

Project \_\_\_\_\_

Type \_\_\_\_\_

Notes \_\_\_\_\_

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

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY*
700 lm/ft	7.9 W/ft	89 lm/W
900 lm/ft	10.6 W/ft	85 lm/W
1100 lm/ft	13.5 W/ft	81 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

Axitune  
Dim-to-WarmAxitune  
Tunable WhiteAxitune  
Color Tuning

PoE

CONTROL  
SENSORSBIOS  
ILLUMINATEDUL  
ListedLED BOARD & DRIVER  
5 YEAR WARRANTYCCEA  
APPROVED

Perfekt



SurroundLite

## Ordering Guide

CCH	SL								
PRODUCT ID	LIGHT ENGINE	NOMINAL LUMENS/FT		CRI		COLOR TEMP.			
CCH Cove LED ceiling HI-output	SL surroundlite	700	700 lm/ft - Min	80	80 CRI*	27	2700 K	B30	3000 K - Bios*
		1100	1100 lm/ft - Max	90	90 CRI**	30	3000 K	B35	3500 K - Bios*
						35	3500 K	B40	4000 K - Bios*
						40	4000 K	TW2750	2700-5000 K - Tunable White
								TW2765	2700-6500 K - Tunable White
								DW3020	3000-2000 K - Dim to Warm
								TC1680	1650-8000 K - Color Tuning
		Outputs between listed min and max are available. Consult factory for outputs outside of the listed range. *1000 lm/ft - Maximum for 90 CRI. Consult factory for max output with BIOS		* Not available with Color Tuning. ** Maximum 1000 lumens/ft; Not available with Bios.		Consult Axitune technical sheet for more information on color technology. *Consult BIOS guide for more information on BIOS technology			

COVE OPENING FT (MM)		W	VOLTAGE	DRIVER	CIRCUITS
CL(#)	CP(#)	FINISH			
Cove linear	Cove pattern	W white	120 120 V	DP dimming (0-10V) 1%	1 1 circuit
			277 277 V	LT(#) Lutron*	2 2 circuits *
			347 347 V	BI bi-level dimming	+E(#) emergency section**
			UNV universal	O(#) other**	+NL(#) night light section**
			DC low voltage*	DPB(#) dimming (0-10V) 1% with Bios*	
				TW(#) tunable white drivers*	
				CT(#) color tuning drivers*	
				POE(#) POE drivers*	
Please specify the indirect light Cove opening length. Please provide configuration drawings. Fixture optimization provided by factory; Cove minimum length is 2 ft.			* Only available with POE drivers.	* See page 4 to specify system ** Please consult factory; see page 4 Not available with 347V Please consult factory	* Cannot combine with E or NL ** Specify quantity

MOUNTING/SUSPENSION	BATTERY (OPTIONAL)	OTHER (OPTIONAL)	REMOTE IC CONTROLS (OPTIONAL)	CUSTOM (OPTIONAL)
AC Armstrong Axiom Cove* C Other Cove	B(#) battery pack	F fuse CP Chicago plenum*	DS(#) daylight sensor OS(#) occupancy sensor DOS(#) daylight & occupancy sensor ENR(#) Enlighted remote* WC(#) wireless control dimming	C custom
*Ordered separately from Armstrong.	For minimum 4' long fixture only Not available with 347V. Not available with Color Tuning Please consult factory	Not available with 347V * Luminaires with Chicago plenum option are shipped with 6' of FMT cable. See page 6 for more details.	*Please consult factory Specify quantity. Remote only. See integrated controls guide for more details. Not available with Color Tuning. Consult factory for Tunable White. Not available with DPB (DY) driver for BIOS with Dynamic Spectrum.	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

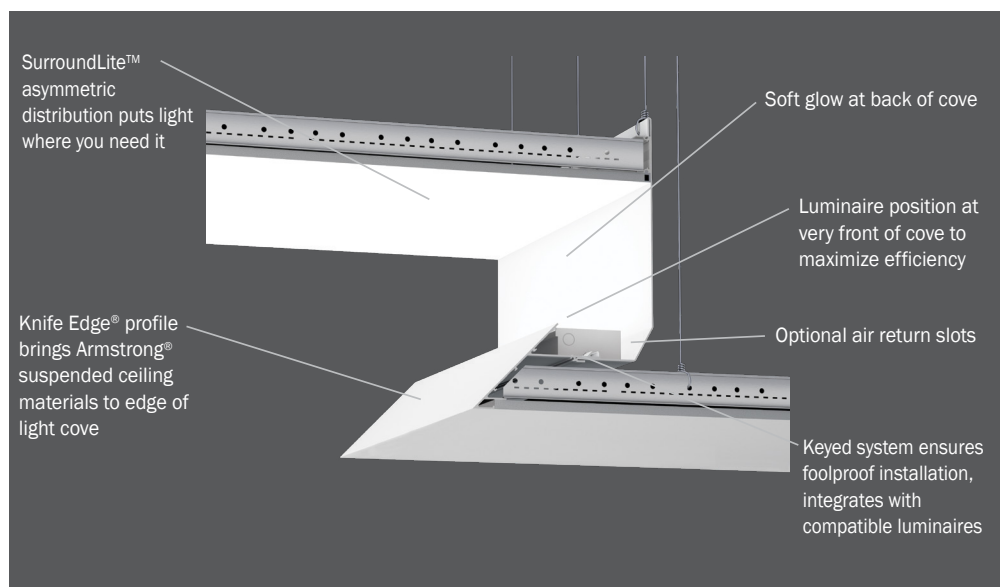
- SurroundLite™ optics with 180-degree distribution eliminates trapped light
- Improved LED lighting effectiveness – Same amount of ambient light using as little as half the watts.
- Integrated driver (Ceiling, Wall) and battery (Ceiling).

## 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.**

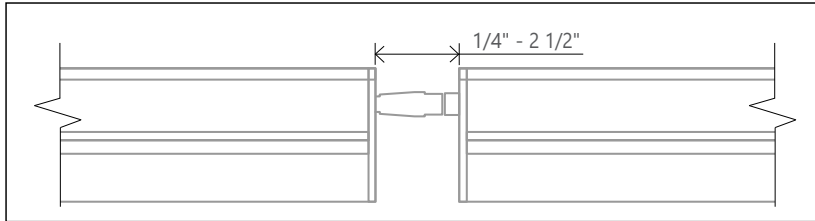
**i** Axiom® Indirect Light Coves ordered separately from Armstrong .

### INDIRECT LIGHT COVE OPENING



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

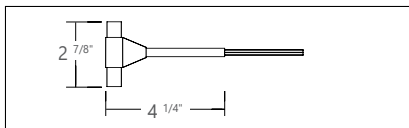
### CABLE CONNECTION - LENGTH RANGE



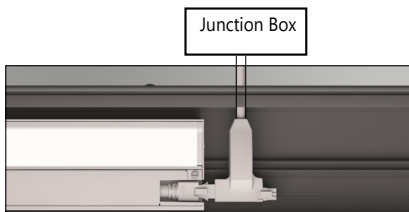
### ● ACCESSORIES

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

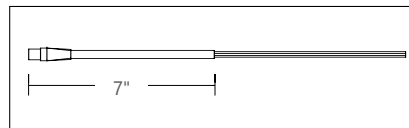
	Item Number	Item	Housing Color	Dimensions	Description		
STD	<b>WR14443</b>	T-connector	White	2 7/8" x 4 1/4"	End feed or middle feed connector from cove fixture to junction box located behind the cove		Feed up to 100' @ 120V 200' @ 277V
	<b>WR14433</b>	Panel mount female connector	White	22" (length)	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



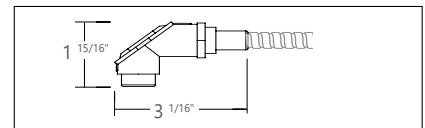
T - End Power Feed



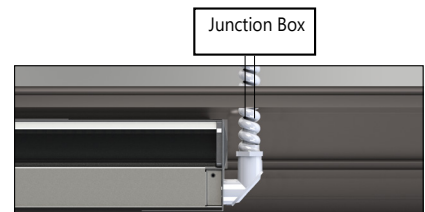
Straight connector



Straight End - Power Feed



90°-connector + FMT, CCEA



T - End Power Feed

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

## ● 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 - Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black LDE5 - 5-Series EcoSystem LTEA - Hi-lume 1% 2-wire (120V forward phase only) *Consult factory
<b>Other drivers</b>	DALI - Digital Addressable Lighting Interface DMX - Digital Multiplex LV - line voltage - Advance Mark 10 Xitanium SR - For wireless sensor
<b>BIOS DPB drivers*</b>	STC - BIOS control 0-10V with static spectrum and BIOS SkyBlue enabled from 100% to 1%. DYN - BIOS control 0-10V with dynamic spectrum and BIOS SkyBlue® with Bio-Dimmng™ enabled 100% to 50%, light output dimming from 49% to 1%.
<b>Tunable White TW drivers*</b>	DALIDT6 - DALI Type 6 (Two DALI Addresses) DALIDT8 - DALI Type 8 (One DALI Address) LTTW - Lutron T-Series Tunable White
<b>Color Tuning CT drivers*</b>	DMX - Standard (required for full color control) LTA5 - Lutron Araya 5 Ecosystem DALIDT8 - DALI Type 8 (Single DALI Address) DLM - Wattstopper DLM
<b>Power over Ethernet POE drivers*</b>	MOLEX IGOR O - Other (Consult factory)
<b>Emergency</b>	Integral emergency battery pack or emergency circuit optional.
<b>Input Voltage</b>	120V, 277V, 347V, UNV, DC.

\*Choose driver from available options.

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

## ● 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.

## ● LED SYSTEM

<b>CRI</b>	Minimum 80 or 90 color rendering index.
<b>CRI BIOS</b>	Minimum 80 color rendering index with R9>90 for all CCTs.
<b>CRI Color Tuning</b>	Minimum 90 color rendering index.
<b>CCT Single Color</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>CCT BIOS</b>	BIOS Static (STC) Choice of 3000K, 3500K and 4000K. BIOS SkyBlue® Dynamic (DYN) Choice of 3000K, 3500K, and 4000K with Bio-Dimmng™  <a href="#">Consult BIOS guide for more information on BIOS technology.</a>
<b>CCT Axitune Systems</b>	<a href="#">Consult Axitune technical sheet for more information on color technology.</a>
<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</b>	Aluminum housing acting as the heat sink to maximize life.
<b>Environment</b>	Dry and damp rated in operating ambient temperatures of 0-40°C (32-104°F).

## ● 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.

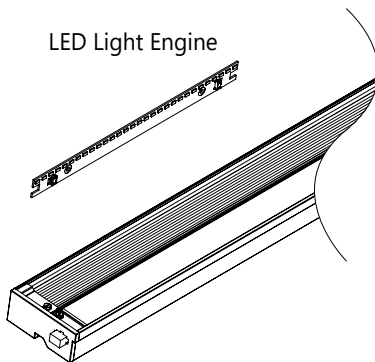
### ● LIGHT GUIDE

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.

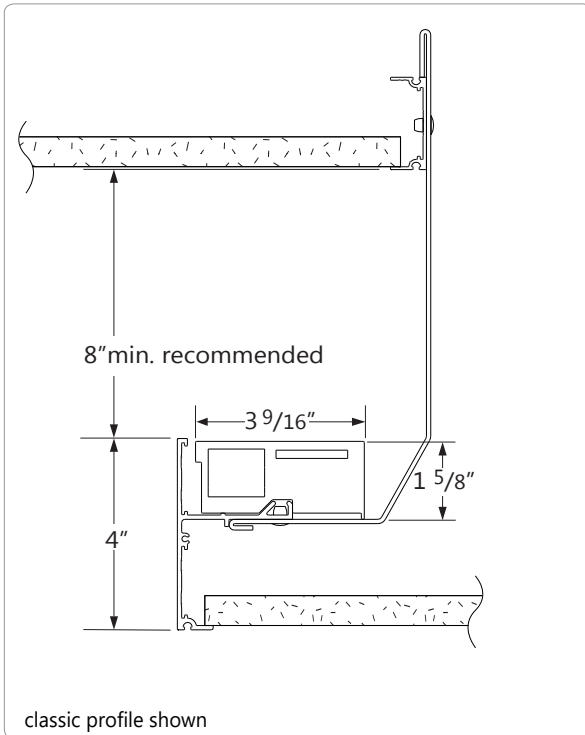
### ● APPROVALS

Certified to UL and CSA standards  
Suitable for damp locations.

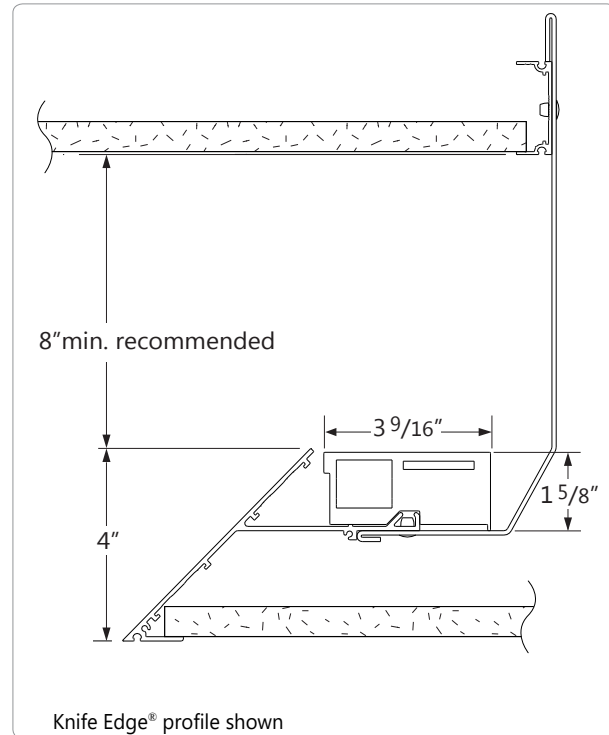


**i** Armstrong and other cove ceiling systems provided by others.

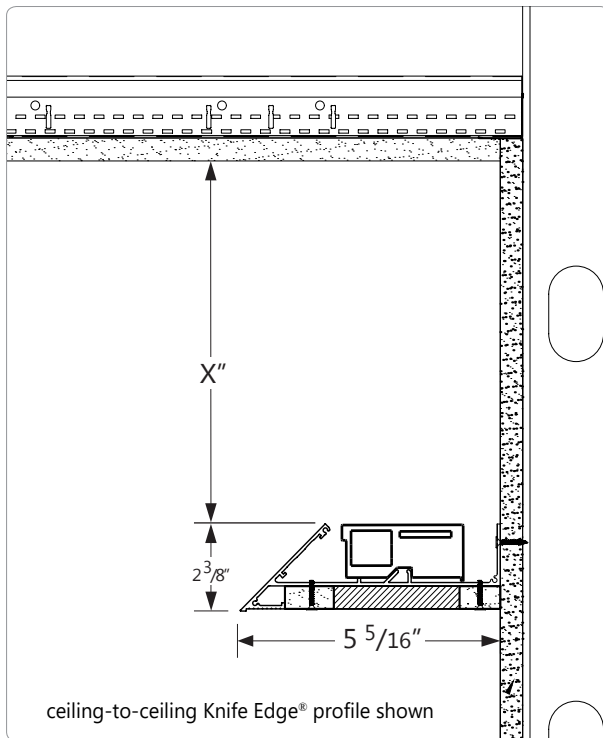
### ● CEILING MOUNTING OPTIONS



**AC** ARMSTRONG AXIOM COVE

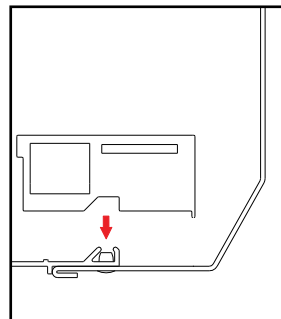


**AC** ARMSTRONG AXIOM COVE

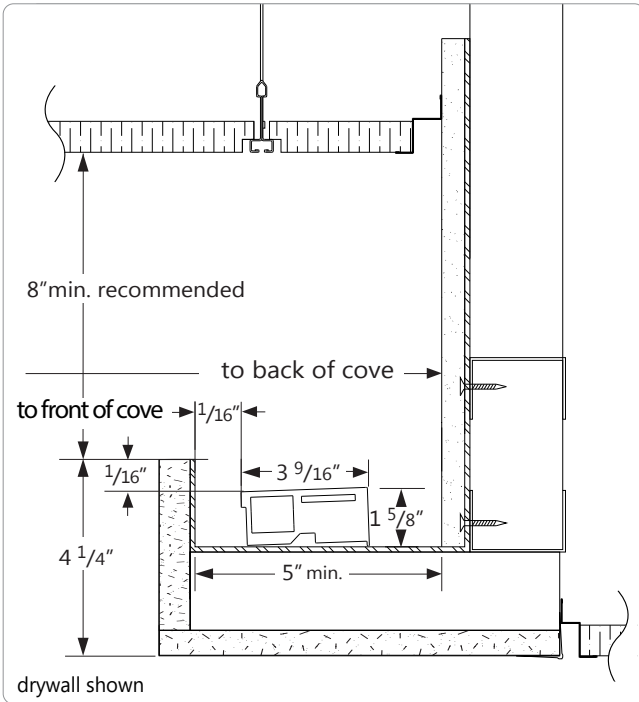


**AC** ARMSTRONG AXIOM INDIRECT LIGHT LEDGE

### WITH ARMSTRONG CEILING



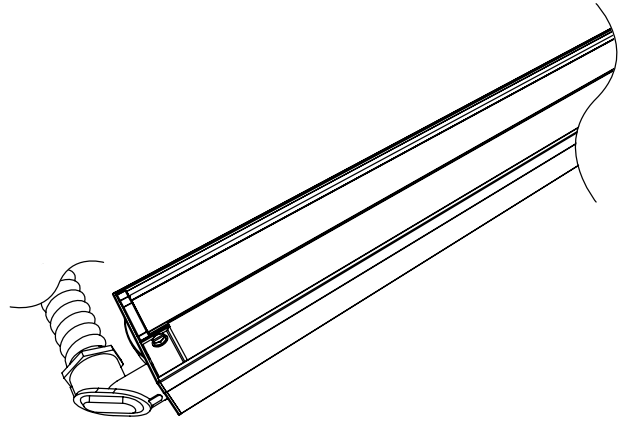
Axis Cove Perfekt - For use with Armstrong Axiom Indirect Light Coves and Ledges



### C OTHER COVE

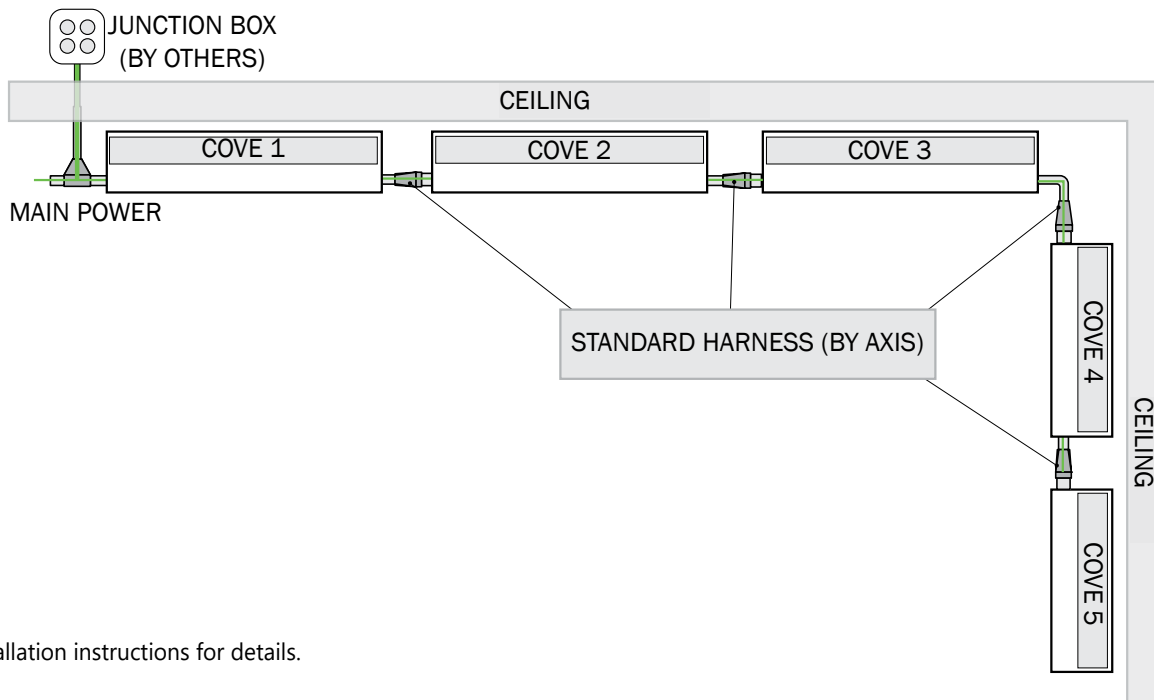
Axis Cove Perfekt - For use with Other Light Coves

### ● CHICAGO PLENUM OPTION



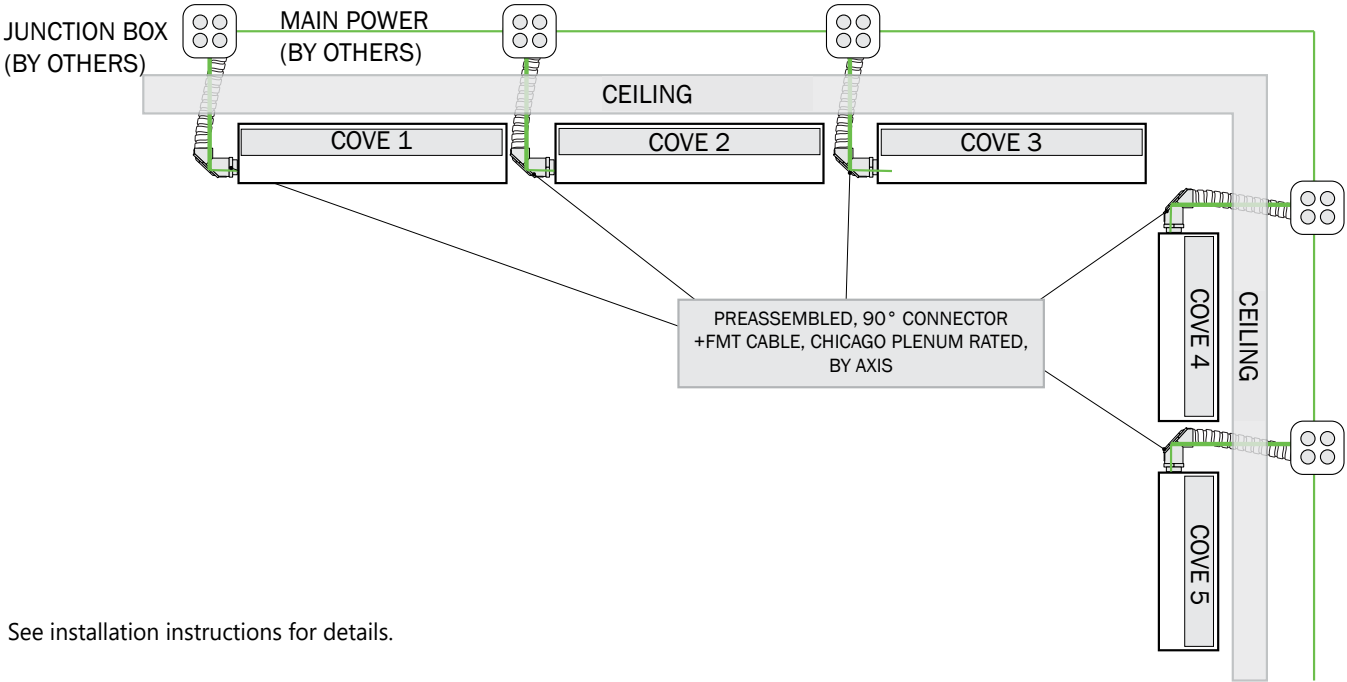
**i** Luminaires with Chicago plenum option are shipped with 6' of FMT cable + 90° Connector.

### ● STANDARD HARNESS OPTION



**i** See installation instructions for details.

● CHICAGO PLENUM OPTION



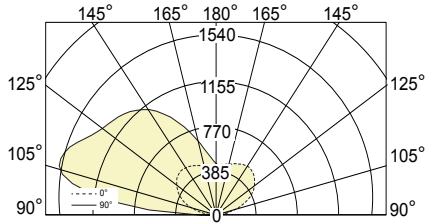
**i** See installation instructions for details.



## ● PHOTOMETRIC DATA

**NO SHIELDING (NO)**

CCH-SL-100/0-700-80-35-4-W  
100% up at 700 lm/ft

**PHOTOMETRIC CURVE**


**Lumen/ft up: 700 lm/ft**  
**Total Lumens: 2800 lm (for 4ft)**  
**Input Watts: 31.5 W**  
**Efficacy: 89 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: CCH-SL-100-0-700-80-35-4-W.IES

TESTED ACCORDING TO IES LM-79-2008

**CANDELA DISTRIBUTION**

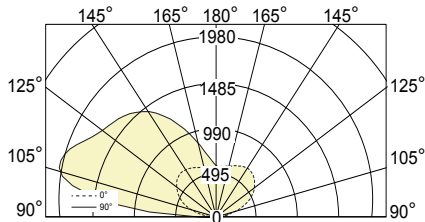
Vertical Angle	Horizontal Angles								
	0	22.5	45	67.5	90	112.5	135	157.5	180
90	59	80	56	31	11	3	2	3	3
95	812	715	300	136	68	54	33	25	3
105	1518	1165	550	331	228	147	90	74	60
115	1467	1159	762	502	361	221	127	99	92
125	1280	1148	909	637	443	280	154	117	113
135	1206	1137	964	710	496	333	224	149	129
145	1109	1053	907	691	500	371	305	251	196
155	909	861	748	601	472	394	359	339	318
165	659	634	578	507	447	407	387	376	389
175	481	477	467	453	438	423	413	405	416
180	438	438	438	438	438	438	438	438	438

**ZONAL LUMENS**

Zone	Lumens
90	
90-100	173
100-110	410
110-120	480
120-130	481
130-140	445
140-150	370
150-160	258
160-170	141
170-180	43
180	

**NO SHIELDING (NO)**

CCH-SL-100/0-900-80-35-4-W  
100% up at 900 lm/ft

**PHOTOMETRIC CURVE**


**Lumen/ft up: 900 lm/ft**  
**Total Lumens: 3600 lm (for 4ft)**  
**Input Watts: 42.3 W**  
**Efficacy: 85 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: CCH-SL-100-0-900-80-35-4-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	76	103	72	40	14	4	3	4	4
95	1044	919	386	175	87	70	42	32	4
105	1951	1498	708	426	293	188	116	95	77
115	1886	1491	980	645	464	284	164	128	118
125	1645	1476	1169	819	570	360	199	151	146
135	1551	1462	1240	913	638	428	288	192	165
145	1426	1354	1166	889	643	478	392	322	252
155	1169	1107	962	773	607	506	461	435	409
165	848	815	743	652	575	523	497	484	500
175	619	613	600	582	563	544	530	521	534
180	563	563	563	563	563	563	563	563	563

**ZONAL LUMENS**

Zone	Lumens
90	
90-100	222
100-110	527
110-120	617
120-130	618
130-140	573
140-150	475
150-160	331
160-170	181
170-180	55
180	

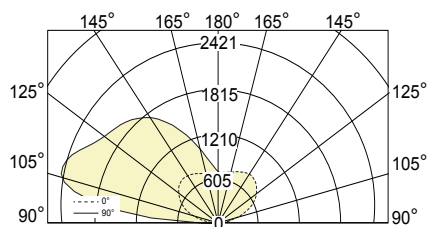
**i** All IES files are available for download at: [www.axislighting.com](http://www.axislighting.com)

## ● PHOTOMETRIC DATA

**NO SHIELDING (NO)**

CCH-SL-100/0-1100-80-35-4-W

100% up at 1100 lm/ft

**PHOTOMETRIC CURVE**

**Lumen/ft up: 1100 lm/ft**  
**Total Lumens: 4400 lm (for 4ft)**  
**Input Watts: 54 W**  
**Efficacy: 81 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: CCH-SL-100-0-1100-80-35-4-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	93	126	89	48	17	5	3	5	5
95	1276	1123	472	214	106	85	51	40	5
105	2385	1831	865	520	359	230	142	116	94
115	2305	1822	1198	789	567	347	200	156	145
125	2011	1804	1429	1001	697	440	243	184	178
135	1896	1786	1516	1116	780	523	352	235	202
145	1743	1655	1425	1086	786	584	479	394	308
155	1428	1353	1176	945	742	619	564	532	500
165	1036	996	908	797	703	639	608	591	611
175	756	749	734	712	688	665	648	636	653
180	688	688	688	688	688	688	688	688	688

**ZONAL LUMENS**

	Lumens
Zone	
90	
90-100	272
100-110	644
110-120	755
120-130	756
130-140	700
140-150	581
150-160	405
160-170	221
170-180	68
180	