sup>6</sup> When in emergency mode, luminaire only consumes 11 W.

**For emergency lighting spacing, please see page 7.**

## TECHNICAL SPECIFICATION TABLE

LUMEN PACKAGE	WATTS	VOLTS	3 000 K		3 500 K		4 000 K		5 000 K		CRI	LIFE L70	TESTED HOURS LM-80 [HRS]
			LUMEN	EFFICACY	LUMEN	EFFICACY	LUMEN	EFFICACY	LUMEN	EFFICACY			
	[W]	[V]	[LM]	[LM/W]	[LM]	[LM/W]	[LM]	[LM/W]	[LM]	[LM/W]		[HRS]	
1'X4'													
2LA1	26	120 120-277 347	3 271	126	3 271	126	3 307	127	3 340	128	+80	201 000	10 000
2LA2	37		4 645	126	4 645	126	4 696	127	4 742	128	+80	201 000	10 000
2'X2'													
2LA1	25	120 120-277 347	3 150	126	3 150	126	3 185	127	3 216	129	+80	201 000	10 000
2LA2	33		3 764	114	3 764	114	3 806	115	3 843	116	+80	201 000	10 000
2LA3	35		4 423	126	4 423	126	4 471	128	4 515	129	+80	201 000	10 000
2'X4'													
4LA1	35	120 120-277 347	4 445	127	4 445	127	4 494	128	4 539	130	+80	201 000	10 000
4LA2	38		4 828	127	4 828	127	4 881	128	4 929	130	+80	201 000	10 000
4LA3	45		5 766	128	5 766	128	5 829	130	5 887	131	+80	201 000	10 000
4LA4	60		7 450	124	7 450	124	7 532	126	7 607	127	+80	201 000	10 000

## BRIDGE TECHNICAL SPECIFICATION TABLE

LUMEN PACKAGE	BRIDGE WATTS [W] <sup>1</sup>	VOLTS [V]	BRIDGE LUMEN OUTPUT [LM] <sup>2</sup>			
			3 000 K	3 500 K	4 000 K	5 000 K
1'X4'						
1LA1	11	120	1 384	1 384	1 399	1 413
1LA2		120-277 347	1 381	1 381	1 396	1 410
2'X2'						
2LA1	11	120	1 386	1 386	1 401	1 415
2LA2		120-277 347	1 255	1 255	1 269	1 281
2LA3			1 390	1 390	1 405	1 419
2'X4'						
4LA1	11	120	1 397	1 397	1 412	1 427
4LA2		120-277 347	1 398	1 398	1 413	1 427
4LA3			1 409	1 409	1 425	1 439
4LA4			1 366	1 366	1 381	1 395

<sup>1</sup> Maximum wattage per BRIDGE Unit 11 W.

<sup>2</sup> Lumens based on calculated values. Specifications are subject to change at any time without notice.

## ACCESSORIES

PART #	DESCRIPTION	COMPATIBLE WITH
CAS905-1X4	SURFACE MOUNT KIT 1'X4'	1'X4'
CAS905-2X2	SURFACE MOUNT KIT 2'X2'	2'X2'
CAS905-2X4	SURFACE MOUNT KIT 2'X4'	2'X4'
PF-DWK-1X4	DRY WALL KIT FOR 1'X4'	1'X4'
PF-DWK-2X2	DRY WALL KIT FOR 2'X2'	2'X2'
PF-DWK-2X4	DRY WALL KIT FOR 2'X4'	2'X4'
TRA347-120V-50VA	347 V STEP DOWN TRANSFORMER	QUICKSHIP ONLY

Note: Replacement lens available, contact factory for details.

## COMPATIBLES DIMMERS

BRAND	MODEL NUMBER
LEVITON	ILLUMATECH IP710-LFZ
LUTRON	DIVADVSTV
LUTRON	MAESTRO MS-Z101
LUTRON	NOVA T NTSTV
PHILIPS	SUNRISE SR1200ZTUNV

Dimming range 10%-100%.

Note: The following merely lists dimmers that have been tested.

## OCCUPANCY SENSORS

## ON-OFF SENSORS

Detection - On at [Detection Area] % during [Hold Time] min. Off

PART NO	POSITION	VOLTS [VAC]	TECHNOLOGY	HEIGHT [FT]	DETECTION AREA [%]	HOLD TIME [MIN.]	DAYLIGHT MIN LEVEL [LUX]	REMOTE <sup>1</sup>
OSI-F0-0301	INTERNAL	120-277	HIGH FREQUENCY	32 MAX	100	20	DISABLE	
OSI-F0-0601	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	30	DISABLE	OSI-RC-MH02

N

## BI-LEVEL SENSORS

Detection - On at [Detection Area] % during [Hold Time] min., then [Stand-by Dim level] %

PART NO	POSITION	VOLTS [VAC]	TECHNOLOGY	HEIGHT [FT]	DETECTION AREA [%]	HOLD TIME [MIN.]	STAND-BY DIM LEVEL [%]	DAYLIGHT MIN LEVEL [LUX]	REMOTE <sup>1</sup>
OSI-FB-0301	INTERNAL	120-277	HIGH FREQUENCY	32 MAX	100	20	30	DISABLE	
OSI-FB-0302	INTERNAL	120-277	HIGH FREQUENCY	32 MAX	100	20	10	DISABLE	
OSI-FB-0303	INTERNAL	120-277	HIGH FREQUENCY	32 MAX	100	20	50	DISABLE	
OSI-FB-0601	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	30	30	DISABLE	OSI-RC-MH02
OSI-FB-0602	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	30	10	DISABLE	OSI-RC-MH02
OSI-FB-0603	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	15	40	DISABLE	OSI-RC-MH02
OSI-FB-0604	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	30	40	DISABLE	OSI-RC-MH02

## TRI-LEVEL SENSORS

Detection - On at [Detection Area] % during [Hold Time] min., then [Stand-by Dim level] % during [Stand-by period] min. Off

PART NO	POSITION	VOLTS [VAC]	TECHNOLOGY	HEIGHT [FT]	DETECTION AREA [%]	HOLD TIME [MIN.]	STAND-BY DIM LEVEL [%]	STAND-BY PERIOD [MIN]	DAYLIGHT MIN LEVEL [LUX]	REMOTE <sup>1</sup>
OSI-FT-0301	INTERNAL	120-277	HIGH FREQUENCY	32 MAX	100	20	30	10	DISABLE	
OSI-FT-0601	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	30	30	10	DISABLE	OSI-RC-MH02

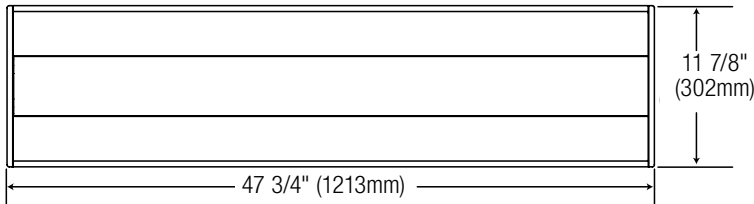
<sup>1</sup>To be ordered separately.

For more settings visit  
[aimlite.com/documentation/technical-information/](http://aimlite.com/documentation/technical-information/)

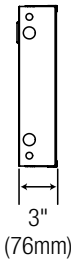
DIMENSIONS

1' X 4' LUMINAIRE

Back view

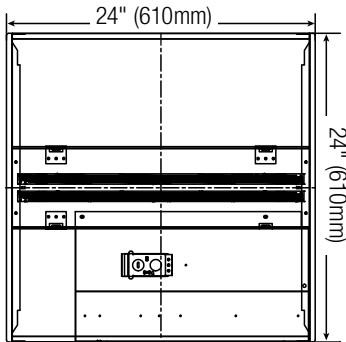


Side view

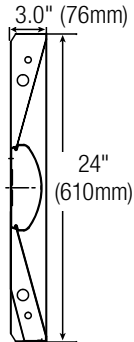


2' X 2' LUMINAIRE

Back view

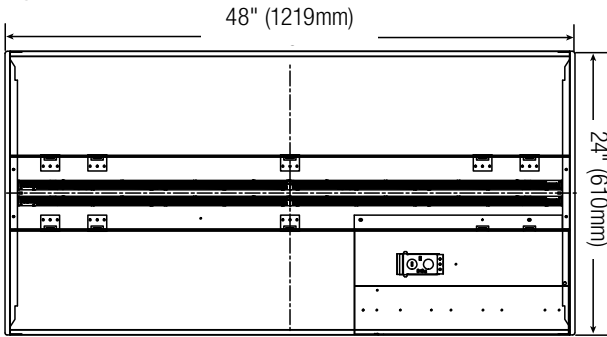


Side view

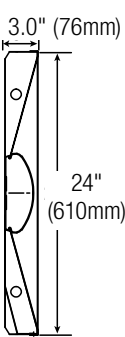


2' X 4' LUMINAIRE

Back view



Side view



## BRIDGE

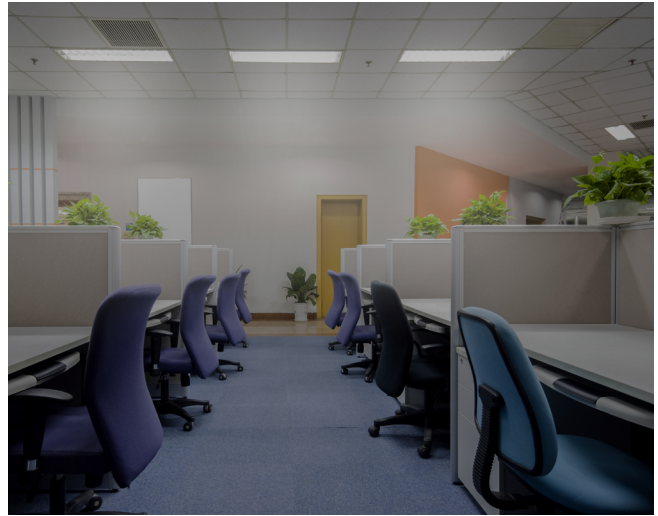
### NORMALLY ON EMERGENCY REMOTE LUMINAIRE

This luminaire can be used with an emergency backup powered by either a 12 V or 24 V DC AimLite battery unit, complete with or without auto test.

#### NORMAL MODE



#### EMERGENCY MODE



#### TYPICAL SPECIFICATION

Supply and install AimLite BRIDGE \_\_\_\_ft, recessed LED center basket, Model number: \_\_\_\_\_ remote normally ON emergency luminaire, CSA C22.2 141-15 certified and meet the requirements prescribed by ICES-005. Normally ON when AC is present and when connected to an AimLite battery unit complete with or without auto test, the luminaire shall act as an emergency lighting remote and consume 11 W of DC power in \_\_\_\_ V producing 1 255 - 1 439 lumens in emergency mode.

The remote normally ON emergency luminaire shall be powered by an AimLite emergency lighting battery unit as described herein and shown on the drawings. The AimLite auto diagnostic micro-controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120 V, 277 V or 347 V, 60 Hz and be CSA listed. The unit shall have an output of: \_\_\_\_V and \_\_\_\_W.

The charge voltage factory set to  $\pm 1\%$  tolerance. High Efficacy, rapid recovery, precision control charging system shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, when the battery is at full capacity, the charger will shut-off. Periodically the charger shall provide a pulse of energy to keep the battery topped off. The pulse charger shall be precisely regulated and shall charge the battery in relation to its temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load when the battery reaches the end of discharge.

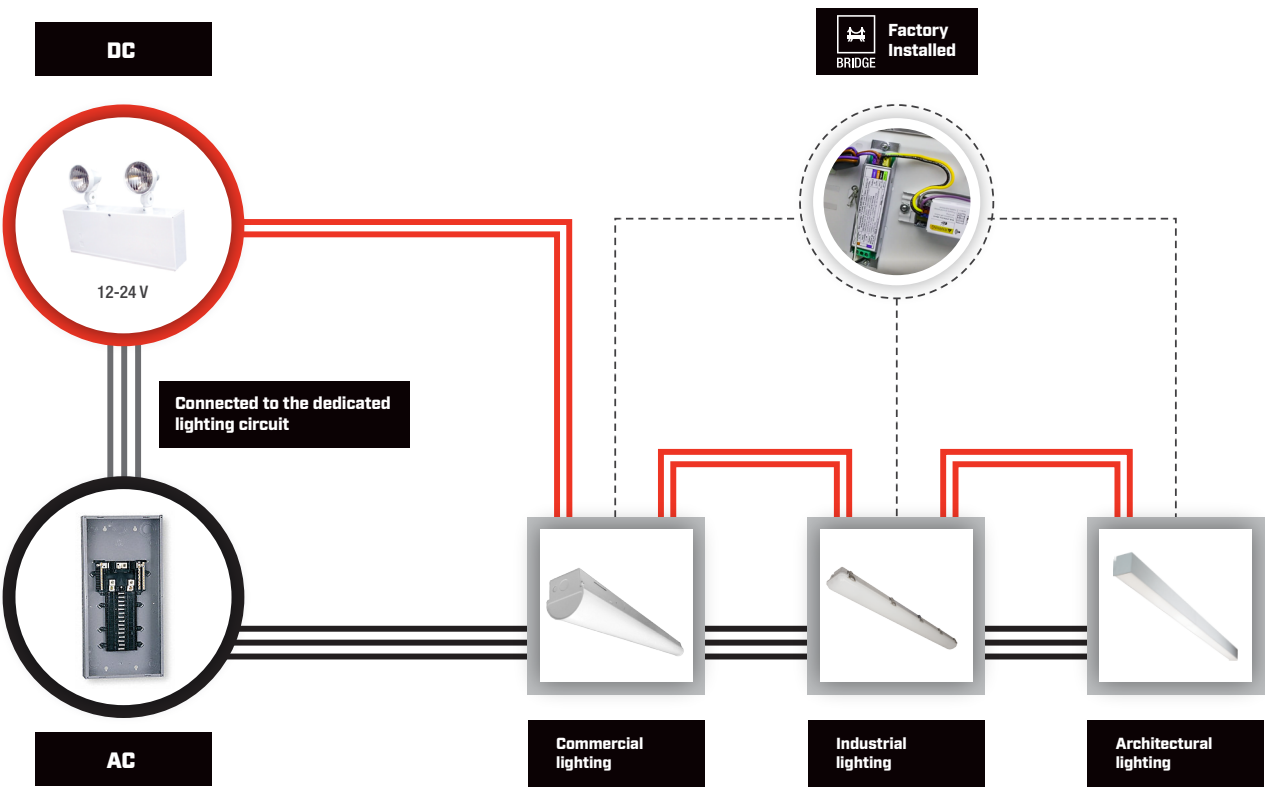
The automated testing performed by the AimLite auto test system has been designed to comply with all of the requirements of the National Fire Code. Every month, a 5 minute discharge and diagnostic test checks the operational status of the unit. Every 12 months, this test is extended to the full 30 minute, code required duration. This ensures that the battery charger is recharging the battery in accordance with code requirements.

The unit shall be AimLite model: EBST \_\_\_\_\_

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

BRIDGE  
NORMALLY ON EMERGENCY REMOTE LUMINAIRE

BRIDGE WIRING DIAGRAM



LEGEND

- AC wires
- Connected to the dedicated lighting circuit
- DC wires
- BRIDGE Factory Installed

Emergency mode	Spacing
C2AR-L	Average spacing for 1 out of every 4 luminaires, normally ON in the path of egress, when at 8, 10, or 12 foot mounting heights.

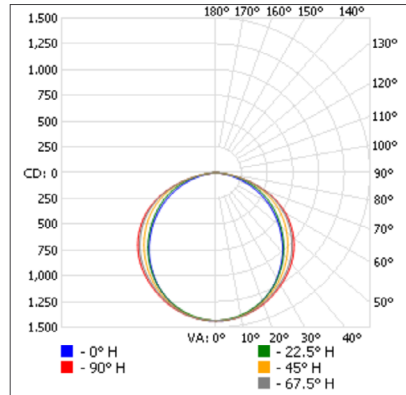
Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

# C2AR-L

## PHOTOMETRIC DATA<sup>1</sup>

C2AR-1-1X4-35K • 4293LM


### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

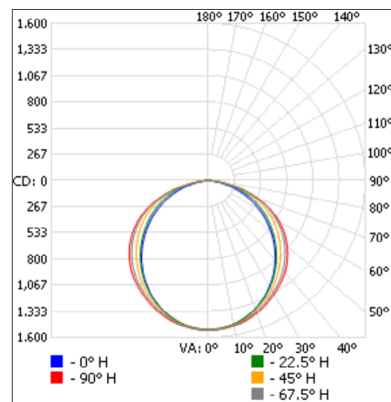
ZONE	LUMENS	% FIXTURE
0-30	1 115.8	26
0-40	1 836.2	42.8
0-60	3 312.1	77.2
60-90	979.4	22.8
0-90	4 291.6	100

### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
2.0'	358.9		5.5'	7.7'
4.0'	89.7		11.0'	15.4'
6.0'	39.9		16.5'	23.1'
8.0'	22.4		21.9'	30.8'
10.0'	14.4		27.4'	38.5'
<div><div></div> Vert. Spread: 107.8° <div></div> Hor Spread: 125.1°</div>				

C2AR-2-1X4-40K • 4515LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

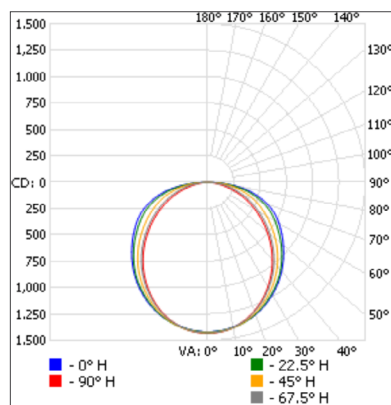
ZONE	LUMENS	% FIXTURE
0-30	1 180.4	26.1
0-40	1 939.9	43
0-60	3 492.9	77.4
60-90	1 021.4	22.6
0-90	4 514.2	100

### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
2.0'	381.3		5.4'	7.7'
4.0'	95.3		10.8	15.4'
6.0'	42.4		16.1'	23.1'
8.0'	23.8		21.5'	30.8'
10.0'	15.3		26.9'	38.5'
<div>■ Vert. Spread: 106.7° ■ Hor Spread: 125.1°</div>				

C2AR-3-2X2-35K • 4242LM


### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 100.8	26
0-40	1 798.3	42.4
0-60	3 192.1	75.3
60-90	1 048.6	24.7
0-90	4 240.4	100

### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
2.0'	356.5		8.2'	5.0'
4.0'	89.1		16.4'	10.0'
6.0'	39.6		24.6'	15.0'
8.0'	22.3		32.8'	20.0'
10.0'	14.3		41.0'	25.0'
<div>■ Vert. Spread: 128.0° ■ Hor Spread: 102.6°</div>				

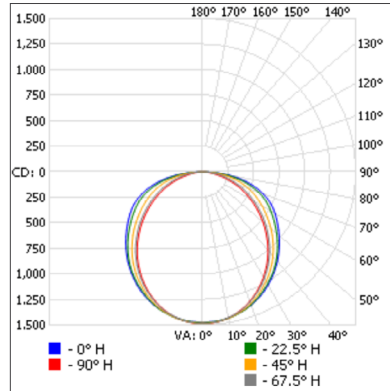
<sup>1</sup> Complete IES files available on our website.



## PHOTOMETRIC DATA<sup>1</sup>

### C2AR-4-2X2-40K • 4410LM

#### POLAR CANDELA DISTRIBUTION



#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 144.4	26
0-40	1 869.8	42.4
3 319.5	3 319.5	75.3
60-90	1 089.7	24.7
0-90	4 409.2	100

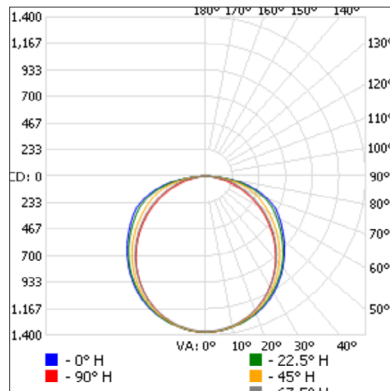
#### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
2.0'	370.2	8.3'	5.0'
4.0'	92.6	16.6'	10.0'
6.0'	41.1	25.0'	15.0'
8.0'	23.1	33.3'	20.0'
10.0'	14.8	41.6'	25.0'

■ Vert. Spread: 128.6° ■ Hor Spread: 102.8°

### C2AR-5-2X4-35K • 4118LM

#### POLAR CANDELA DISTRIBUTION



#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 060.6	25.8
0-40	1 736.4	42.2
0-60	3 095.7	75.2
60-90	1 021.4	24.8
0-90	4 117.1	100

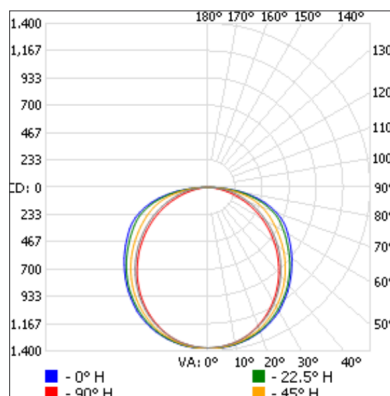
#### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
2.0'	342.7	8.2'	5.3'
4.0'	85.7	16.3'	10.7'
6.0'	38.1	24.5'	16.0'
8.0'	21.4	32.7'	21.4'
10.0'	13.7	40.9'	26.7'

■ Vert. Spread: 127.9° ■ Hor Spread: 106.4°

### C2AR-6-2X4-40K • 4284LM

#### POLAR CANDELA DISTRIBUTION



#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 074.9	25.1
0-40	1 765.7	41.2
0-60	3 171.9	74.1
60-90	1 111.2	25.9
0-90	4 283.1	100

#### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
2.0'	343.6	9.4'	5.4'
4.0'	85.9	18.8'	10.7'
6.0'	38.2	28.2'	16.1'
8.0'	21.5	37.7'	21.4'
10.0'	13.7	47.1'	26.8'

■ Vert. Spread: 134.0° ■ Hor Spread: 106.4°

<sup>1</sup> Complete IES files available on our website.

All products are subject to change or may be discontinued any time without notice.

Please consult our chemical resistance guide to ensure selection of the proper product for your application.