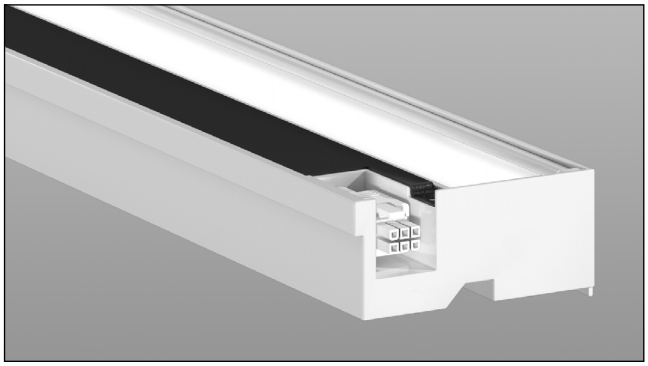
CovePerfekt™ | CEILING



Project _____

Type _____

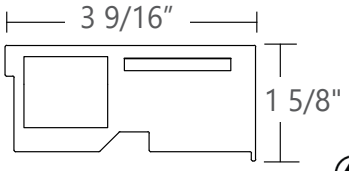
Notes _____

PERFORMANCE/LINEAR FT AT 3000K AND 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY*
300 lm/ft	2.5 W/ft	119 lm/W
600 lm/ft	5.1 W/ft	117 lm/W
700 lm/ft	6 W/ft	116 lm/W
1100 lm/ft	9.8 W/ft	112 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

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



Ordering Guide

CC

PRODUCT ID	OUTPUT	LIGHT DIRECTION	COVE OPENING PATTERNS AND LENGTH	NOMINAL LUMENS/FT	CRI
CC Ceiling Cove	**H** HI-output **L** 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 - Min **699** 699 lm/ft - Max (LO-OUTPUT) **700** 700 lm/ft - Min **1100** 1100 lm/ft - Max (HI-OUTPUT)	**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 **BTW3527** 3500-2700 K - Tunable BIOS **BTW4027** 4000-2700 K - Tunable BIOS	**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	**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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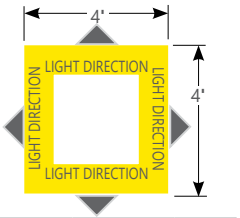
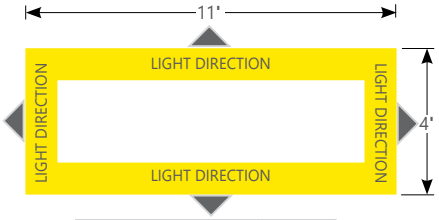


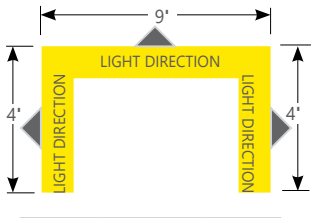
CCL	O	S[4]
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Square 90° Corner Pattern



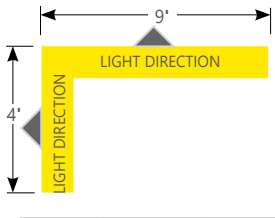
CCL	O	R(11x4)
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Rectangle 90° Corner Pattern



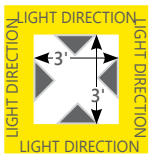
CCL	O	U(4x9x4)
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Open Shape 90° Corner Pattern



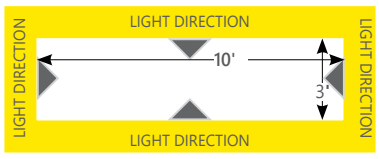
CCL	O	L(9x4)
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Open Shape 90° Corner Pattern



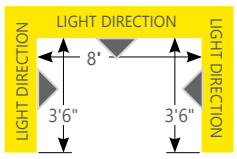
CCL	I	S[3]
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Square 90° Corner Pattern



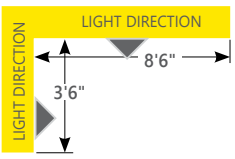
CCL	I	R(10x3)
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Rectangle 90° Corner Pattern



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

TOP VIEW - Open Shape 90° Corner Pattern



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

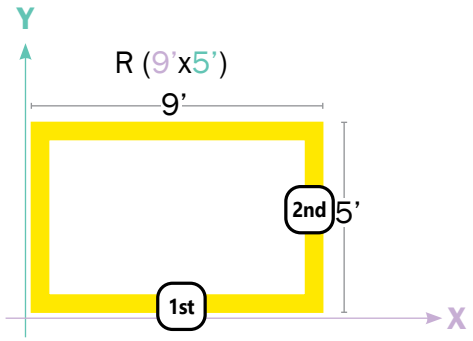
TOP VIEW - Open Shape 90° Corner Pattern

How to Specify 90 degree Corners and Patterns

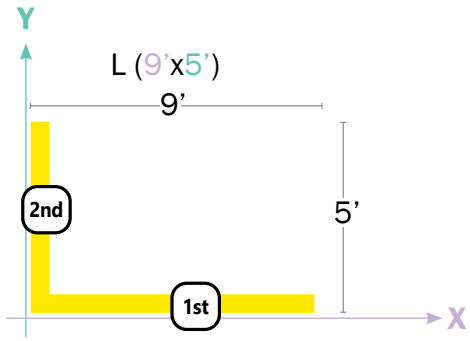
Example

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

Defining R - Rectangular shape

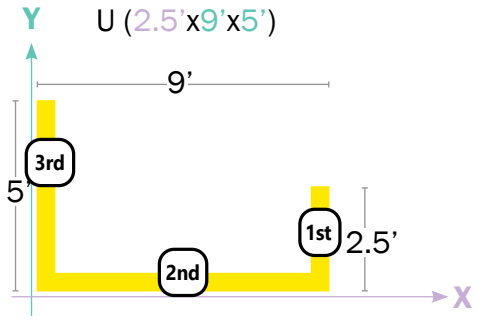


Defining L shape



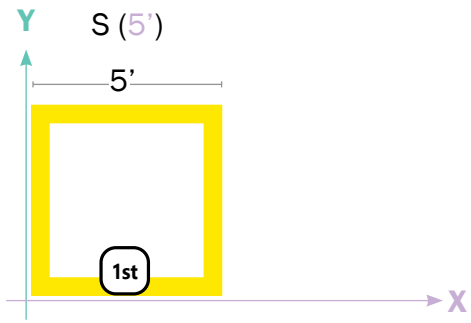
Note: The first number will always define the width, the second - the length.

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...

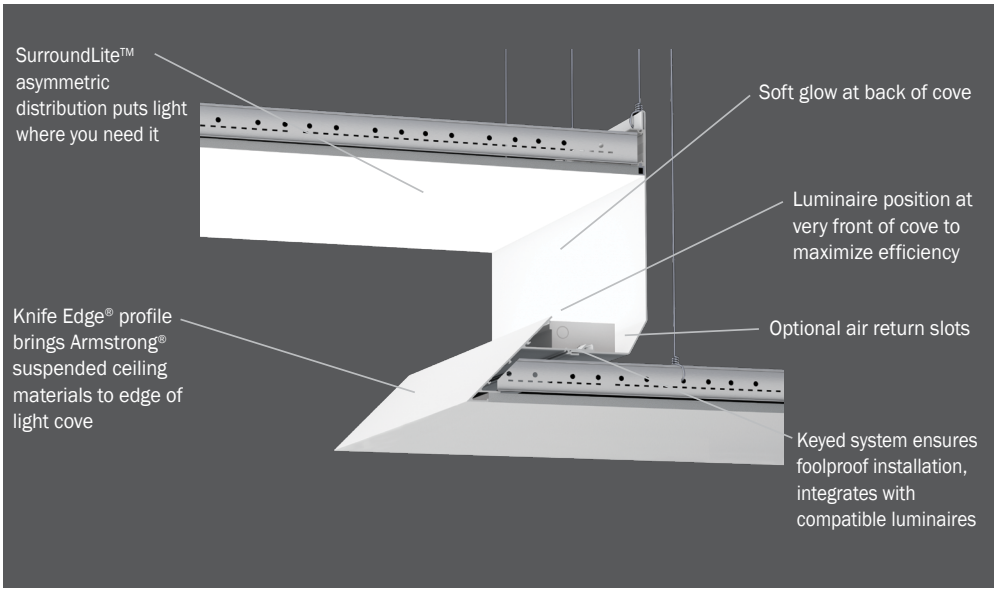
For more information on Axiom® Indirect Light Coves, go to armstrong.com/axiomlightcoves

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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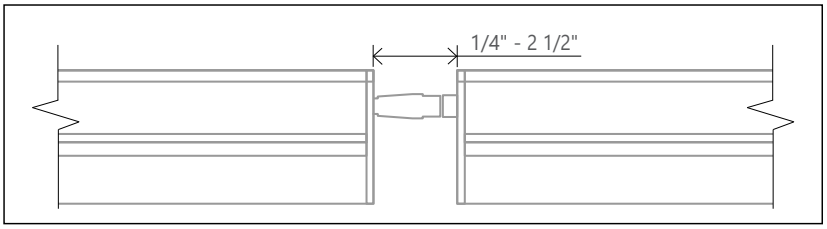
INDIRECT LIGHT COVE OPENING

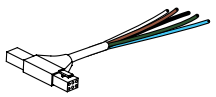
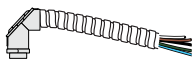
Axis will determine the best fixture length combination to fill the Cove opening.

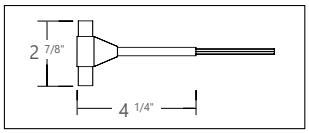
CABLE CONNECTION - LENGTH RANGE



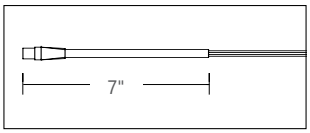
ACCESSORIES

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

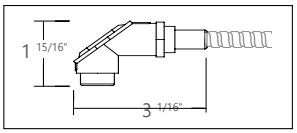
	Item Number	Item	Housing Color	Dimensions	Description		
STD	**WR14443**	T-connector	White	2 7/8" x 4 1/4"	End feed or middle feed connector from cove fixture to junction box located behind the cove		Feed up to 100' @ 120V 200' @ 277V
STD	**WR14433**	Panel mount female connector	White	22" (length)	End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



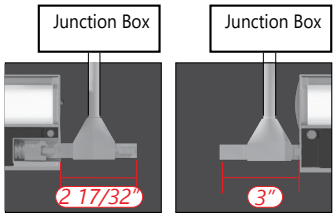
T-connector



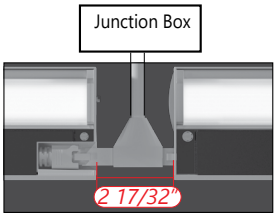
Straight connector



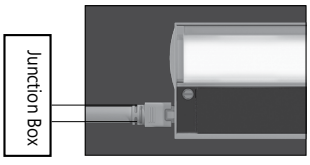
90°-connector + FMT, CCEA



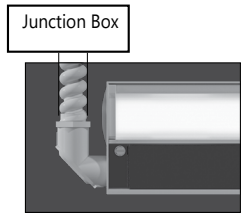
T - End Power Feed



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
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)
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™ BIOS Tunable White (BTW) Choice of 4000-2700K and 3500-2700K; does not use a bio-dimmer, it uses TW drivers, which allow independent control of CCT and intensity; e.g., BTW4027 provides combined SkyBlue + white light at 4000K, SkyBlue is removed at 2700K. Light output can be adjusted for each CCT. 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°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 for indoor use only in operating ambient temperatures of 0-40°C (32-104F).

WARRANTY

Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.

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LIGHT GUIDE

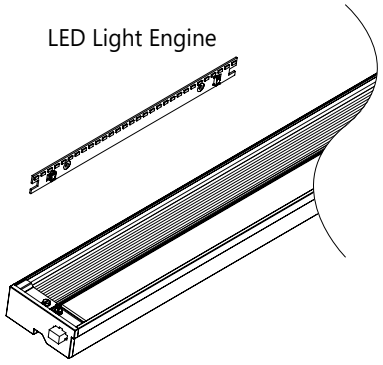
High precision light guide made of PMMA material, allows distribution of controlled light in all 3-dimensions to put light on both vertical and horizontal planes within the space. Patented light guide design featuring molecular optics and precision-coupled optic components yield a high efficiency luminaire.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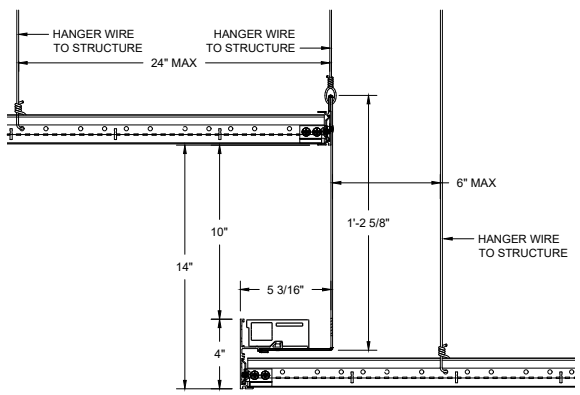
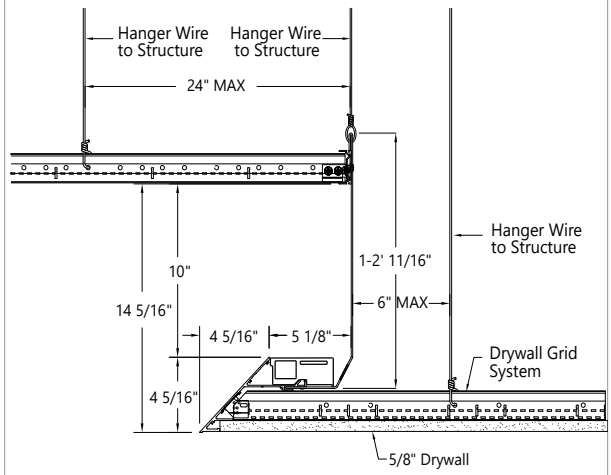
Armstrong and other cove ceiling systems provided by others.

CEILING MOUNTING OPTIONS



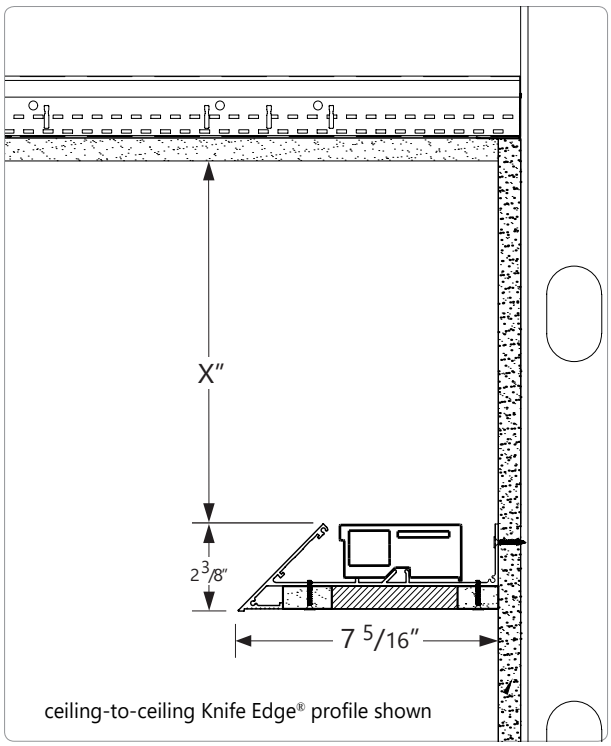
classic profile shown

AC ARMSTRONG AXIOM COVE



Knife Edge® profile shown

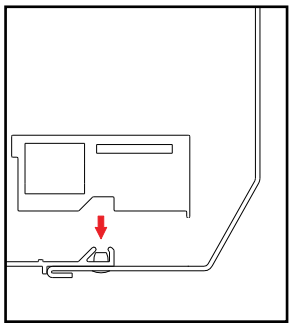
AC ARMSTRONG AXIOM COVE



ceiling-to-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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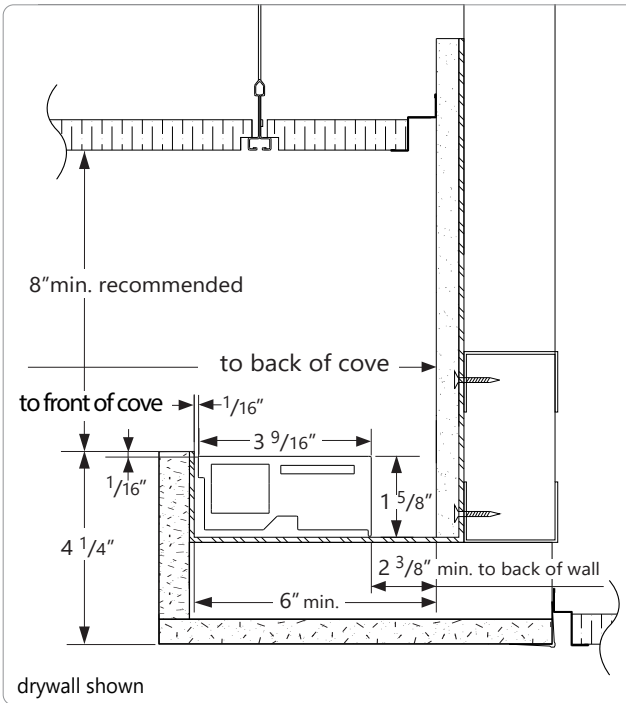
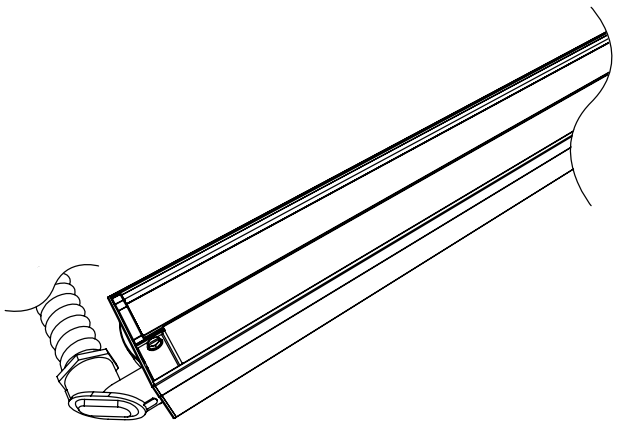


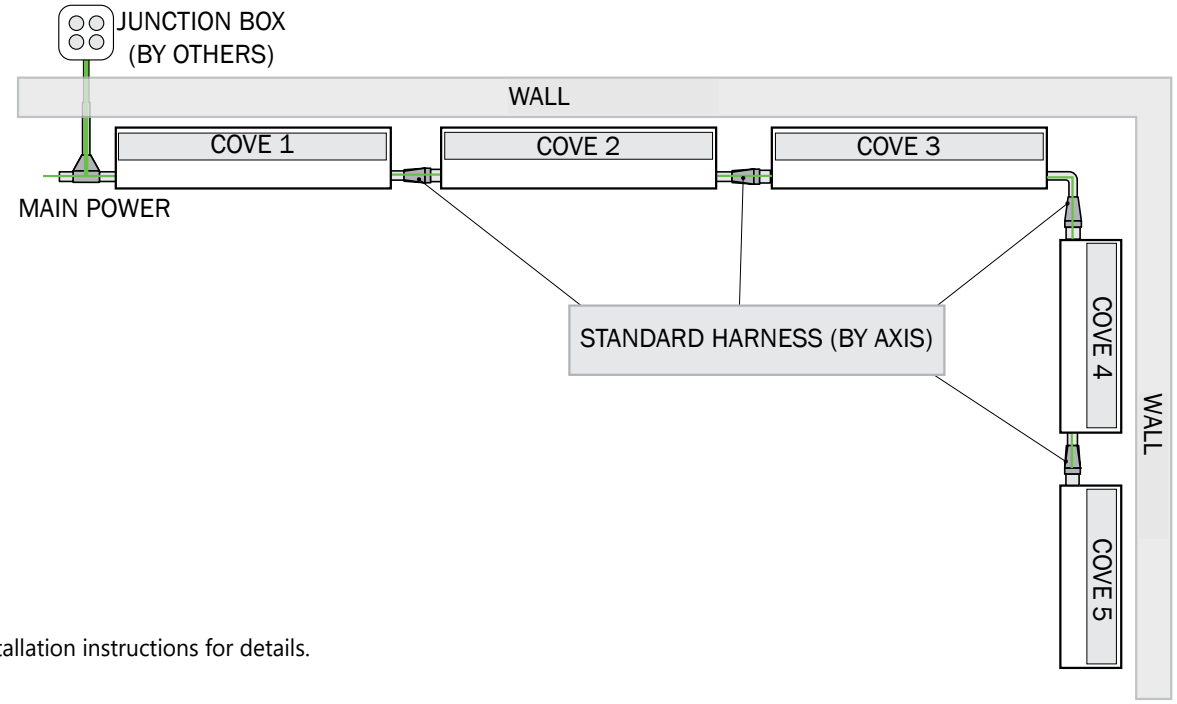
C **OTHER COVE**

● 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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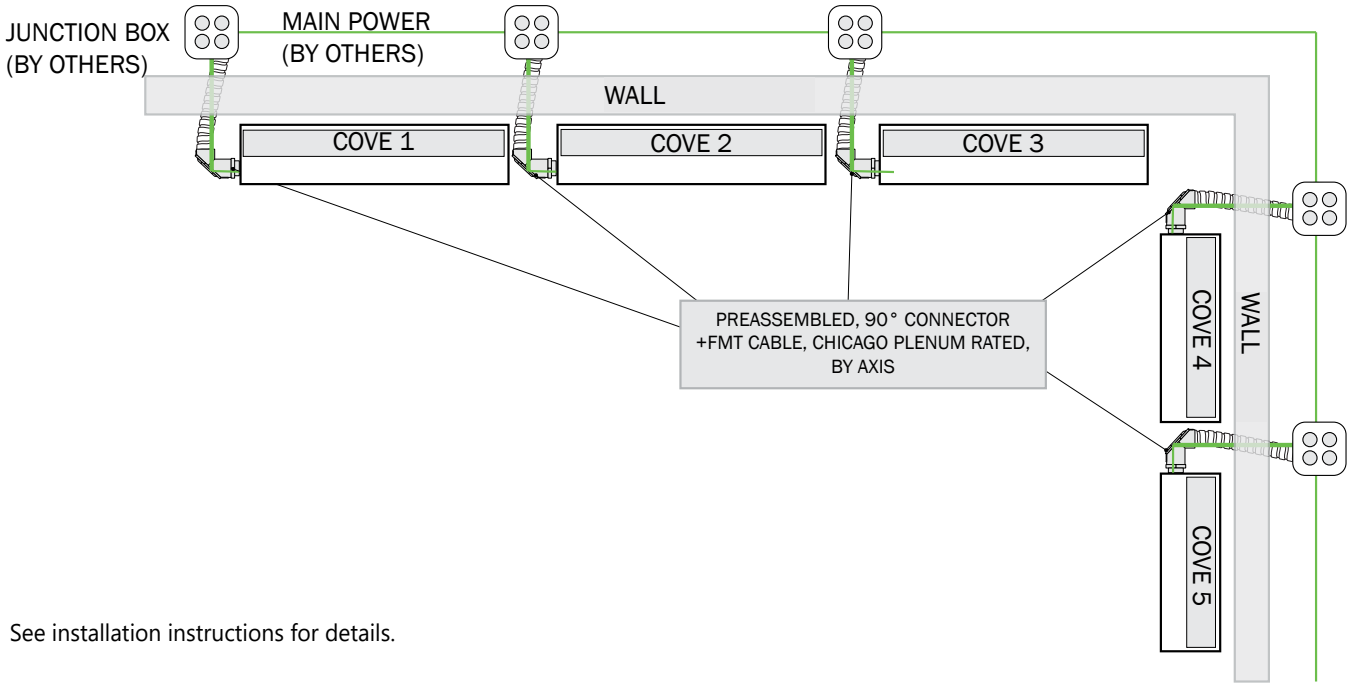
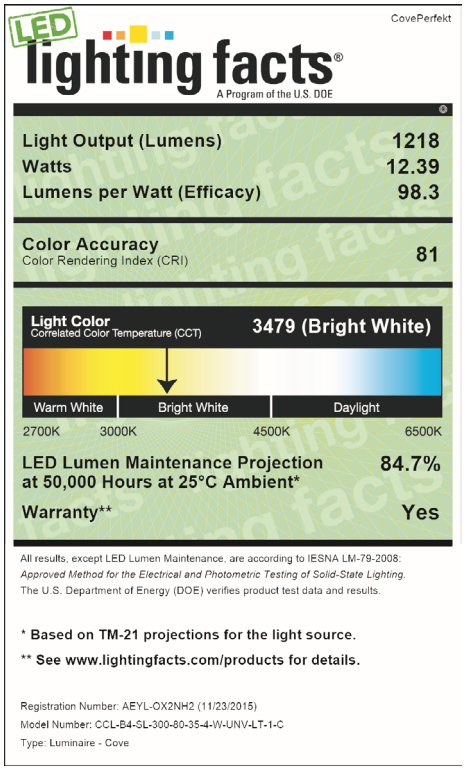
CHICAGO PLENUM OPTION



See installation instructions for details.

PHOTOMETRIC DATA



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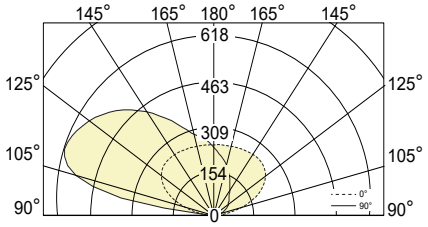
● PHOTOMETRIC DATA (LO-OUTPUT)

NO SHIELDING (NO)

CC-L-X-CL(4)-300-80-35

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	2	2	3	3	3	2	2	1
95	19	18	12	7	6	7	12	18	19
105	91	63	52	44	41	44	53	63	90
115	161	113	78	64	60	64	78	112	161
125	210	152	103	78	72	78	102	150	210
135	236	177	126	94	85	94	125	175	236
145	246	193	147	117	107	116	145	190	246
155	247	205	169	145	137	144	167	201	247
165	245	217	195	179	174	178	192	214	245
175	243	233	225	219	217	217	222	230	243
180	241	241	241	241	241	241	241	241	241

ZONAL LUMENS

Zone	Lumens
90	
90-100	28
100-110	156
110-120	225
120-130	224
130-140	198
140-150	160
150-160	116
160-170	69
170-180	23
180	

Lumen/ft up: 300 lm/ft
Total Lumens: 1198 lm (for 4ft)
Input Watts: 10.1 W
Efficacy: 119 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: CC-L-X-CL(4)-300-80-35.IES

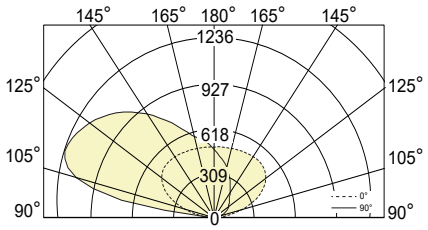
TESTED ACCORDING TO IES LM-79-2008

NO SHIELDING (NO)

CC-L-X-CL(4)-600-80-35

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	2	3	4	5	5	5	4	3	2
95	38	35	25	14	13	14	25	37	38
105	181	126	105	88	82	89	105	126	180
115	322	226	156	127	121	127	156	224	322
125	419	304	206	156	143	156	204	301	420
135	472	355	252	188	171	188	249	350	471
145	492	386	294	233	214	232	291	380	492
155	494	409	339	291	274	288	334	403	494
165	490	435	389	358	347	355	384	428	490
175	487	467	450	437	434	435	444	459	487
180	483	483	483	483	483	483	483	483	483

ZONAL LUMENS

Zone	Lumens
90	
90-100	101
100-110	570
110-120	824
120-130	822
130-140	726
140-150	587
150-160	425
160-170	254
170-180	85
180	

Lumen/ft up: 600 lm/ft
Total Lumens: 2396 lm (for 4ft)
Input Watts: 20.4 W
Efficacy: 117 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: CC-L-X-CL(4)-600-80-35.IES

TESTED ACCORDING TO IES LM-79-2008

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

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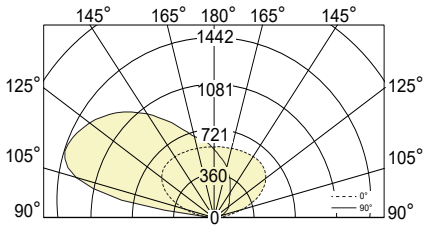
● PHOTOMETRIC DATA (HI-OUTPUT)

NO SHIELDING (NO)

CC-H-X-CL(4)-700-80-35

100% up at 700 lm/ft

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles								
Vertical Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
90	3	4	5	6	6	6	5	4	2
95	44	41	29	16	15	16	29	43	44
105	211	147	122	103	96	103	123	146	211
115	376	263	182	148	141	148	182	262	376
125	489	355	240	182	167	182	239	351	489
135	551	414	294	219	199	219	291	408	550
145	574	450	344	272	250	271	339	443	573
155	577	477	395	339	320	336	389	470	576
165	572	507	454	417	405	415	448	499	572
175	568	544	525	510	506	507	519	536	568
180	563	563	563	563	563	563	563	563	563

ZONAL LUMENS

	Lumens
Zone	
90	
90-100	64
100-110	363
110-120	524
120-130	523
130-140	462
140-150	374
150-160	270
160-170	162
170-180	54
180	

Lumen/ft up: 700 lm/ft
Total Lumens: 2796 lm (for 4ft)
Input Watts: 24 W
Efficacy: 116 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: CC-H-X-CL(4)-700-80-35

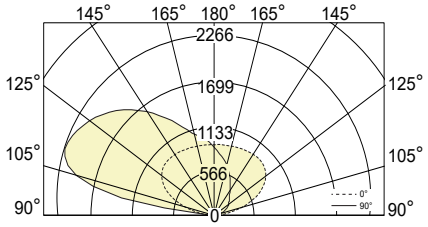
TESTED ACCORDING TO IES LM-79-2008

NO SHIELDING (NO)

CC-H-X-CL(4)-1100-80-35

100% up at 1100 lm/ft

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles								
Vertical Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
90	4	6	8	9	10	9	8	6	4
95	69	65	45	26	23	25	45	68	70
105	332	231	192	162	151	163	193	230	331
115	591	413	287	233	221	233	286	411	591
125	769	558	378	286	263	286	375	552	769
135	865	650	462	345	313	344	457	641	864
145	902	707	540	428	393	425	533	697	901
155	907	750	621	533	503	529	612	738	906
165	899	797	713	656	637	651	705	784	899
175	893	855	825	802	796	797	815	842	893
180	885	885	885	885	885	885	885	885	885

ZONAL LUMENS

	Lumens
Zone	
90	
90-100	101
100-110	570
110-120	824
120-130	822
130-140	726
140-150	587
150-160	425
160-170	254
170-180	85
180	

Lumen/ft up: 1100 lm/ft
Total Lumens: 4393 lm (for 4ft)
Input Watts: 39.2 W
Efficacy: 112 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: CC-H-X-CL(4)-1100-80-35.IES

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