

Project \_\_\_\_\_

Type \_\_\_\_\_

Notes \_\_\_\_\_

## PERFORMANCE/ LINEAR FT AT 3000K AND 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY*
300 lm/ft	2.9 W/ft	104 lm/W
400 lm/ft	3.9 W/ft	102 lm/W
500 lm/ft	5.0 W/ft	100 lm/W

REFER TO PHOTOMETRIC DATA SECTION FOR EXACT VALUES

\*for 2700K use 0.94 multiplier on watts and efficacy

\*for 4000K use 1.02 multiplier on watts and efficacy



## Ordering Guide

CCWL	SL			
PRODUCT ID	LIGHT ENGINE	NOMINAL LUMENS/FT	CRI	COLOR TEMP.
CCWL Cove LED wall LO-output	SL surroundlite	300 300 lm/ft - Minimum 500 500 lm/ft - Maximum	80 80 CRI 90 90 CRI	27 2700 K 30 3000 K 35 3500 K 40 4000 K
Outputs between listed min and max are available. Consult factory for outputs outside of the listed range.				<a href="#">Consult Axitune spec sheet for Axis color technology options</a>

COVE OPENING FT (MM)	W FINISH	VOLTAGE	DRIVER	CIRCUITS
CL(#) Cove linear CP(#) Cove pattern	W white	120 120 V 277 277 V 347 347 V UNV universal	DP dimming (0-10V) 1% LT Lutron <sup>(1)</sup> BI bi-level dimming O other <sup>(2)</sup>	1 1 circuit 2 2 circuits <sup>(3)</sup> +E(#) emergency section <sup>(4)</sup> +NL(#) night light section <sup>(4)</sup>
Please specify the indirect light Cove opening length. Please provide configuration drawings. Fixture optimization provided by factory; Cove minimum length is 2 ft.			(1) Specify system (2) Please consult factory; see page 4 Not available with 347V Please consult factory <a href="#">Consult Axitune spec sheet for Axis color driver options</a>	(3) Cannot combine with E or NL (4) Specify quantity

MOUNTING/SUSPENSION	OTHER (OPTIONAL)	REMOTE CONTROLS (OPTIONAL)	CUSTOM (OPTIONAL)
AC Armstrong Axiom Cove <sup>(5)</sup> C Other Cove	F fuse CP Chicago plenum*	DS# daylight sensor OS# occupancy sensor DOS# daylight & occupancy sensor ENR# enlightened remote <sup>(6)</sup> WC# wireless control dimming	C custom
(5) Ordered separately from Armstrong.	Not available with 347V * Luminaires with Chicago plenum option are shipped with 6' of FMT cable. See page 6 for more details.	(6) Please consult factory Specify quantity. Remote only. See integrated controls guide for more details.	Please specify

# Cove Lighting Redefined



Few luminaires have been more in need of an upgrade than cove lights, long stifled by complicated details and inconsistent, time-consuming aiming.

So Armstrong and Axis joined forces to codevelop the best possible cove lighting solution from the ground up.

Introducing Axiom® Indirect Light Coves and CovePerfekt™... The new standard for cove lighting.

**Up to twice the efficiency of other cove products.**

**Multiple features packed into only four luminaires.**

**Foolproof mounting. Aim-free lighting.**

**Cove lighting will never be the same...**

For more information on Axiom® Indirect Light Coves, go to [armstrong.com/axiomlightcoves](http://armstrong.com/axiomlightcoves)

## AESTHETICS

- No lamp images • No socket shadows
- No color shifting • No bright spots
- No dark ends • Just total visual comfort

## PERFORMANCE

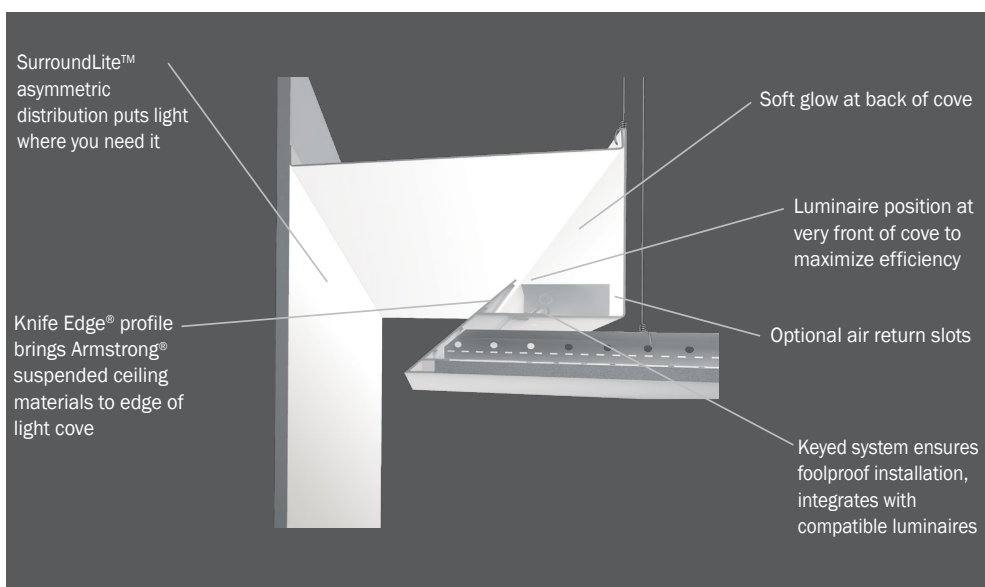
- SurroundLite™ optics with 180-degree distribution eliminates trapped light
- Improved LED lighting effectiveness – Same amount of ambient light using as little as half the watts.
- Integrated driver (Ceiling, Wall) and battery (Ceiling).

## SPECIFICATION

- No need for complex cove details.
- No need to select beam angles, figure out cove dimensions and locate remote drivers.

## INSTALLATION (in AXIOM® Light Coves).

- Tool-free installation of luminaires.
- Up to 90% less labor to install coves.
- Easy onsite trade coordination
- Long runs conveniently connected to a single line-voltage circuit (up to 100 feet)



**The ultimate cove lighting solution...**  
**CovePerfekt in an Axiom® Indirect Light Cove**

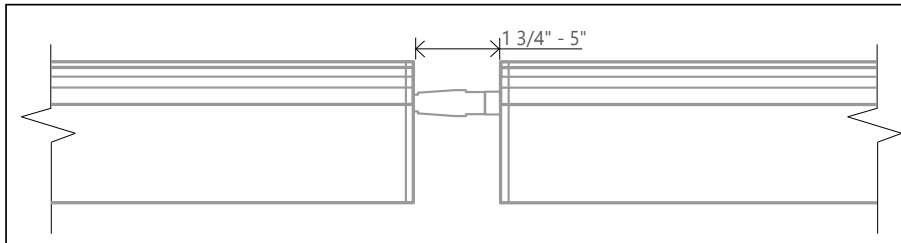
**i** Axiom® Indirect Light Coves ordered separately from Armstrong.

### Indirect light Cove opening



**i** Axis will determine the best fixture length combination to fill the Cove opening.

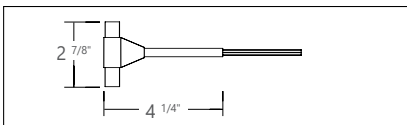
### CABLE CONNECTION - LENGTH RANGE



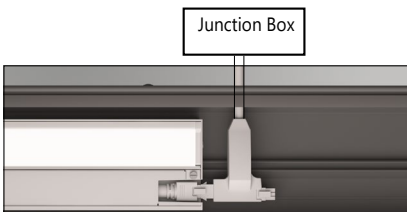
### ● ACCESSORIES

Straight or T power feeds available to feed power anywhere along run

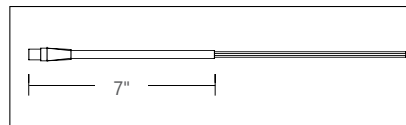
	Item Number	Item	Housing Color	Dimensions	Description		
STD	<b>WR14443</b>	T-connector	White	2 7/8" x 4 1/4"	End feed or middle feed connector from cove fixture to junction box located behind the cove		Feed up to 100' @ 120V 200' @ 277V
	<b>WR14433</b>	Panel mount female connector	White	22" (length)	End feed connector from cove fixture to connect next Cove fixture in the run		Feed up to 100' @ 120V 200' @ 277V
	<b>WR14434</b>	Straight male connector	White	7" (length)			
CCEA	<b>EL18832</b>	90° Connector		6' (length)	Chicago plenum approved 90° Connector		Feed up to 100' @ 120V 200' @ 277V
	<b>PWHP-72-5W</b>	FMT, Chicago Plenum Rated			Custom plenum flex whip		



**T-connector**



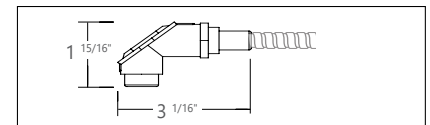
**T - End Power Feed**



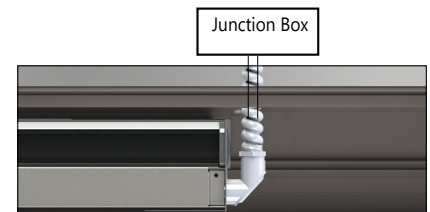
**Straight connector**



**Straight End - Power Feed**



**90°-connector + FMT, CCEA**



**T - End Power Feed**

**i** Connector types and locations to be indicated on the shop drawings.

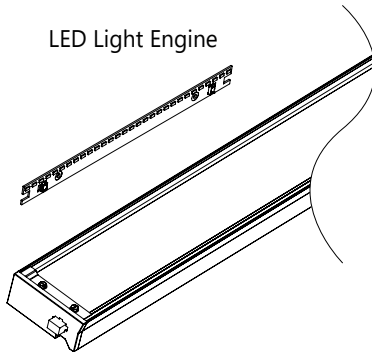
## ● LIGHT GUIDE

High precision light guide made of PMMA material, allows distribution of controlled light in all 3-dimensions to put light on both vertical and horizontal planes within the space. Patented lightguide design featuring molecular optics and precision-coupled optic components yield a high efficiency luminaire. In-plane mixing maximizes color uniformity while light emitting area is uniform and diffuse without 'head lighting' from the LED's.

## ● LED UPGRADE / REPLACEMENT

All LED light engines used are field replaceable and upgradable to ensure the lighting system will last for years. Future-proof design comes with easy access to LED light engines from above using quick connectors (included in luminaire) and a screwdriver.

- i** For more information on LED light engine upgrade and replacement, please refer to the COVE LED Light Engine Replacement sheet available at: [www.axislighting.com](http://www.axislighting.com) under 'Downloads' tab.



## ● SYSTEMS (S#)

Runs of COVE that are greater than 12ft in length are designated as systems (S#). This means that the run is comprised of a combination 4ft and/or 8ft sections to be assembled on site using our joining system. For more information on systems and joining, please refer to the COVE installation sheets available at: [www.axislighting.com](http://www.axislighting.com) under 'Downloads' tab.

## ● WEIGHT

<b>COVE 4 ft</b>	6 lbs / 2.7 kg
<b>COVE 8 ft</b>	12 lbs / 5.4 kg
<b>COVE 12 ft</b>	18 lbs / 8.2 kg

## ● FINISH

White paint.

## ● APPROVALS

Certified to UL and CSA standards  
Suitable for damp locations.



## ● LED SYSTEM

<b>CRI</b>	Minimum 80 or 90 color rendering index
<b>CCT</b>	Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3-step MacAdam ellipse). Both within fixture and fixture to fixture.
<b>LED life</b>	Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
<b>Thermal Management Environment</b>	Aluminum housing acting as the heat spreader to maximize life. Dry and damp rated in operating ambient temperatures of 0-40°C (32-104F)

## ● CONSTRUCTION

<b>Housing</b>	Extruded aluminum (0.060" nominal)
<b>End Cap</b>	Die cast aluminum (0.080" nominal)
<b>Top Covers</b>	Cold rolled sheet steel painted (22 gauge)

## ● ELECTRICAL

<b>Lutron driver</b>	LDE1 - EcoSystem H-Series (1%) LDE5 - EcoSystem 5-Series (5%) LTE - Hi-Lume® A-series 2Wires Forward Phase (1%) <small>*Consult factory</small>
<b>Other drivers</b>	DALI - Digital Addressable Lighting Interface DMX - Digital Multiplex LV - line voltage - Advance Mark 10 Xitanium SR - For wireless sensor POE (Power over Ethernet) - Low Voltage Lighting System
<b>Input Voltage</b>	120V, 277V, 347V, UNV.

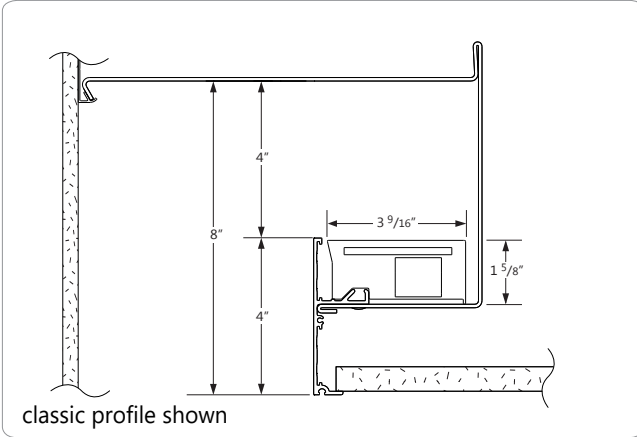
- i** Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

## ● WARRANTY

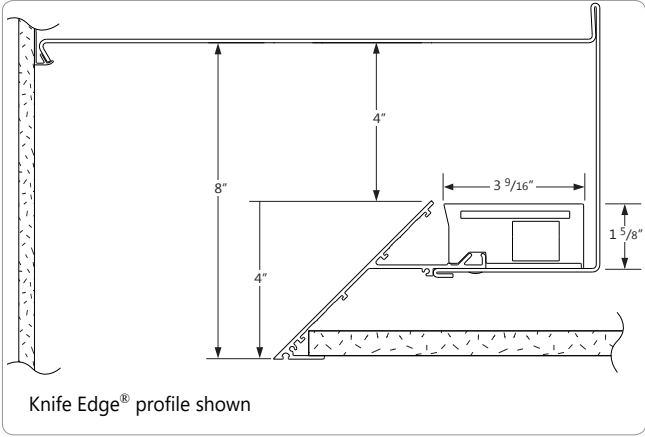
Axis Lighting will warrant defective LEDs, boards, and drivers for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specifications. If defective, Axis will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Axis.

**i** Armstrong and other cove ceiling systems provided by others.

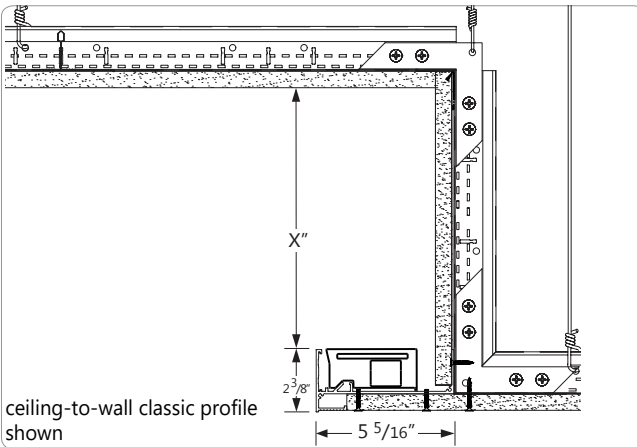
### ● CEILING MOUNTING OPTIONS



**AC** ARMSTRONG AXIOM COVE

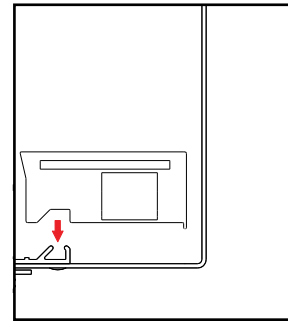


**AC** ARMSTRONG AXIOM COVE

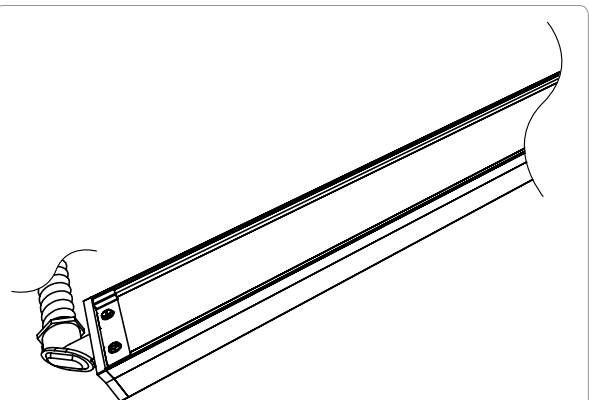


**AC** ARMSTRONG AXIOM INDIRECT LIGHT LEDGE

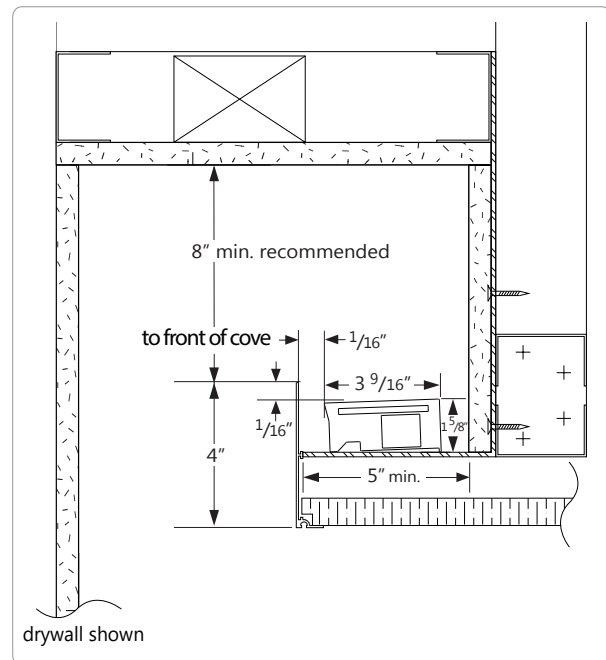
WITH ARMSTRONG CEILING



### ● CHICAGO PLENUM OPTION

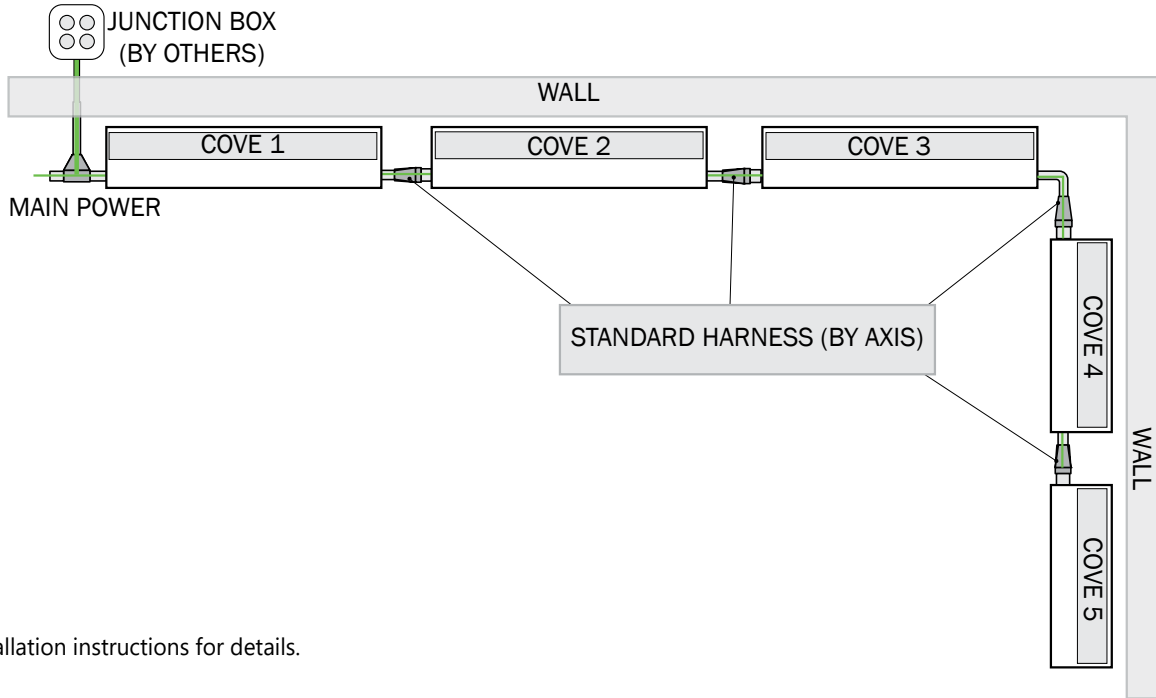


**i** Luminaires with Chicago plenum option are shipped with 6' of FMT cable + 90° Connector.



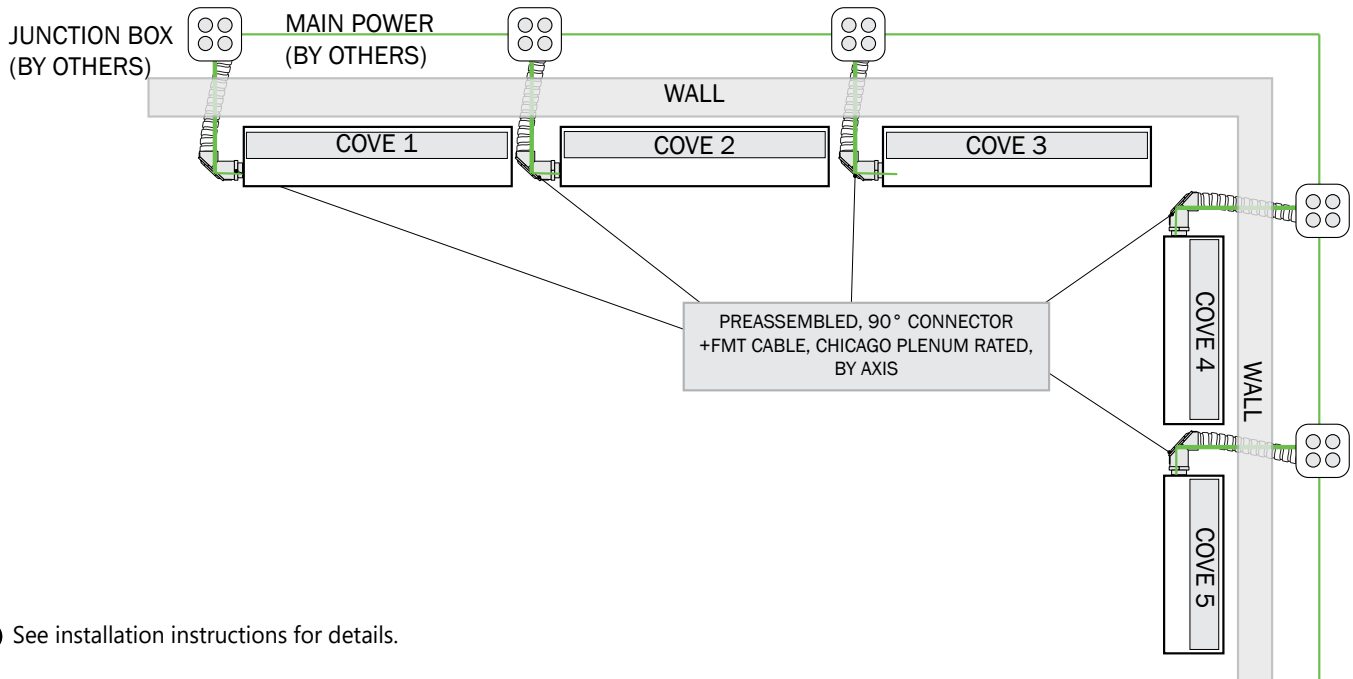
**C** OTHER COVE

### ● STANDARD HARNESS OPTION



**i** See installation instructions for details.

### ● CHICAGO PLENUM OPTION

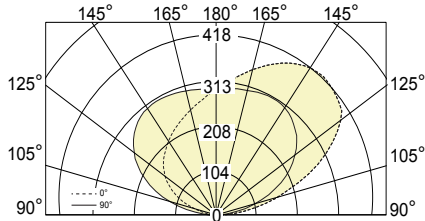


**i** See installation instructions for details.

## ● PHOTOMETRIC DATA

**NO SHIELDING (NO)**

CCWL-SL-100/0-300-80-35-4-W  
100% up at 300 lm/ft

**PHOTOMETRIC CURVE**


**Lumen/ft up: 300 lm/ft**  
**Total Lumens: 1200 lm (for 4ft)**  
**Input Watts: 11.5 W**  
**Efficacy: 104 lm/W**

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.  
3500K shown. For 2700K, divide wattage by 0.94 and multiply efficacy by 0.94.  
For 4000K, divide wattage by 1.02 and multiply efficacy by 1.02.

IES FILE: CCWL-SL-100-0-300-80-35-4-W.IES

TESTED ACCORDING TO IES LM-79-2008

**CANDELA DISTRIBUTION**

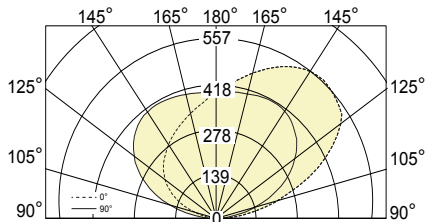
Vertical Angle	Horizontal Angles								
	0	22.5	45	67.5	90	112.5	135	157.5	180
90	0	0	0	0	0	0	0	0	0
95	4	17	19	25	35	33	37	42	45
105	55	76	82	96	121	139	142	148	154
115	115	130	141	164	199	221	250	273	282
125	158	167	181	211	253	283	317	365	381
135	187	192	208	242	287	320	358	397	412
145	210	214	230	261	302	337	371	403	414
155	231	234	247	271	302	332	359	381	388
165	252	254	263	278	297	315	332	345	348
175	277	279	281	287	294	299	305	308	308
180	293	293	293	293	293	293	293	293	293

**ZONAL LUMENS**

Zone	Lumens
90	
90-100	26
100-110	107
110-120	183
120-130	222
130-140	219
140-150	189
150-160	141
160-170	85
170-180	28
180	

**NO SHIELDING (NO)**

CCWL-SL-100/0-400-80-35-4-W  
100% up at 400 lm/ft

**PHOTOMETRIC CURVE**


**Lumen/ft up: 400 lm/ft**  
**Total Lumens: 1600 lm (for 4ft)**  
**Input Watts: 15.7 W**  
**Efficacy: 102 lm/W**

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.  
3500K shown. For 2700K, divide wattage by 0.94 and multiply efficacy by 0.94.  
For 4000K, divide wattage by 1.02 and multiply efficacy by 1.02.

IES FILE: CCWL-SL-100-0-400-80-35-4-W.IES

TESTED ACCORDING TO IES LM-79-2008

**CANDELA DISTRIBUTION**

Vertical Angle	Horizontal Angles								
	0	22.5	45	67.5	90	112.5	135	157.5	180
90	0	0	0	0	0	0	0	0	0
95	6	23	25	33	46	43	50	56	60
105	73	101	110	129	162	185	189	197	206
115	153	173	187	218	265	295	334	364	376
125	211	223	241	282	338	377	422	487	507
135	250	256	277	322	382	427	477	529	549
145	280	286	306	348	403	449	495	537	552
155	308	312	329	362	403	443	479	508	517
165	336	339	351	371	397	421	443	460	464
175	369	371	375	382	392	398	406	411	411
180	390	390	390	390	390	390	390	390	390

**ZONAL LUMENS**

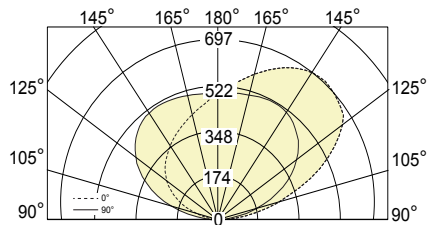
Zone	Lumens
90	
90-100	35
100-110	143
110-120	245
120-130	295
130-140	292
140-150	252
150-160	188
160-170	113
170-180	37
180	

## ● PHOTOMETRIC DATA

**NO SHIELDING (NO)**

CCWL-SL-100/0-500-80-35-4-W

100% up at 500 lm/ft

**PHOTOMETRIC CURVE****Lumen/ft up: 500 lm/ft****Total Lumens: 2000 lm (for 4ft)****Input Watts: 20.1 W****Efficacy: 100 lm/W**

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.

3500K shown. For 2700K, divide wattage by 0.94 and multiply efficacy by 0.94.

For 4000K, divide wattage by 1.02 and multiply efficacy by 1.02.

IES FILE: CCWL-SL-100-0-500-80-35-4-W.IES

TESTED ACCORDING TO IES LM-79-2008

**CANDELA DISTRIBUTION**

Vertical Angle	Horizontal Angles								
	0	22.5	45	67.5	90	112.5	135	157.5	180
90	0	0	0	0	0	0	0	0	0
95	7	29	32	41	58	54	62	70	74
105	92	127	137	161	202	231	236	246	257
115	191	216	234	273	332	368	417	455	470
125	264	278	302	352	422	472	528	609	634
135	312	320	347	403	478	534	596	661	686
145	349	357	383	434	504	562	618	671	690
155	385	390	411	452	504	554	598	635	646
165	420	423	439	464	496	526	554	574	580
175	462	464	468	478	490	498	508	514	514
180	488	488	488	488	488	488	488	488	488

**ZONAL LUMENS**

Zone	Lumens
90	
90-100	44
100-110	179
110-120	306
120-130	369
130-140	365
140-150	315
150-160	235
160-170	141
170-180	47
180	