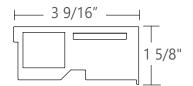




IMPORTANT! - All cove opening patterns and length must be submitted with drawings indicating dimensions and light direction.



Project _____ **Type Notes**

PERFORMANCE/LINEAR FT AT 3000K AND 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY*
300 lm/ft	3.6 W/ft	84 lm/W
400 lm/ft	4.8 W/ft	84 lm/W
500 lm/ft	6.0 W/ft	84 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								
	PRODUCT ID	LIGH	LIGHT DIRECTION		COVE OPENING PATTERNS AND LENGTH		NOMINAL LUMENS/FT		CRI
CCL	Ceiling Cove for LO-output		inside lit outside lit	S(L) R(LxL) U(LxLxL) L(LxL)	Cove linear (length) square shape (length) rectangular shape (length) U shape (length) L shape (length) total pattern length		300 lm/ft - Minimum 500 lm/ft - Maximum		80 CRI 90 CRI*
		All cov	* For Cove Linear Length, please use Inside Lit option Cove Perfekt standard lengths are 2-12 feet in increments of 1 foot. Inside Lit option All cove opening patterns and length must be submitted with drawings indicating dimensions and light direction.			Consult factor 1000 lm/ft -	ween listed min and max are available. ory for outputs outside of the listed range. Maximum for 90 CRI. ory for max output with BIOS.		mum 1000 s/ft; Not availabl OS.

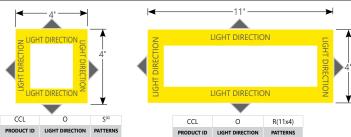
					W						
	COLOR TEMP. (choose one)		F	FINISH VOLTAGE		DRIVER		CIRCUITS			
27	2700 K	TW2750	2700-5000 K - Tunable White	W	white	120	120 V	DP	dimming (0-10V) 1%	1	1 circuit
30	3000 K	TW2765	2700-6500 K - Tunable White			277	277 V	LT(#)	Lutron*	2	2 circuits *
35	3500 K					347	347 V	BI	bi-level dimming	+E(#)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

	MOUNTING/SUSPENSION	BATTERY (OPTIONAL)		OTHER (OPTIONAL)		EMOTE IC CONTROLS (OPTIONAL)	CU	CUSTOM (OPTIONAL)	
AC	Armstrong Axiom Cove*	B(#) battery pack	F	fuse	DS(#)	daylight sensor	C	custom	
C	Other Cove		СР	Chicago plenum*	OS(#)	occupancy sensor			
					DOS(#)	daylight & occupancy sensor			
					ENR(#)	Enlighted remote*			
					WC(#)	wireless control dimming			
*Order	ed separately from Armstrong.	For minimum 4' long fixture only Not available with 347V. Please consult factory	* Lumi are sh	* Luminaires with Chicago plenum option are shipped with 6' of FMT cable. See page 6 for more details.		sult factory ntity, Remote only. ted controls guide for more details. tory for Tunable White. Not available with DPB (DYN) OS with Dynamic Spectrum.	Please s	pecify	

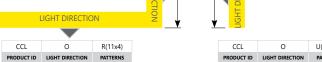
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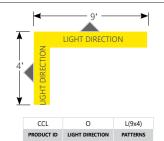
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TOP VIEW - Square 90° Corner Pattern TOP VIEW - Rectangle 90° Corner Pattern



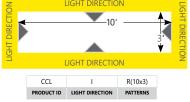


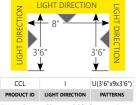
TOP VIEW - Open Shape 90° Corner Pattern

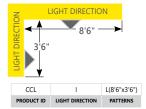
LIGHT DIRECTION

TOP VIEW - Open Shape 90° Corner Pattern









TOP VIEW - Rectangle 90° Corner Pattern

TOP VIEW - Open Shape 90° Corner Pattern

TOP VIEW - Open Shape 90° Corner Pattern

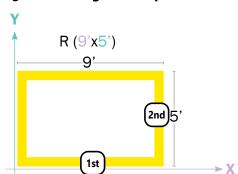
How to Specify 90 degree Corners and Patterns

Example

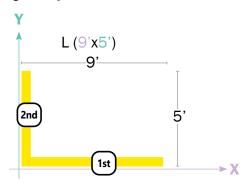


Measurements for Cove Perfekt should be made along the front side of the Cove opening.

Defining R - Rectangular shape

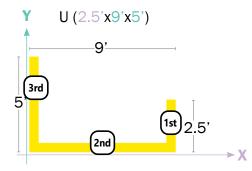


Defining L shape



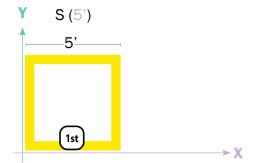
Note: The first number will always define the width, the second - the length.

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



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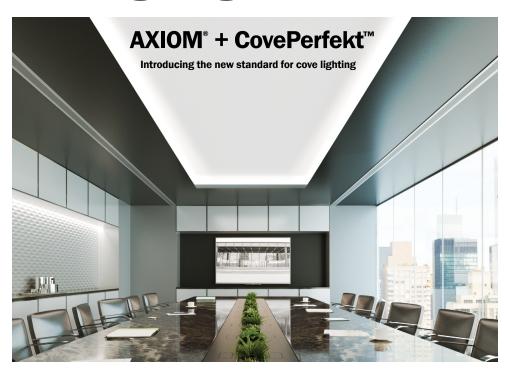
[T] 514.948.6272

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/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).

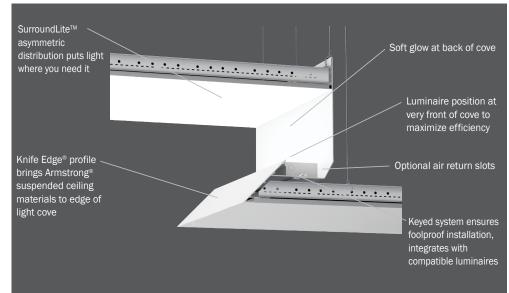
- · Tool-free installation of luminaires.
- Up to 90% less labor to install coves.
- · Easy onsite trade coordination

roduct design and development is an ongoing process at

Axis Lighting. We reserve the right to change specifications

Contact Axis for the latest product information.

· Long runs conveniently connected to a single line-voltage circuit (up to 100 feet)



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The ultimate cove lighting solution... CovePerfekt in an Axiom® Indirect Light Cove.

Axiom® Indirect Light Coves ordered separately from Armstrong.

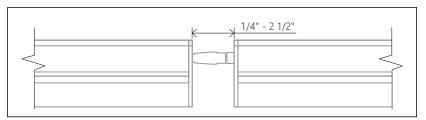


INDIRECT LIGHT COVE OPENING



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

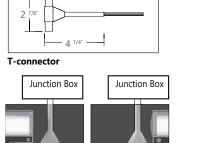
CABLE CONNECTION - LENGTH RANGE



ACCESSORIES

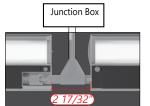
Straight or T power feeds available to feed power anywhere along run

	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	Feed up to
	WR14434	Straight male connector	White	7" (length)	next Cove fixture in the run	100' @ 120V 200' @ 277V
	EL18832	90° Connector			Chicago plenum approved 90° Connector	Feed up to
CCEA	PWHP-72-5W	FMT, Chicago Plenum Rated		6' (length)	Custom plenum flex whip	100' @ 120V 200' @ 277V

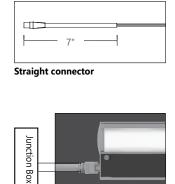




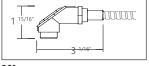
T - End Power Feed



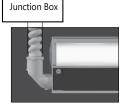
T - Middle Power Feed



Straight End - Power Feed



90°-connector + FMT, CCEA



T - End Power Feed

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



CONSTRUCTION

HousingExtruded aluminum (0.060" nominal)End CapDie cast aluminum (0.080" nominal)Top CoversCold 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 STC - BIOS control 0-10V with static spectrum and BIOS

DPB drivers* SkyBlue enabled from 100% to 1%.

DYN- BIOS control 0-10V with dynamic spectrum and BI SkyBlue® with Bio-Dimming™ enabled 100% to 50%, lial

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 MOLEX POE drivers* IGOR

UL2108 certified for SMARTENGINE

integral or remote driver 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°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°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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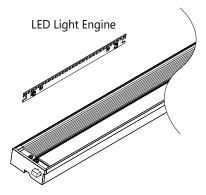
LIGHT GUIDE

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.



• 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.



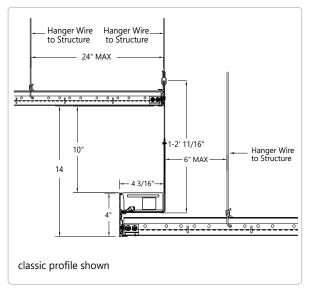
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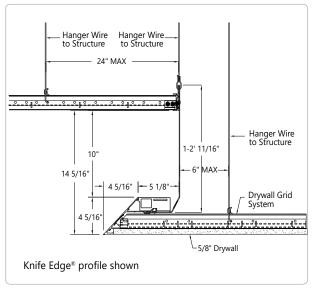


Armstrong and other cove ceiling systems provided by others.

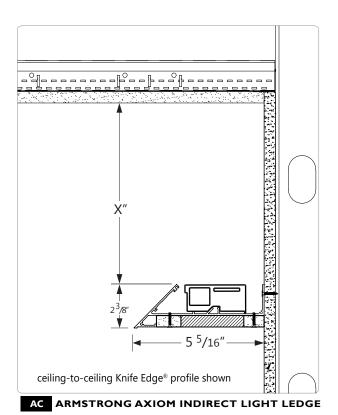
CEILING MOUNTING OPTIONS



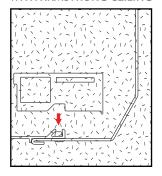
AC ARMSTRONG AXIOM COVE



AC ARMSTRONG AXIOM COVE



WITH ARMSTRONG CEILING



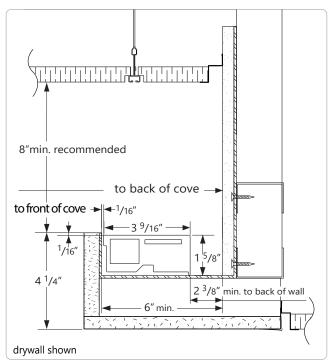
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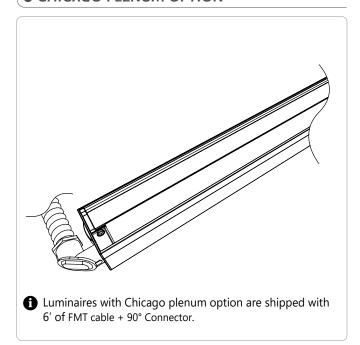
[T] 514.948.6272

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



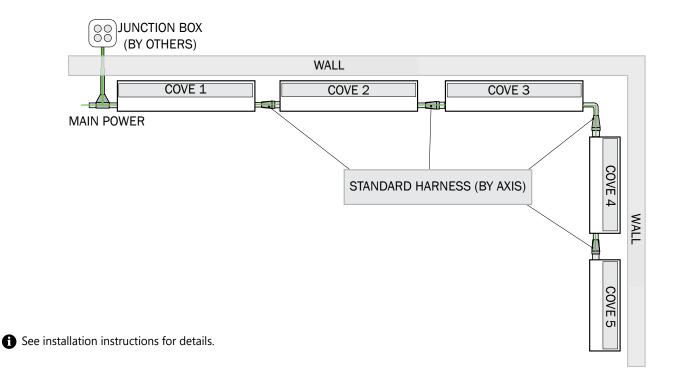


CHICAGO PLENUM OPTION



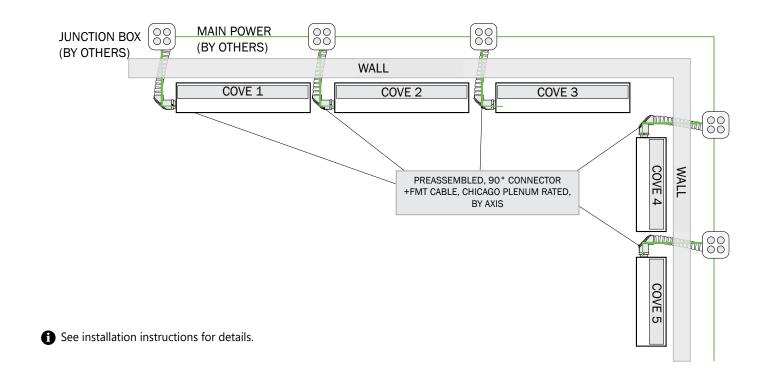
C OTHER COVE

STANDARD HARNESS OPTION





CHICAGO PLENUM OPTION



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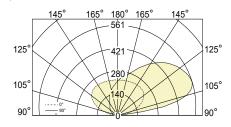


PHOTOMETRIC DATA

NO SHIELDING (NO)

CCL-SL-300-80-35-CL-4 100% up at 300 lm/ft

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION Horizontal Angles Vertical 22.5 67.5 112.5 135 157.5 180 Angle

ZONAL LUMENS						
	Lumens					
Zone						
90						
90-100	43					
100-110	173					
110-120	219					
120-130	221					
130-140	195					
140-150	154					
150-160	109					
160-170	64					
170-180	22					
180						

Lumen/ft up: 300 lm/ft Total Lumens: 1200 lm (for 4ft)

Input Watts: 14.3 W Efficacy: 84 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-300-80-35-CL-4

TESTED ACCORDING TO IES LM-79-2008





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

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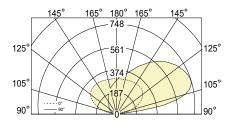


PHOTOMETRIC DATA

NO SHIELDING (NO)

CCL-SL-400-80-35-CL-4 100% up at 400 lm/ft

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION Horizontal Angles Vertical O 22.5 67.5 112.5 157.5 Angle 35 I 30 I

ZONAL LUMENS Lumens Zone 90-100 100-110 110-120 120-130 130-140 140-150 150-160 160-170 170-180

Lumen/ft up: 400 lm/ft Total Lumens: 1600 lm (for 4ft)

Input Watts: 19 W Efficacy: 84 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.

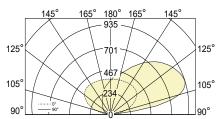
IES FILE: CCL-SL-400-80-35-CL-4.IES

TESTED ACCORDING TO IES I M-79-2008

NO SHIELDING (NO)

CCL-SL-500-80-35-CL-4 100% up at 500 lm/ft

PHOTOMETRIC CURVE



Lumen/ft up: 500 lm/ft Total Lumens: 2000 lm (for 4ft)

Input Watts: 23.8 W Efficacy: 84 lm/W

CANDELA DISTRIBUTION

	Horizontal Angles									
Vertical Angle	0	22.5	45	67.5	90	112.5	135	157.5	180	
90	2	1	- 1	0	0	0	ı	- 1	ı	
95	40	81	98	56	33	40	65	68	31	
105	175	242	404	684	826	684	405	236	163	
115	300	377	535	780	932	786	536	373	290	
125	373	456	599	781	884	787	600	453	367	
135	398	477	598	728	795	733	599	477	396	
145	398	457	553	640	681	643	554	463	398	
155	390	429	484	539	562	540	488	439	391	
165	383	405	431	451	460	453	437	416	384	
175	380	383	396	406	409	408	402	393	380	
180	376	376	376	376	376	376	376	376	376	

ZONAL LUMENS

	Lumens
Zone	
90	
90-100	72
100-110	288
110-120	366
120-130	369
130-140	325
140-150	257
150-160	181
160-170	107
170-180	36
180	

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-500-80-35-CL-4.IES

TESTED ACCORDING TO IES LM-79-2008



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



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