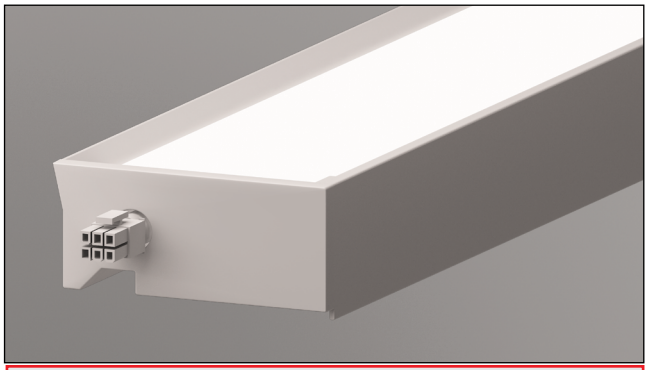
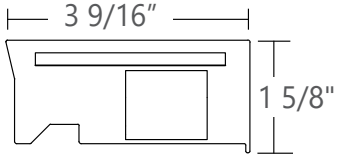
CovePerfekt™ | WALL LO-OUTPUT



IMPORTANT! - All cove opening patterns and length must be submitted with drawings indicating dimensions and light direction.



Project _____

Type _____

Notes _____

PERFORMANCE/LINEAR FT AT 3000K AND 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY*
300 lm/ft	2.8 W/ft	108 lm/W
500 lm/ft	4.6 W/ft	108 lm/W
600 lm/ft	5.6 W/ft	108 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 Tunable White | PoE | CONTROL SENSORS | bios ILLUMINATED | cULus Listed | LED BOARD & DRIVER 5 YEAR LUMINAIRE WARRANTY | LED lighting facts LED Product Partner | CCEA APPROVED | Perfekt™ | SurroundLite™

Ordering Guide

CCWL

PRODUCT ID	LIGHT DIRECTION	COVE OPENING PATTERNS AND LENGTH	NOMINAL LUMENS/FT	CRI
CCWL Cove Wall for LO-output	**I** inside lit **O** outside lit	**CL(L)** Cove linear (length) **S(L)** square shape (length) **R(LxL)** rectangular shape (length) **U(LxLxL)** U shape (length) **L(LxL)** L shape (length) **FF(L)** total pattern length	**300** 300 lm/ft - Minimum **500** 500 lm/ft - Maximum	**80** 80 CRI **90** 90 CRI*
	* For Cove Linear Length, please use Inside Lit option	Cove Perfekt standard lengths are 2-12 feet in increments of 1 foot.	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.	* Maximum 1000 lumens/ft; Not available with BIOS.

All cove opening patterns and length must be submitted with drawings indicating dimensions and light direction.

W

COLOR TEMP. (choose one)	FINISH	VOLTAGE	DRIVER	CIRCUITS
27 2700 K **30** 3000 K **35** 3500 K **40** 4000 K **B30** 3000 K - BIOS* **B35** 3500 K - BIOS* **B40** 4000 K - BIOS* **TW2750** 2700-5000 K - Tunable White **TW2765** 2700-6500 K - Tunable White	**W** white	**120** 120 V **277** 277 V **347** 347 V **UNV** universal **DC** low voltage*	**DP** dimming (0-10V) 1% **LT(#)** Lutron* **BI** bi-level dimming **O(#)** other** **DPB(#)** dimming (0-10V) 1% with BIOS* **TW(#)** tunable white drivers* **POE(#)** POE drivers*	**1** 1 circuit **2** 2 circuits * **+E(#)** emergency section** **+NL(#)** night light section**
Consult Axitune technical sheet for more information of color technology. *Consult BIOS guide for more information on BIOS technology		* Only available with POE drivers.	*See page 4 to specify system **Please consult factory; see page 5 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. 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. Consult factory for Tunable White. Not available with DPB (DYN) driver for BIOS with Dynamic Spectrum.	Please specify

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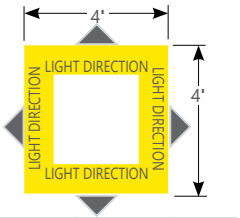
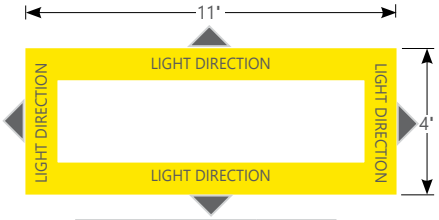


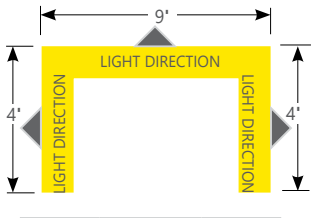
CCWL	O	S[4]
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Square 90° Corner Pattern



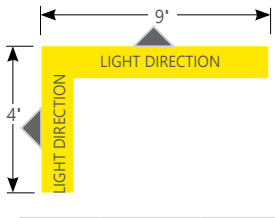
CCWL	O	R(11x4)
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Rectangle 90° Corner Pattern



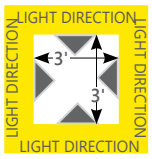
CCWL	O	U(4x9x4)
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Open Shape 90° Corner Pattern



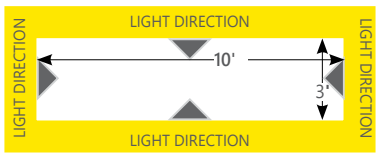
CCWL	O	L(9x4)
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Open Shape 90° Corner Pattern



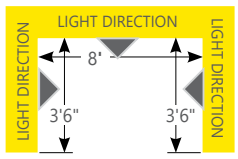
CCWL	I	S[3]
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Square 90° Corner Pattern



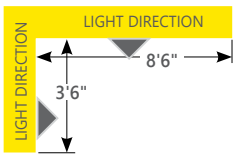
CCWL	I	R(10x3)
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Rectangle 90° Corner Pattern



CCWL	I	U(3'6"x9x3'6")
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Open Shape 90° Corner Pattern



CCWL	I	L(8'6"x3'6")
PRODUCT ID	LIGHT DIRECTION	PATTERNS

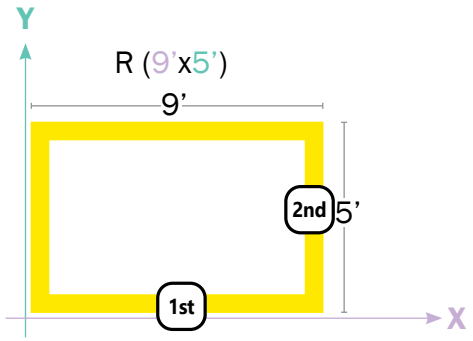
TOP VIEW - Open Shape 90° Corner Pattern

How to Specify 90 degree Corners and Patterns

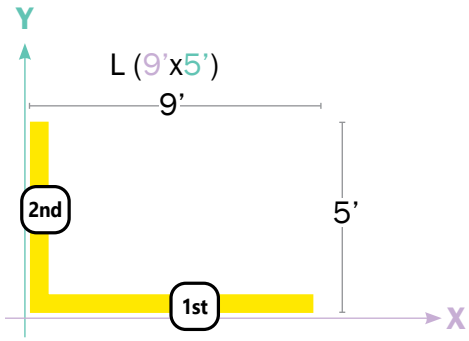
Example

! Measurements for Cove Perfekt should be made along the front side of the Cove opening.

Defining R - Rectangular shape

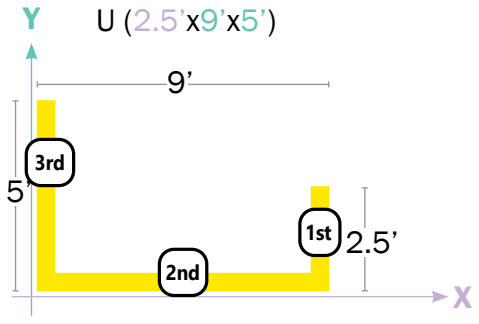


Defining L shape



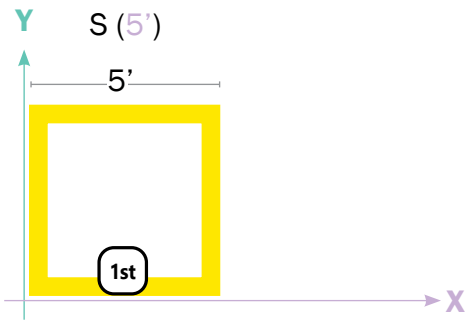
Note: The first number will always define the width, the second - the length.

Defining U shape



Note: The first number will always define the right arm length, the second - the width, and the third - the left arm length.

Defining S - Square shape



Note: The number will define the width. (All sides are the same length).

IMPORTANT! - Corner illumination is achieved by Surroundlite™ technology, NOT by corner segments. Luminaires are connected by Quick connect cables, so any corner degree is possible.

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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...

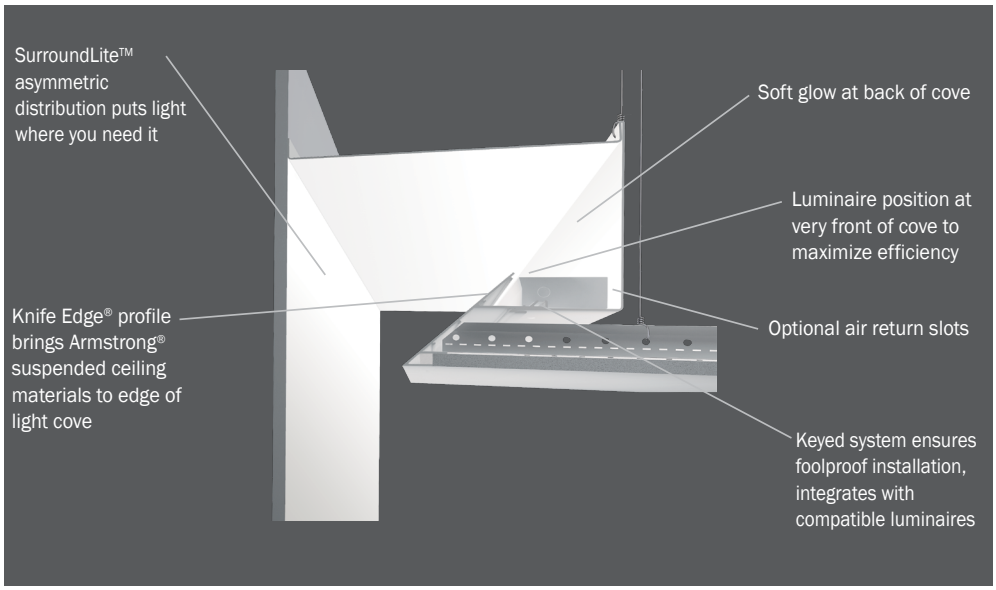
For more information on Axiom® Indirect Light Coves, go to armstrong.com/axiomlightcoves

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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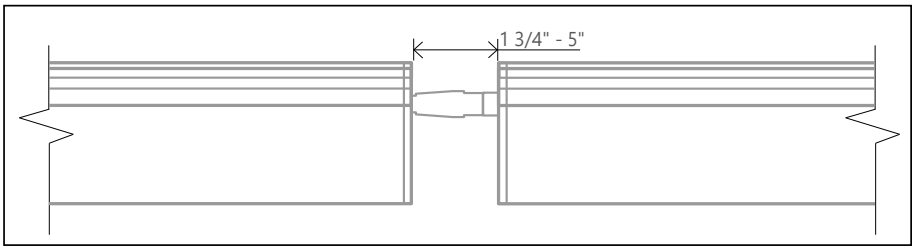
Indirect light Cove opening

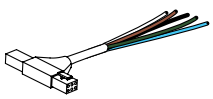
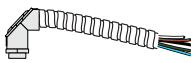
Axis will determine the best fixture length combination to fill the Cove opening.

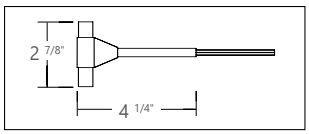
CABLE CONNECTION - LENGTH RANGE



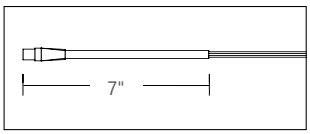
ACCESSORIES

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

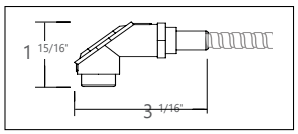
	Item Number	Item	Housing Color	Dimensions	Description		
STD	**WR14443**	T-connector	White	2 7/8 " x 4 1/4 "	End feed or middle feed connector from cove fixture to junction box located behind the cove		Feed up to 100' @ 120V 200' @ 277V
STD	**WR14433**	Panel mount female connector	White	22" (length)	End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



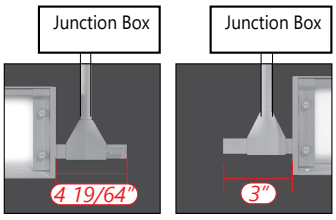
T-connector



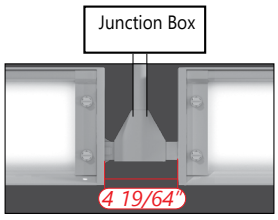
Straight connector



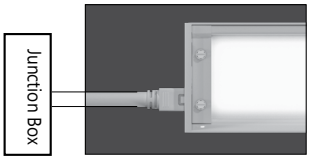
90°-connector + FMT, CCEA



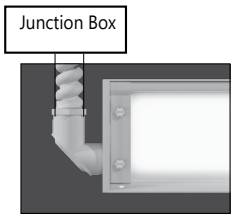
T - End Power Feed



T - Middle 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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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** - Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black **LTEA** - Hi-lume 1% 2-wire (120V forward phase only) *Consult factory
Other drivers**	**DALI** - Digital Addressable Lighting Interface **DMX** - Digital Multiplex **Xitanium SR** - For wireless sensor
BIOS DPB drivers*	**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 BI SkyBlue® with Bio-Dimming™ enabled 100% to 50%, ligl output dimming from 49% to 1%.
Tunable White TW drivers*	**DALIDT6** - DALI Type 6 (Two DALI Addresses) **DALIDT8** - DALI Type 8 (One DALI Address) **LTTW** - Lutron T-Series Tunable White
Power over Ethernet POE drivers* UL2108 certified for integral or remote driver	MOLEX IGOR SMARTENGINE **O** - Other (Consult factory)
Emergency	Integral emergency battery pack or emergency circuit optional.
Input Voltage	120V, 277V, 347V, UNV, DC.

***Choose driver from available options.**

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

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.

LED SYSTEM

CRI	Minimum 80 or 90 color rendering index.
CRI BIOS	Minimum 80 color rendering index with R9>75 for all CCTs.
CCT Single Color	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.
CCT BIOS	BIOS Static (STC) Choice of 3000K, 3500K and 4000K. BIOS SkyBlue® Dynamic (DYN) Choice of 3000K, 3500K, and 4000K with Bio-Dimming™ Consult BIOS guide for more information on BIOS technology.
CCT Axitune Systems	Consult Axitune technical sheet for more information on color technology.
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 sink to maximize life.
Environment	Dry and damp rated in operating ambient temperatures of 0-40^{0}C (32-104F).

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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LIGHT GUIDE

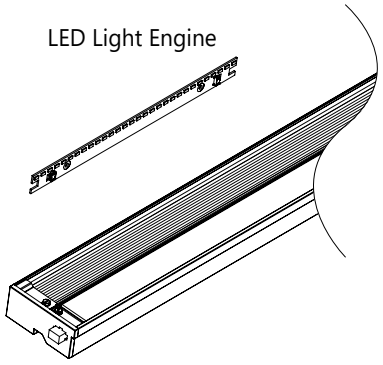
High precision light guide made of PMMA material, allows distribution of controlled light in all 3-dimensions to put light on both vertical and horizontal planes within the space. Patented lightguide design featuring molecular optics and precision-coupled optic components yield a high efficiency luminaire.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

Cove Perfekt standard lengths are 1-12 feet. For cove openings greater than 12 ft system runs are available, and would be a combination of standard lengths luminaires, layed out to fit any cove opening shape and interconnected using Axis Quick Connect system.
Fixture lengths will be decided by the factory based on cove opening drafts, specified by the project designer.
For more informationon systems and joining, please refer to the COVE installation sheets available at www.axislighting.com under 'Downloads' tab.

APPROVALS

Certified to UL and CSA standards
Suitable for damp locations.

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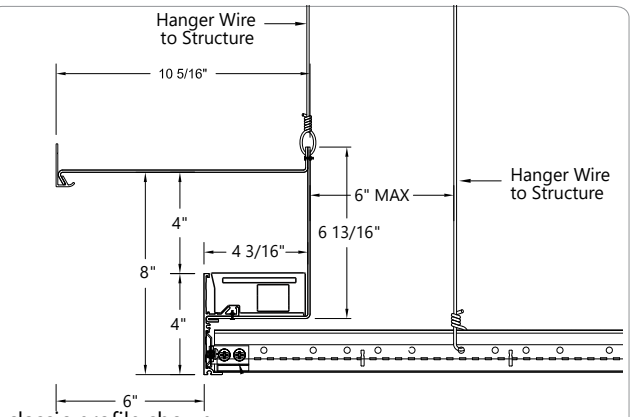
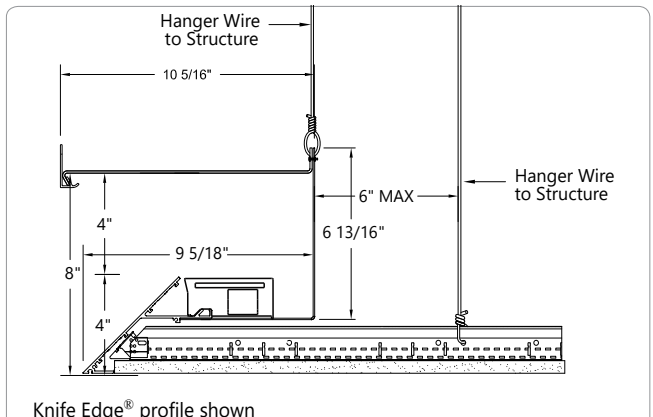
Armstrong and other cove ceiling systems provided by others.

CEILING MOUNTING OPTIONS



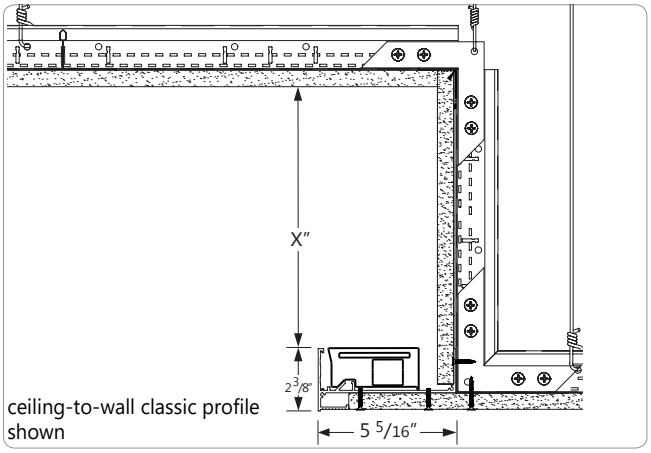
classic profile shown

AC ARMSTRONG AXIOM COVE



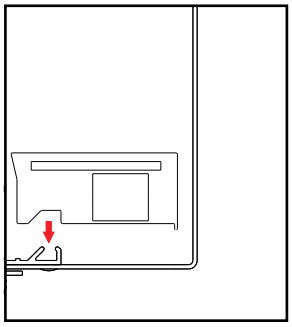
Knife Edge® profile shown

AC ARMSTRONG AXIOM COVE

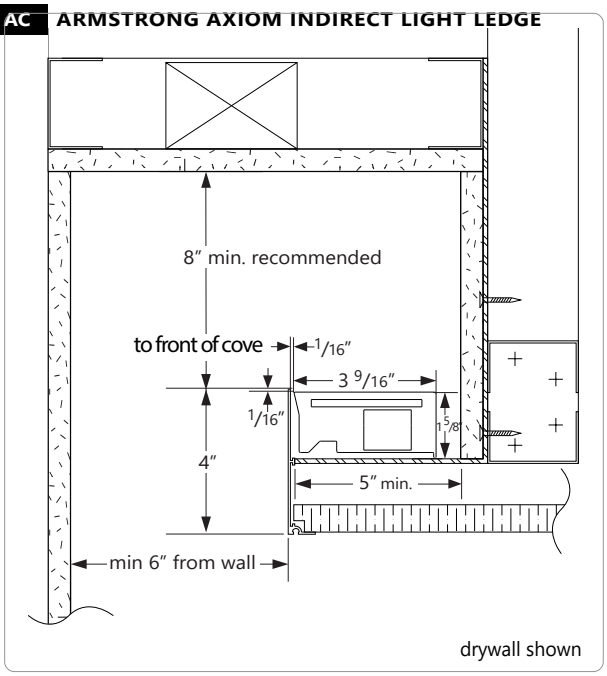


ceiling-to-wall classic profile shown

WITH ARMSTRONG CEILING



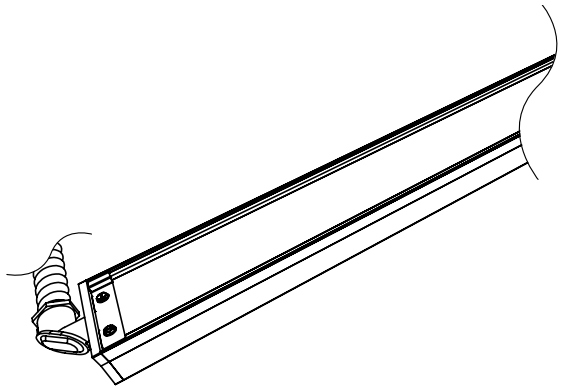
AC ARMSTRONG AXIOM INDIRECT LIGHT LEDGE



drywall shown

C OTHER COVE

CHICAGO PLENUM OPTION



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

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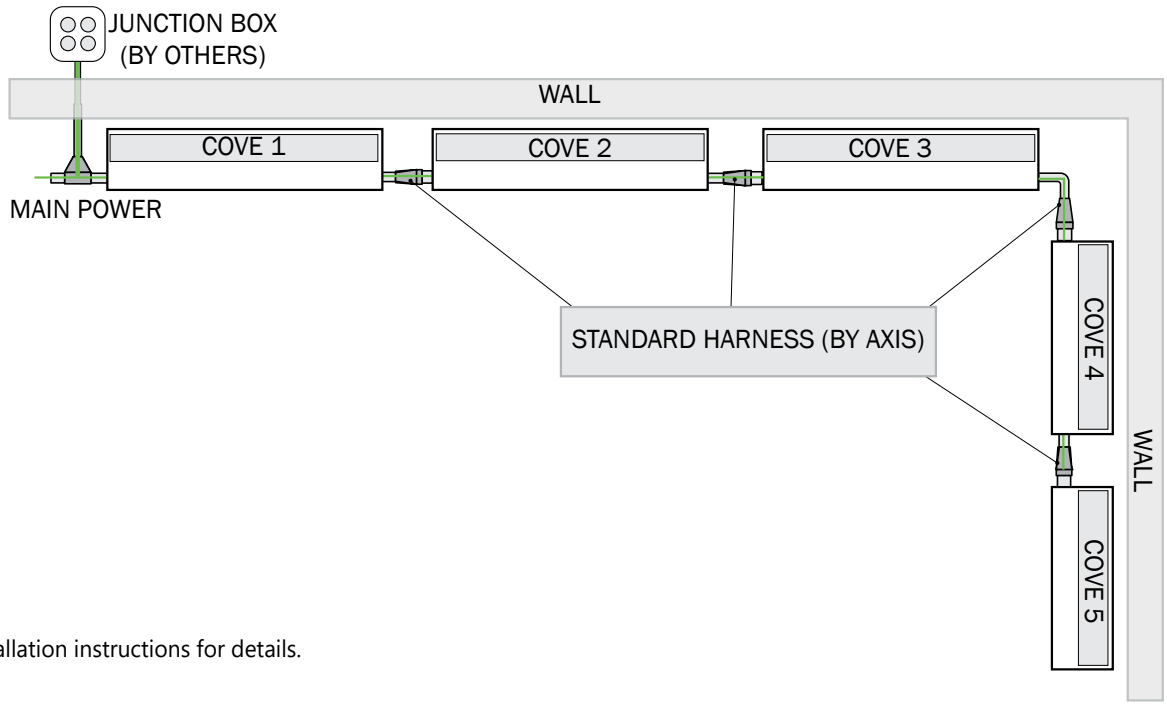
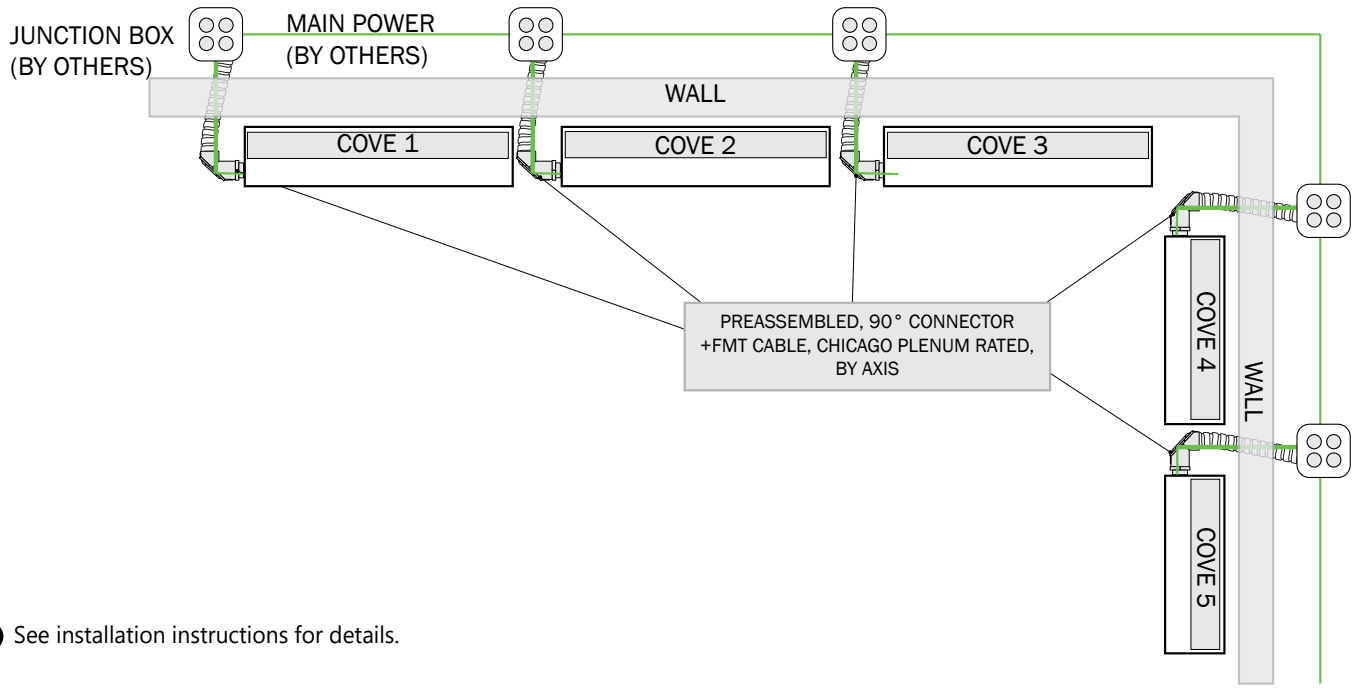
● STANDARD HARNESS OPTION



ⓘ See installation instructions for details.

● CHICAGO PLENUM OPTION



ⓘ See installation instructions for details.

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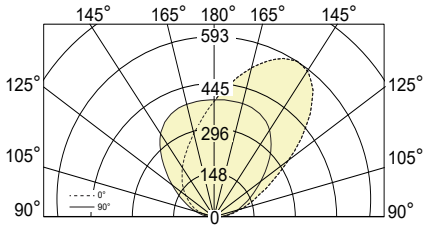
● PHOTOMETRIC DATA

NO SHIELDING (NO)

CCWL-SL-300-80-35-CL-4

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	1	1	0	0	0	1	1	1	0
95	24	24	24	22	22	24	25	26	23
105	75	81	82	86	87	87	83	83	73
115	129	144	159	168	175	170	160	146	126
125	194	230	266	302	316	303	267	232	191
135	276	337	400	458	484	458	400	338	271
145	344	419	496	559	584	557	494	418	341
155	378	445	511	560	579	557	507	443	376
165	388	432	473	501	512	498	469	430	387
175	388	403	416	425	428	422	414	402	388
180	387	387	387	387	387	387	387	387	387

ZONAL LUMENS

Zone	Lumens
90	
90-100	22
100-110	75
110-120	130
120-130	186
130-140	229
140-150	228
150-160	181
160-170	111
170-180	37
180	

Lumen/ft up: 300 lm/ft
Total Lumens: 1201 lm (for 4ft)
Input Watts: 11.1 W
Efficacy: 108 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-300-80-35-CL-4.IES

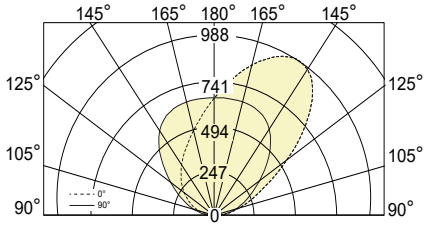
TESTED ACCORDING TO IES LM-79-2008

NO SHIELDING (NO)

CCWL-SL-500-80-35-CL-4

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	1	1	1	1	1	1	1	1	1
95	40	40	39	37	36	39	42	43	38
105	125	136	136	143	145	145	138	139	121
115	214	241	265	280	291	283	267	244	209
125	324	383	444	503	526	505	445	386	318
135	459	561	667	764	806	763	667	563	452
145	574	698	827	932	974	928	823	697	568
155	630	742	851	934	965	928	845	739	627
165	646	720	788	836	853	831	782	717	645
175	647	672	694	708	713	704	690	670	647
180	645	645	645	645	645	645	645	645	645

ZONAL LUMENS

Zone	Lumens
90	
90-100	35
100-110	125
110-120	217
120-130	310
130-140	382
140-150	381
150-160	302
160-170	186
170-180	62
180	

Lumen/ft up: 500 lm/ft
Total Lumens: 2000 lm (for 4ft)
Input Watts: 18.5 W
Efficacy: 108 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-500-80-35-CL-4.IES

TESTED ACCORDING TO IES LM-79-2008

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

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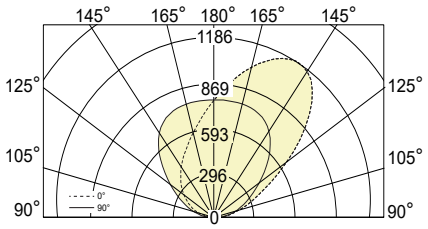
● PHOTOMETRIC DATA

NO SHIELDING (NO)

CCWL-SL-600-80-35-CL-4

100% up at 600 lm/ft

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles								
Vertical Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
90	1	1	1	1	1	1	1	1	1
95	48	48	47	45	43	47	50	52	46
105	150	163	163	171	174	174	166	166	146
115	257	289	318	337	350	340	320	292	251
125	389	459	532	604	631	606	534	464	381
135	551	674	801	916	968	915	800	676	543
145	689	838	993	1118	1169	1114	988	836	681
155	756	890	1021	1120	1157	1114	1014	886	752
165	776	864	945	1003	1023	997	938	860	773
175	777	807	833	850	855	845	828	804	776
180	774	774	774	774	774	774	774	774	774

ZONAL LUMENS

Zone	Lumens
90	
90-100	42
100-110	151
110-120	260
120-130	372
130-140	458
140-150	458
150-160	363
160-170	223
170-180	74
180	

Lumen/ft up: 600 lm/ft
Total Lumens: 2400 lm (for 4ft)
Input Watts: 22.2 W
Efficacy: 108 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-600-80-35-CL-4.IES

TESTED ACCORDING TO IES LM-79-2008

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***IMPORTANT** – All cove opening patterns and length must be submitted with drawings indicating dimensions and light direction.*