



Project _____

Type _____

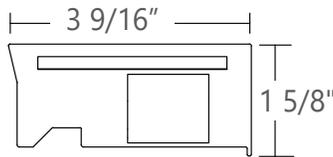
Notes _____

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

PERFORMANCE/LINEAR FT AT 3000K AND 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY*
300 lm/ft	2.4 W/ft	127 lm/W
600 lm/ft	4.7 W/ft	127 lm/W
700 lm/ft	5.6 W/ft	126 lm/W
1100 lm/ft	9 W/ft	122 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



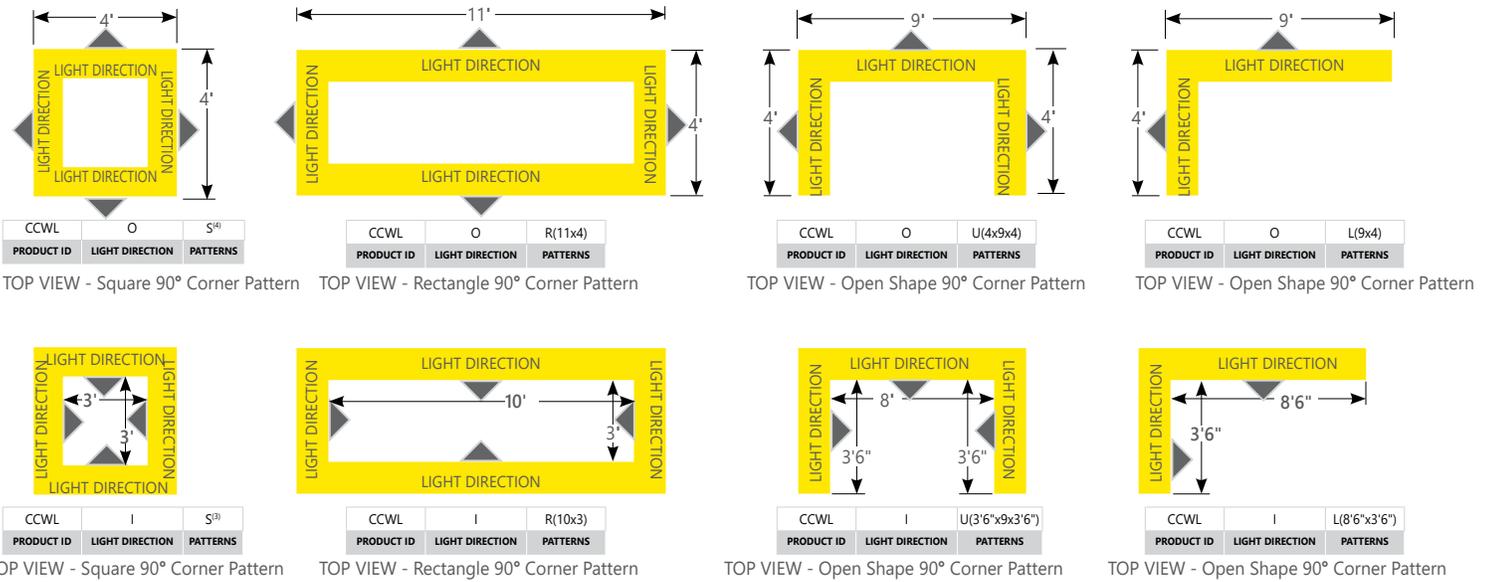
Ordering Guide



CCW									
PRODUCT ID	OUTPUT	LIGHT DIRECTION	COVE OPENING PATTERNS AND LENGTH		NOMINAL LUMENS/FT		CRI		
CCW Cove Wall	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 700 700 lm/ft - Min 1100 1100 lm/ft - Max	LO-OUTPUT 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.									

COLOR TEMP. (choose one)		W	FINISH	VOLTAGE	DRIVER	CIRCUITS
27 2700 K	TW2750 2700-5000 K - Tunable White	W	white	120 120 V	DP dimming (0-10V) 1% LT Lutron	1 1 circuit 2 2 circuits *
30 3000 K	TW2765 2700-6500 K - Tunable White			277 277 V	BI bi-level dimming	+E(#) emergency section** +NL(#) night light section**
35 3500 K	BTW3527 3500-2700 K - Tunable BIOS			347 347 V	O(#) other**	
40 4000 K	BTW4027 4000-2700 K - Tunable BIOS			UNV universal	DPB(#) dimming (0-10V) 1% with BIOS*	
B30 3000 K - BIOS*				DC low voltage*	TW(#) tunable white drivers*	
B35 3500 K - BIOS*					POE(#) POE drivers*	
B40 4000 K - BIOS*						
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

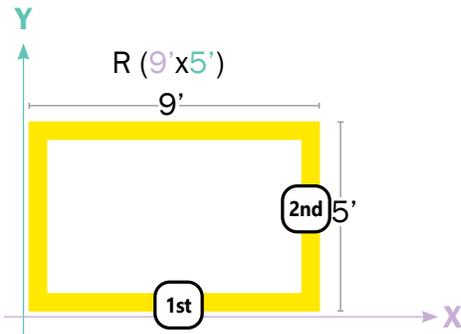


How to Specify 90 degree Corners and Patterns

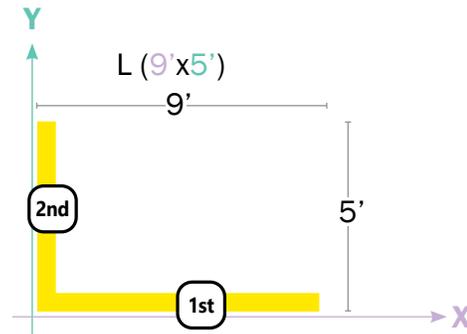
Example

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

Defining R - Rectangular shape

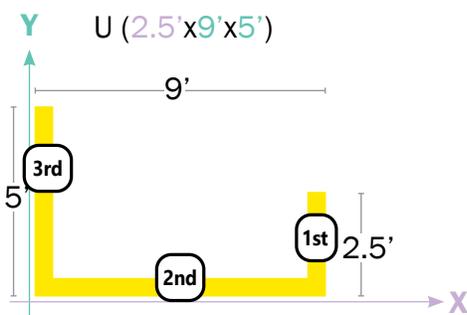


Defining L shape

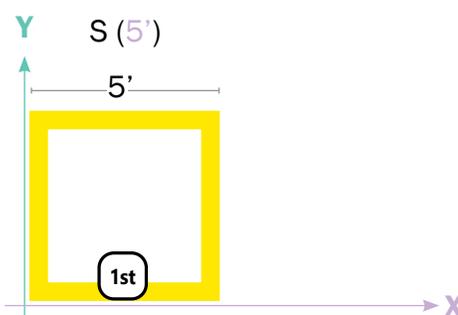


Note: The first number will always define the width, the second - the length.

Defining U shape



Defining S - Square shape



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

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.

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/axiomlightcovers

AESTHETICS

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

PERFORMANCE

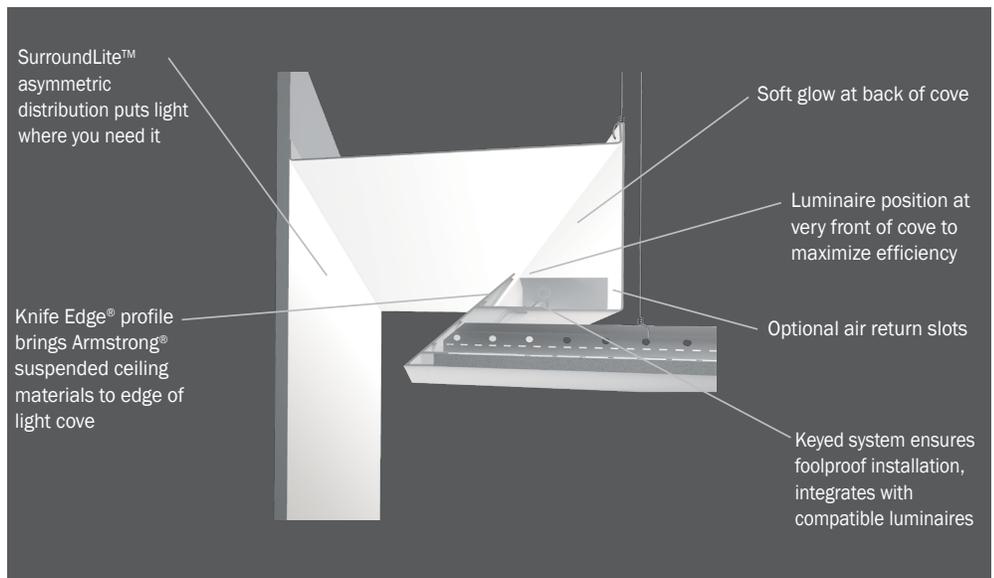
- SurroundLite™ optics with 180-degree distribution eliminates trapped light
- Improved LED lighting effectiveness – Same amount of ambient light using as little as half the watts.
- Integrated driver (Ceiling, Wall) and battery (Ceiling).

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**

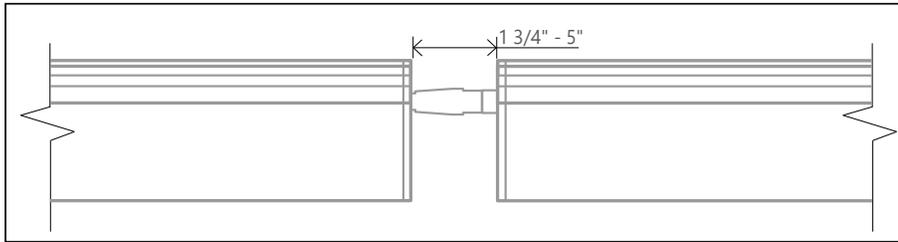
i Axiom® Indirect Light Coves ordered separately from Armstrong.

Indirect light Cove opening



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

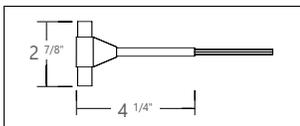
CABLE CONNECTION - LENGTH RANGE



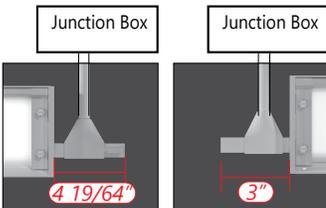
● ACCESSORIES

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

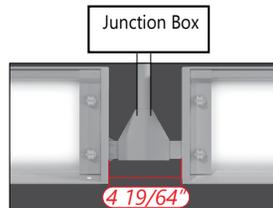
	Item Number	Item	Housing Color	Dimensions	Description		
STD	WR14443	T-connector	White	2 7/8" x 4 1/4"	End feed or middle feed connector from cove fixture to junction box located behind the cove		Feed up to 100' @ 120V 200' @ 277V
	WR14433	Panel mount female connector	White	22" (length)	End feed connector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



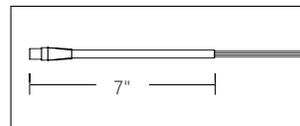
T-connector



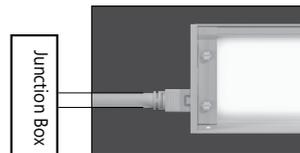
T - End Power Feed



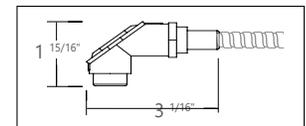
T - Middle Power Feed



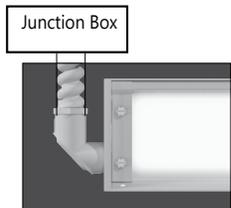
Straight connector



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

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%, light 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*	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.

i 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.

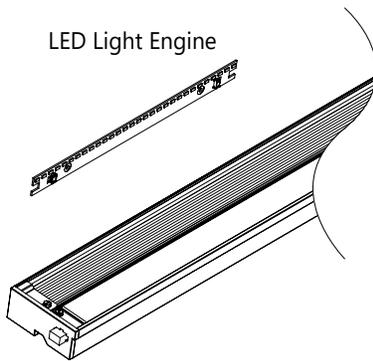
● LIGHT GUIDE

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 under 'Downloads' tab.



● 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 information on systems and joining, please refer to the COVE installation sheets available at www.axislighting.com under 'Downloads' tab.

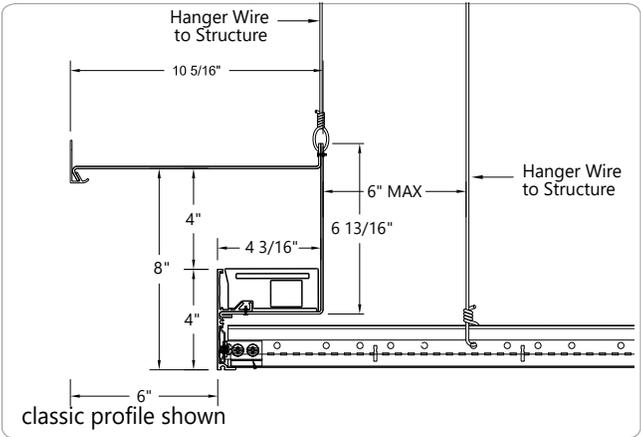
● APPROVALS

Certified to UL and CSA standards
Suitable for damp locations.

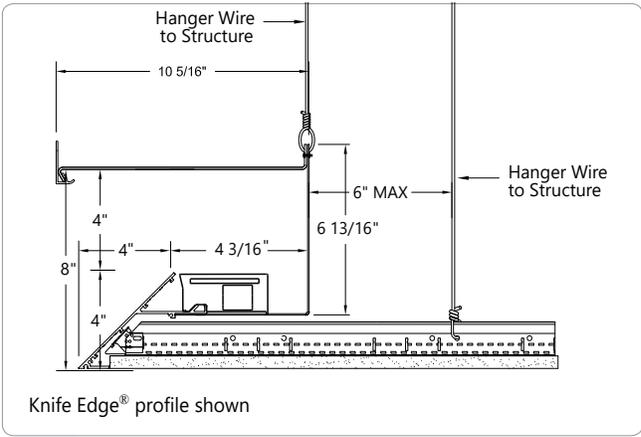


i Armstrong and other cove ceiling systems provided by others.

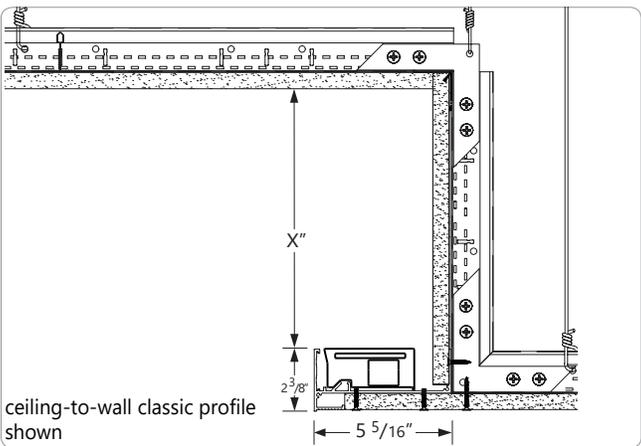
● **CEILING MOUNTING OPTIONS**



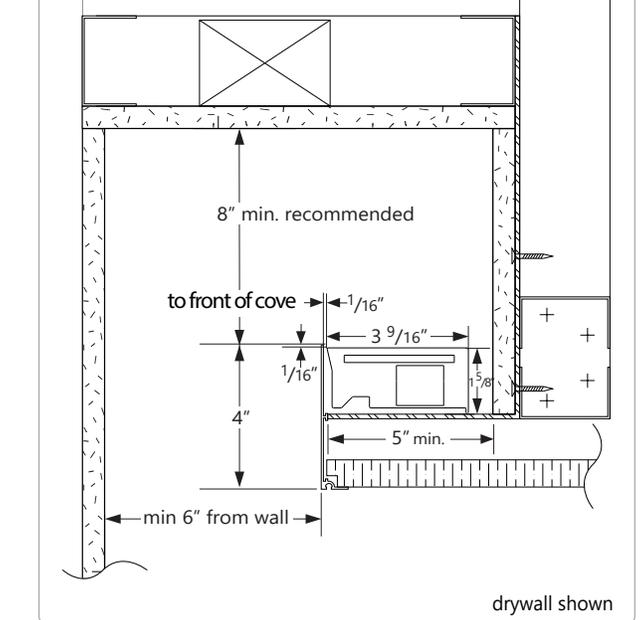
AC ARMSTRONG AXIOM COVE



AC ARMSTRONG AXIOM COVE

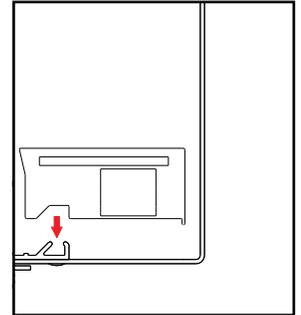


AC ARMSTRONG AXIOM INDIRECT LIGHT LEDGE

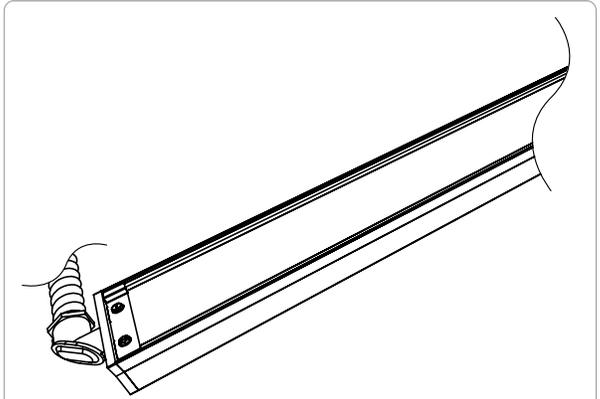


C OTHER COVE

WITH ARMSTRONG CEILING

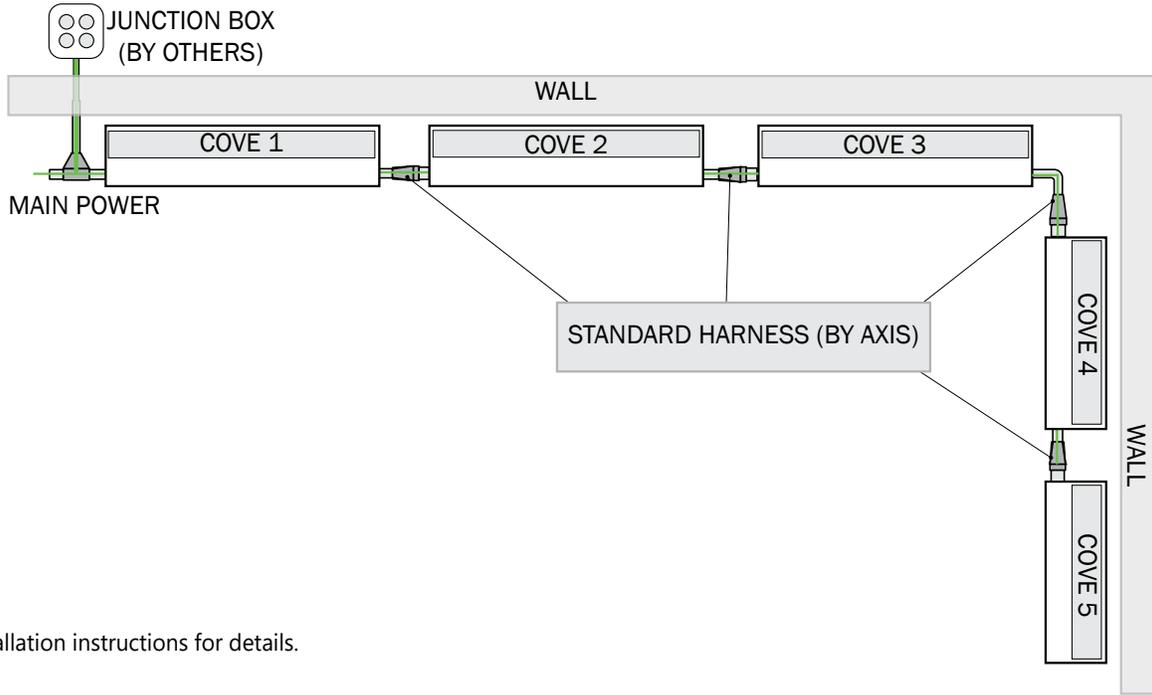


● **CHICAGO PLENUM OPTION**



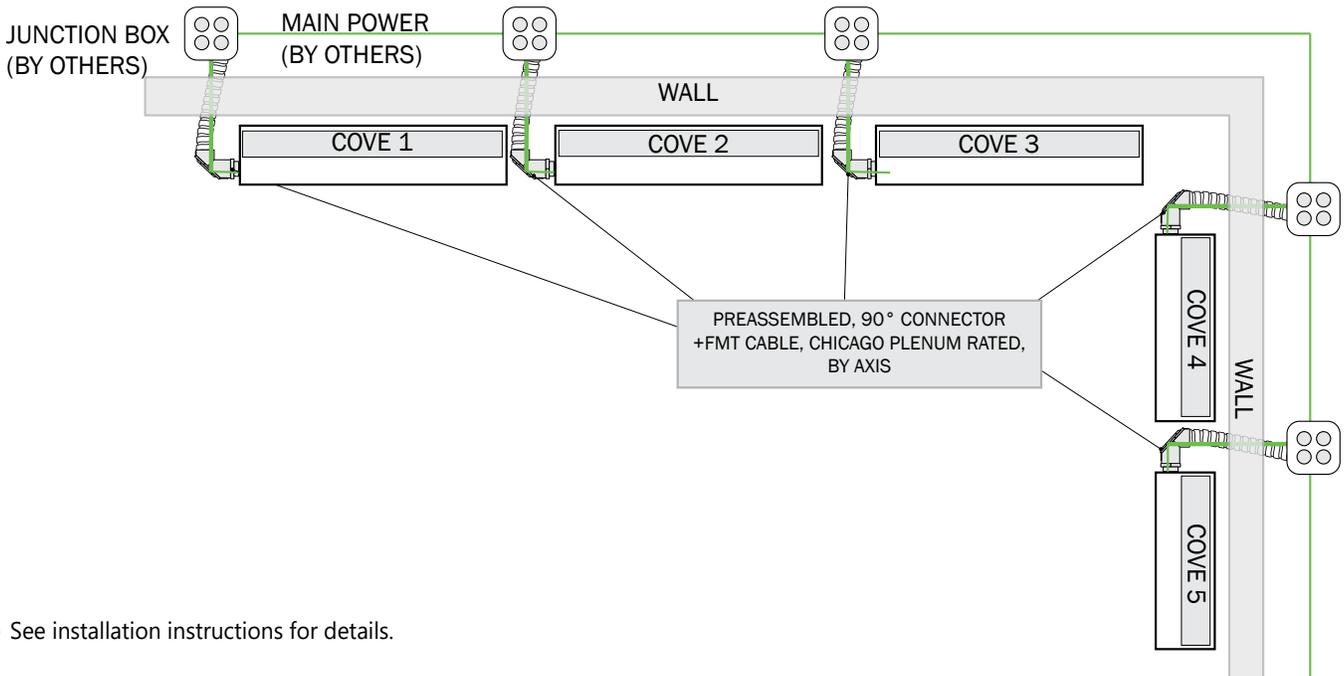
i Luminaires with Chicago plenum option are shipped with 6' of FMT cable + 90° Connector.

● STANDARD HARNESS OPTION



i See installation instructions for details.

● CHICAGO PLENUM OPTION



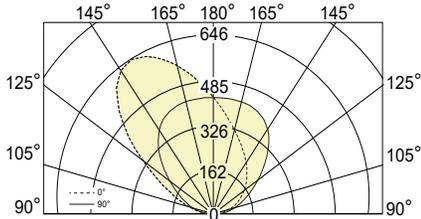
i See installation instructions for details.

● PHOTOMETRIC DATA (LO-OUTPUT)

NO SHIELDING (NO)

CCW-L-X-CL(4)-300-80-35
100% up at 300 lm/ft

PHOTOMETRIC CURVE



Lumen/ft up: 300 lm/ft
Total Lumens: 1196 lm (for 4ft)
Input Watts: 9.4 W
Efficacy: 127 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: CCW-L-X-CL(4)-300-80-35.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	1	2	2	3	3	3	2	2	1
95	23	20	19	17	17	17	19	21	23
105	72	64	62	59	59	60	63	64	72
115	124	108	101	96	95	96	101	108	123
125	193	165	145	132	129	132	145	165	192
135	292	241	200	174	168	175	200	241	291
145	383	310	251	217	207	217	251	309	383
155	422	347	290	256	246	256	289	345	422
165	423	369	328	301	294	301	326	366	423
175	416	396	380	367	365	366	377	391	416
180	412	412	412	412	412	412	412	412	412

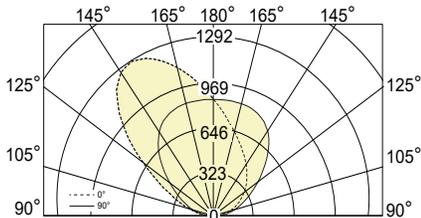
ZONAL LUMENS

Zone	Lumens
90	
90-100	20
100-110	69
110-120	116
120-130	169
130-140	223
140-150	241
150-160	198
160-170	121
170-180	40
180	

NO SHIELDING (NO)

CCW-L-X-CL(4)-600-80-35
100% up at 600 lm/ft

PHOTOMETRIC CURVE



Lumen/ft up: 600 lm/ft
Total Lumens: 2392 lm (for 4ft)
Input Watts: 18.9 W
Efficacy: 127 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: CCW-L-X-CL(4)-600-80-35.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	2	3	4	5	5	5	5	3	2
95	45	41	37	34	34	33	37	41	47
105	145	127	125	119	117	119	126	128	144
115	248	216	202	192	190	192	202	215	246
125	386	331	290	264	258	265	290	330	384
135	585	482	399	349	337	350	400	482	582
145	767	620	502	433	415	434	503	619	766
155	843	694	580	511	492	511	579	690	844
165	845	738	656	603	587	601	652	731	847
175	832	792	760	735	730	732	754	782	833
180	824	824	824	824	824	824	824	824	824

ZONAL LUMENS

Zone	Lumens
90	
90-100	20
100-110	69
110-120	116
120-130	169
130-140	223
140-150	241
150-160	198
160-170	121
170-180	40
180	

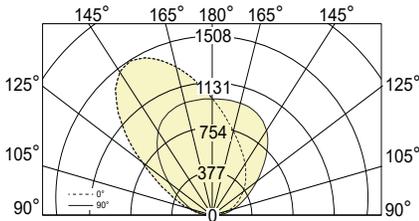
i All IES files are available for download at: www.axislighting.com

● PHOTOMETRIC DATA (HI-OUTPUT)

NO SHIELDING (NO)

CCW-H-X-CL(4)-700-80-35
100% up at 700 lm/ft

PHOTOMETRIC CURVE



Lumen/ft up: 700 lm/ft
Total Lumens: 2791 lm (for 4ft)
Input Watts: 22.2 W
Efficacy: 126 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: CCW-H-X-CL(4)-700-80-35.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	2	4	5	6	6	6	5	4	2
95	53	48	43	40	40	39	43	48	54
105	169	149	146	139	137	139	147	149	168
115	289	252	236	223	222	224	236	251	287
125	450	386	339	309	301	309	339	385	448
135	682	562	466	407	393	408	467	562	679
145	894	724	586	506	484	506	586	722	893
155	984	810	676	596	574	597	675	805	985
165	986	861	765	703	685	702	761	853	988
175	971	924	887	857	852	854	879	913	972
180	961	961	961	961	961	961	961	961	961

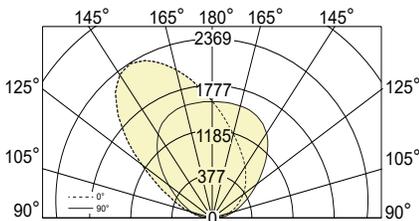
ZONAL LUMENS

Zone	Lumens
90	
90-100	20
100-110	69
110-120	116
120-130	169
130-140	223
140-150	241
150-160	198
160-170	121
170-180	40
180	

NO SHIELDING (NO)

CCW-H-X-CL(4)-1100-80-35
100% up at 600 lm/ft

PHOTOMETRIC CURVE



Lumen/ft up: 1100 lm/ft
Total Lumens: 4386 lm (for 4ft)
Input Watts: 36 W
Efficacy: 122 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: CCW-H-X-CL(4)-1100-80-35.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	2	2	2	2	2	2	2	3	2
95	88	88	86	82	79	87	92	95	84
105	275	299	299	314	319	319	304	305	267
115	471	530	583	617	641	624	587	536	461
125	713	842	976	1107	1157	1112	978	850	699
135	1011	1235	1468	1680	1774	1678	1467	1240	995
145	1263	1536	1820	2050	2143	2042	1811	1533	1249
155	1386	1631	1872	2054	2122	2043	1859	1625	1379
165	1422	1584	1733	1839	1876	1828	1720	1577	1418
175	1424	1479	1527	1558	1568	1549	1517	1474	1423
180	1419	1419	1419	1419	1419	1419	1419	1419	1419

ZONAL LUMENS

Zone	Lumens
90	
90-100	77
100-110	276
110-120	476
120-130	682
130-140	840
140-150	839
150-160	665
160-170	409
170-180	136
180	

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

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

