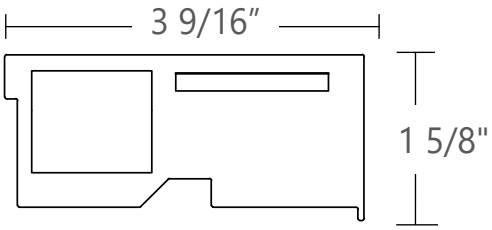
CovePerfekt™ | CEILING LO-OUTPUT

Project _____

Type _____

Notes _____



PERFORMANCE/LINEAR FT AT 3000K AND 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY*
300 lm/ft	3.1 W/ft	98 lm/W
400 lm/ft	4.2 W/ft	95 lm/W
500 lm/ft	5.4 W/ft	93 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

CCL		SL									
PRODUCT ID		**LIGHT ENGINE**		**NOMINAL LUMENS/FT**		**CRI**		**COLOR TEMP.**	
CCL	Cove LED ceiling LO-output	**SL**	surroundlite	**300**	300 lm/ft - Minimum	**80**	80 CRI	**27**	2700 K
				500	500 lm/ft - Maximum	**90**	90 CRI	**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.				Consult Axitune spec sheet for Axis color technology options	

		W							
COVE OPENING FT (MM)		**FINISH**		**VOLTAGE**		**DRIVER**		**CIRCUITS**	
CL(#)	Cove linear	**W**	white	**120**	120 V	**DP**	dimming (0-10V) 1%	**1**	1 circuit
CP(#)	Cove pattern			**277**	277 V	**LT**	Lutron (1)	**2**	2 circuits (3)
				347	347 V	**BI**	bi-level dimming	**+E(#)**	emergency section (4)
				UNV	universal	**O**	other (2)	**+NL(#)**	night light section (4)
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 Consult Axitune spec sheet for Axis color driver options		(3) Cannot combine with E or NL (4) Specify quantity	

MOUNTING/SUSPENSION		**BATTERY (OPTIONAL)**		**OTHER (OPTIONAL)**		**REMOTE IC CONTROLS (OPTIONAL)**		**CUSTOM (OPTIONAL)**	
AC	Armstrong Axiom Cove (5)	**B#**	battery pack	**F**	fuse	**DS#**	daylight sensor	**C**	custom
C	Other Cove			**CP**	Chicago plenum*	**OS#**	occupancy sensor		
						DOS#	daylight & occupancy sensor		
						ENR#	Enlighted remote (6)		
						WC#	wireless control dimming		
(5) Ordered separately from Armstrong.		For minimum 4' long fixture only Not available with 347V 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.		(6) Please consult factory Specify quantity. Remote only. See integrated controls guide for more details.		Please specify	

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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...

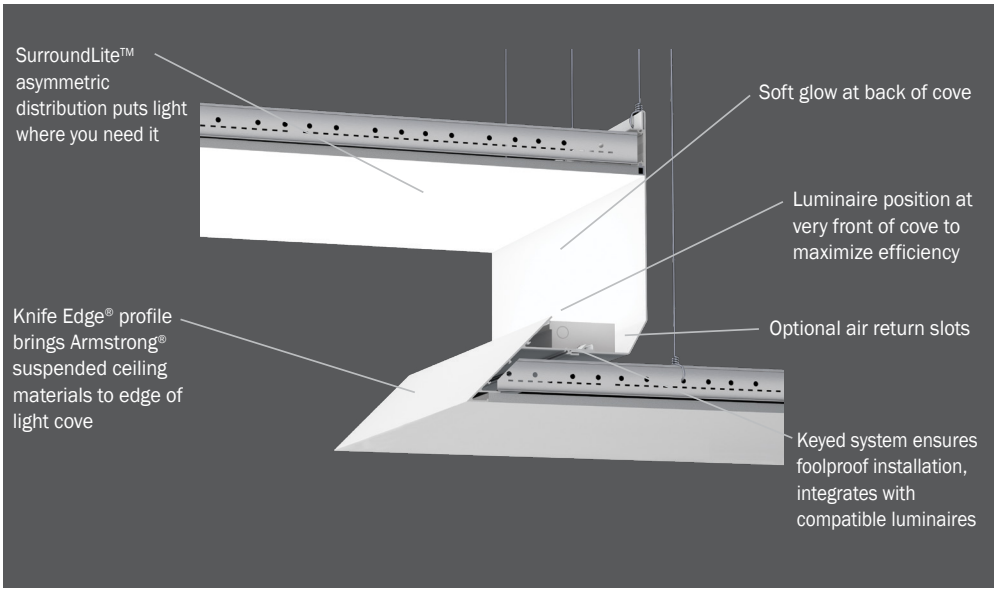
For more information on Axiom® Indirect Light Coves, go to armstrong.com/axiomlightcoves

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.

ⓘ Axiom® Indirect Light Coves ordered separately from Armstrong .

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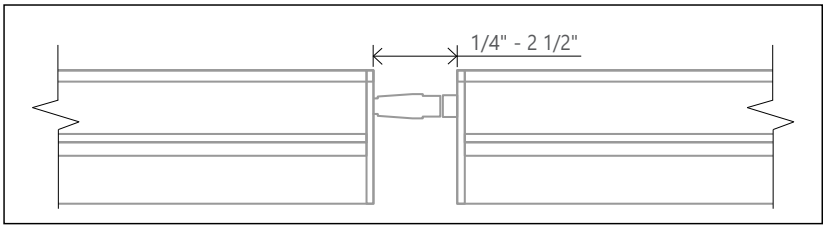
INDIRECT LIGHT COVE OPENING

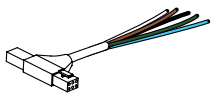
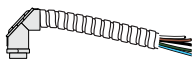
Axis will determine the best fixture length combination to fill the Cove opening.

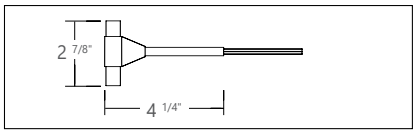
CABLE CONNECTION - LENGTH RANGE



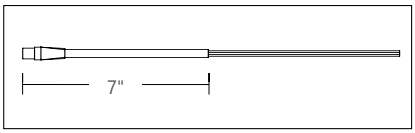
ACCESSORIES

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

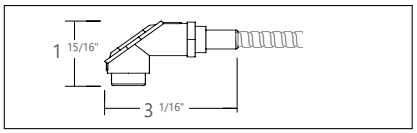
	Item Number	Item	Housing Color	Dimensions	Description		
STD	**WR14443**	T-connector	White	2 7/8" x 4 1/4"	End feed or middle feed connector from cove fixture to junction box located behind the cove		Feed up to 100' @ 120V 200' @ 277V
STD	**WR14433**	Panel mount female connector	White	22" (length)	End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



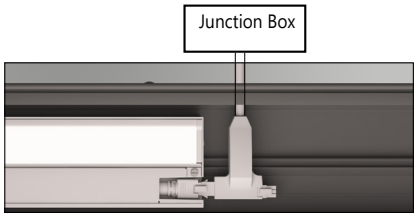
T-connector



Straight connector

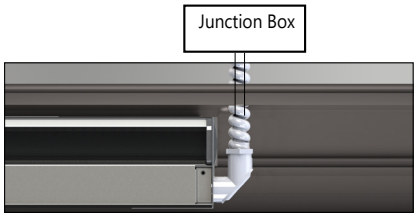


90°-connector + FMT, CCEA



T - End Power Feed

Straight End - Power Feed



T - End Power Feed

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

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LIGHT GUIDE

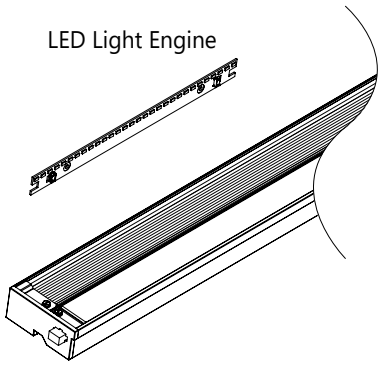
High precision light guide made of PMMA material, allows distribution of controlled light in all 3-dimensions to put light on both vertical and horizontal planes within the space. Patented lightguide design featuring molecular optics and precision-coupled optic components yield a high efficiency luminaire. 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.

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 under 'Downloads' tab.

LED Light Engine



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 under 'Downloads' tab.

WEIGHT

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

FINISH

White paint.

APPROVALS

Certified to UL and CSA standards
Suitable for damp locations.

LED SYSTEM

CRI	Minimum 80 or 90 color rendering index
CCT	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.
LED life	Minimum 50,000h with 85% of lumen maintenance in 25^{0}C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat spreader to maximize life.
Environment	Dry and damp rated in operating ambient temperatures of 0-40^{0}C (32-104F)

CONSTRUCTION

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

ELECTRICAL

Lutron driver*	LDE1 - EcoSystem H-Series (1%) LDE5 - EcoSystem 5-Series (5%) LTE - Hi-Lume® A-series 2Wires Forward Phase (1%) *Consult factory
Other drivers	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
Emergency	Integral emergency battery pack or emergency circuit optional.
Input Voltage	120V, 277V, 347V, UNV.

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.

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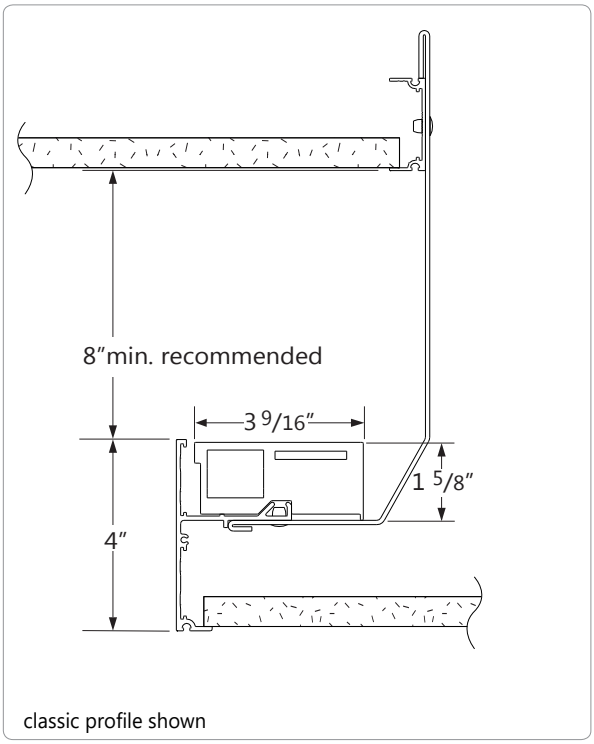
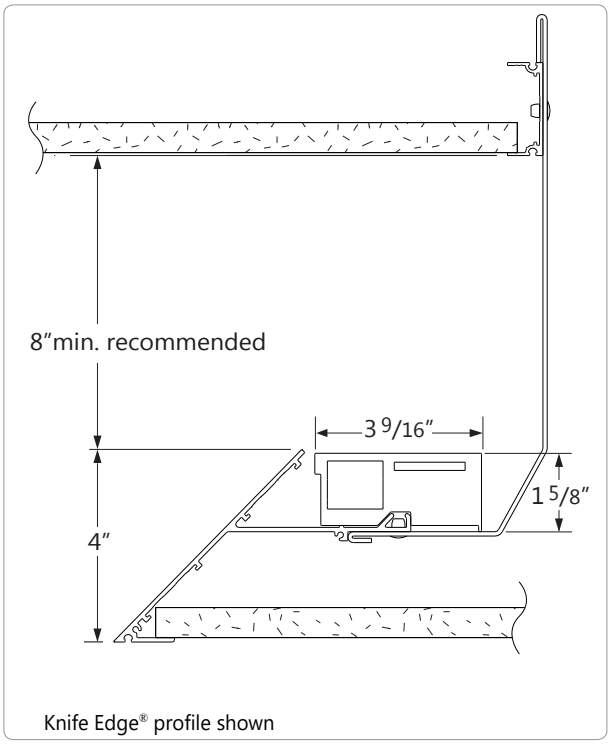
Armstrong and other cove ceiling systems provided by others.

CEILING MOUNTING OPTIONS



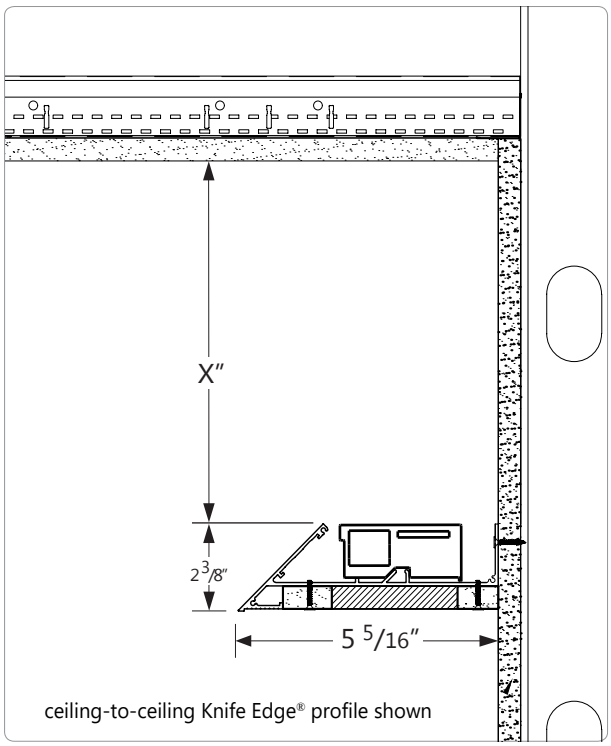
classic profile shown

AC ARMSTRONG AXIOM COVE



Knife Edge® profile shown

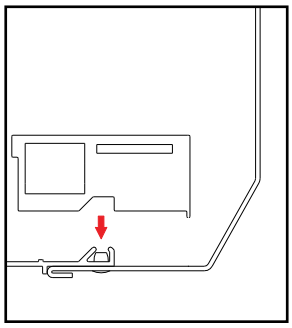
AC ARMSTRONG AXIOM COVE



ceiling-to-ceiling Knife Edge® profile shown

AC ARMSTRONG AXIOM INDIRECT LIGHT LEDGE

WITH ARMSTRONG CEILING



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

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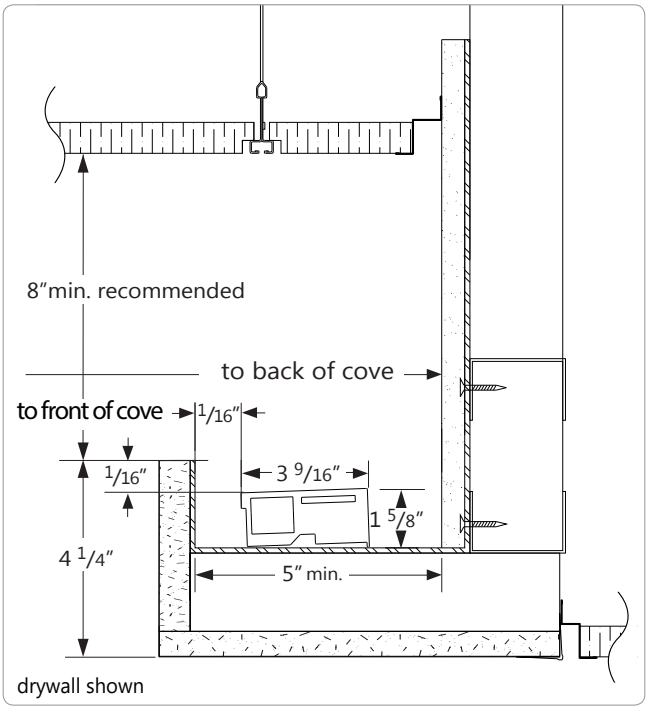
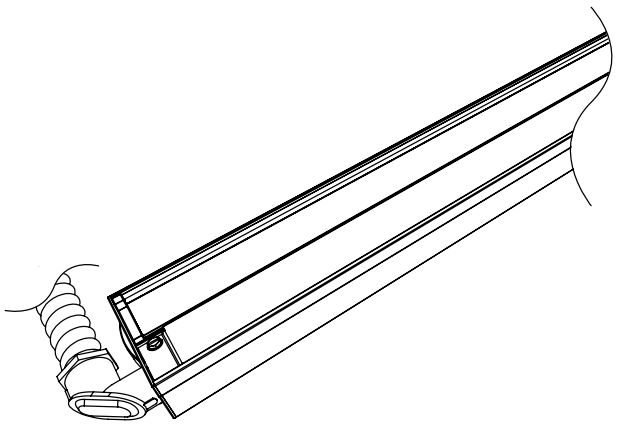


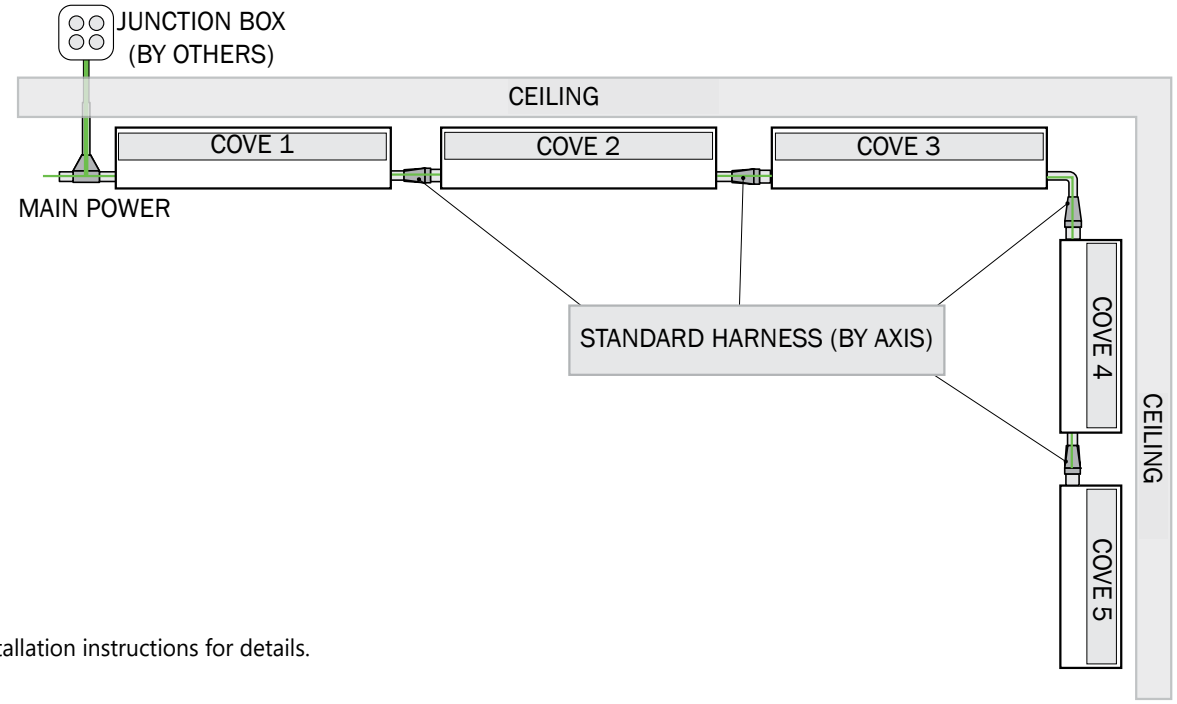
C **OTHER COVE**

● *CHICAGO PLENUM OPTION*



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

● *STANDARD HARNESS OPTION*



ⓘ See installation instructions for details.

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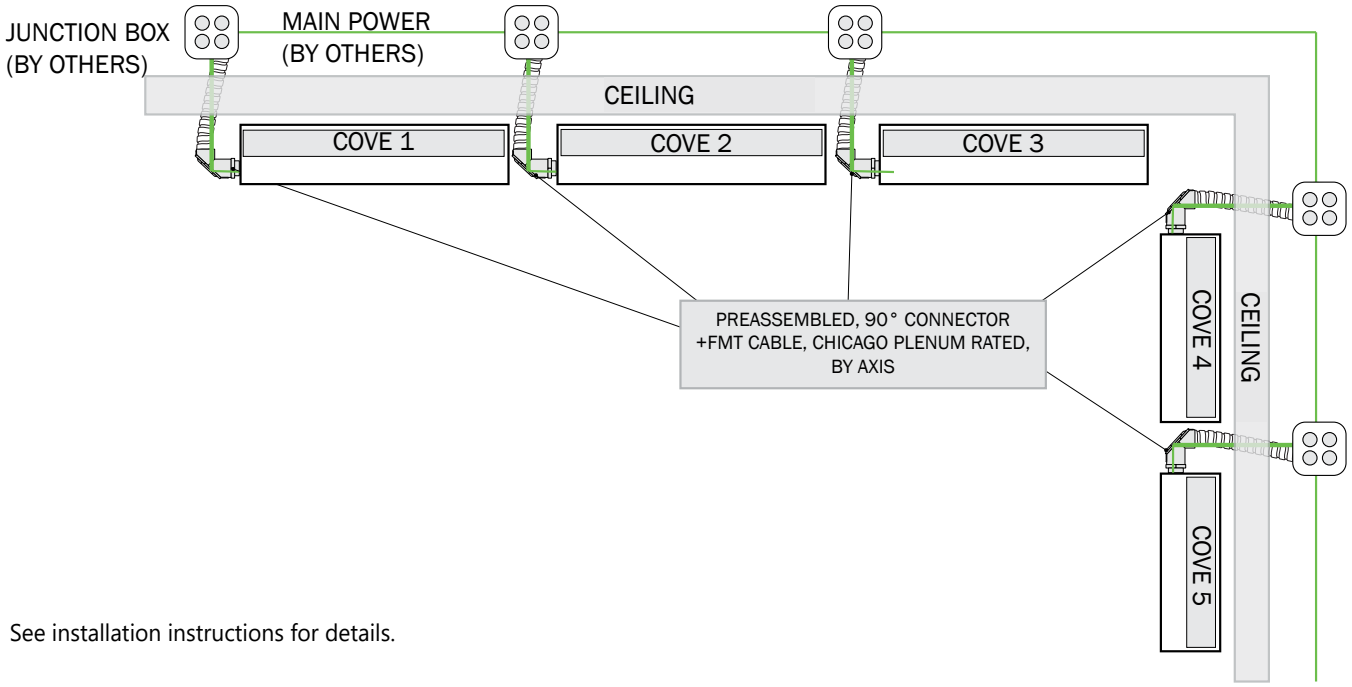
CHICAGO PLENUM OPTION



See installation instructions for details.

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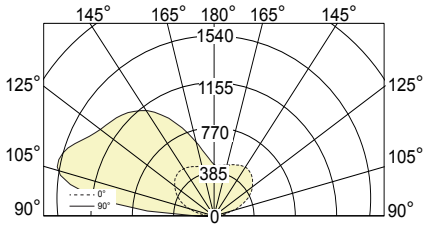
PHOTOMETRIC DATA

NO SHIELDING (NO)

CCL-SL-100/0-300-80-35-4-W

100% up at 300 lm/ft

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles								
Vertical Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
90	25	34	24	13	5	1	1	1	1
95	348	306	129	58	29	23	14	11	1
105	650	499	236	142	98	63	39	32	26
115	629	497	327	215	155	95	55	43	39
125	548	492	390	273	190	120	66	50	49
135	517	487	413	304	213	143	96	64	55
145	475	451	389	296	214	159	131	107	84
155	390	369	321	258	202	169	154	145	136
165	283	272	248	217	192	174	166	161	167
175	206	204	200	194	188	181	177	174	178
180	188	188	188	188	188	188	188	188	188

ZONAL LUMENS

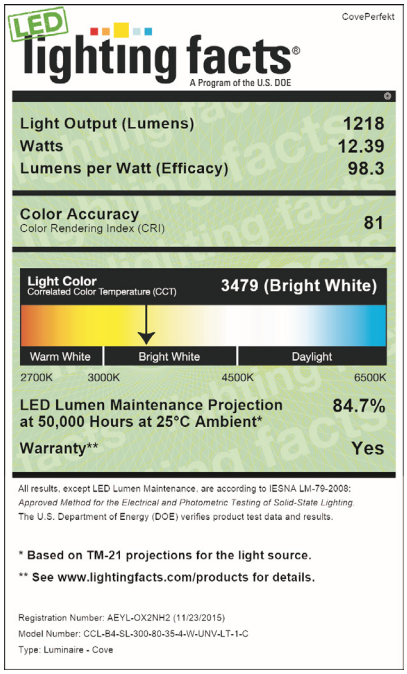
Zone	Lumens
90	
90-100	74
100-110	176
110-120	206
120-130	206
130-140	191
140-150	158
150-160	111
160-170	60
170-180	18
180	

Lumen/ft up: 300 lm/ft
Total Lumens: 1200 lm (for 4ft)
Input Watts: 12.3 W
Efficacy: 98 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: CCL-SL-100-0-300-80-35-4-W.IES

TESTED ACCORDING TO IES LM-79-2008



All IES files are available for download at: www.axislighting.com

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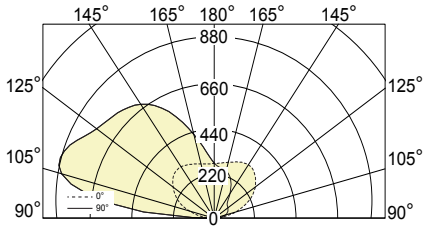
PHOTOMETRIC DATA

NO SHIELDING (NO)

CCL-SL-100/0-400-80-35-4-W

100% up at 400 lm/ft

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles								
Vertical Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
90	34	46	32	18	6	2	1	2	2
95	464	408	172	78	39	31	19	14	2
105	867	666	315	189	130	84	52	42	34
115	838	663	436	287	206	126	73	57	53
125	731	656	520	364	253	160	88	67	65
135	689	650	551	406	284	190	128	85	73
145	634	602	518	395	286	212	174	143	112
155	519	492	428	344	270	225	205	193	182
165	377	362	330	290	256	232	221	215	222
175	275	272	267	259	250	242	236	231	238
180	250	250	250	250	250	250	250	250	250

ZONAL LUMENS

	Lumens
Zone	
90	
90-100	99
100-110	234
110-120	274
120-130	275
130-140	254
140-150	211
150-160	147
160-170	80
170-180	25
180	

Lumen/ft up: 400 lm/ft
Total Lumens: 1600 lm (for 4ft)
Input Watts: 16.8 W
Efficacy: 95 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: CCL-SL-100-0-400-80-35-4-W.IES

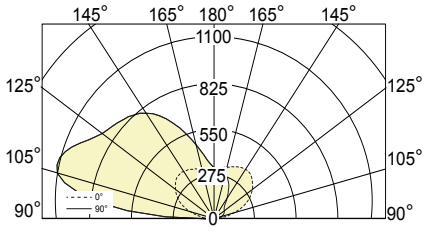
TESTED ACCORDING TO IES LM-79-2008

NO SHIELDING (NO)

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

100% up at 500 lm/ft

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles								
Vertical Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
90	42	57	40	22	8	2	2	2	2
95	580	511	214	97	48	39	23	18	2
105	1084	832	393	237	163	105	65	53	43
115	1048	828	544	359	258	158	91	71	66
125	914	820	650	455	317	200	110	84	81
135	862	812	689	507	354	238	160	107	92
145	792	752	648	494	357	265	218	179	140
155	649	615	534	430	337	281	256	242	227
165	471	453	413	362	319	291	276	269	278
175	344	341	334	323	313	302	295	289	297
180	313	313	313	313	313	313	313	313	313

ZONAL LUMENS

	Lumens
Zone	
90	
90-100	124
100-110	293
110-120	343
120-130	343
130-140	318
140-150	264
150-160	184
160-170	100
170-180	31
180	

Lumen/ft up: 500 lm/ft
Total Lumens: 2000 lm (for 4ft)
Input Watts: 21.5 W
Efficacy: 93 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: CCL-SL-100-0-500-80-35-4-W.IES

TESTED ACCORDING TO IES LM-79-2008

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