

Grid Cove



PROJECT:

TYPE:

Features

Amerlux’s Grid Cove system is the first ever fully integrated grid-to-grid cove lighting system, designed for seamless integration with standard grid ceilings. This innovative solution combines the vertical ceiling transition, a crisp knife-edge cove detail, and high-performance illumination in a single, easy-to-specify product. Amerlux’s proprietary Wide Asymmetric optics ensure uniform lighting across the upper ceiling and vertical wall, while providing ample light on surfaces below the cove. Grid Cove empowers designers to effortlessly elevate standard grid ceilings with an upscale aesthetic and comfortable, indirect light.



Product Overview

- Type: Indirect Cove Light
- Wattage: Configurable from 3W/ft to 10W/ft
- Color Temp: 3000K, 3500K, 4000K
- CRI: 90+ typ.
- Dimming: 0-10V, Hi-lume®, DALI



Certifications



Fixture Summary

Performance Data			
Ordered Wattage/Foot	Actual Wattage/Ft	Lumens/Foot	LPW
3	3.02	290	96
4	3.95	386	98
5	5.01	510	102
6	6.00	598	100
7	6.98	695	100
8	8.00	791	99
9	9.00	878	98
10	9.98	965	97

Data is based on 3500K, 90+ CRI



PROJECT:

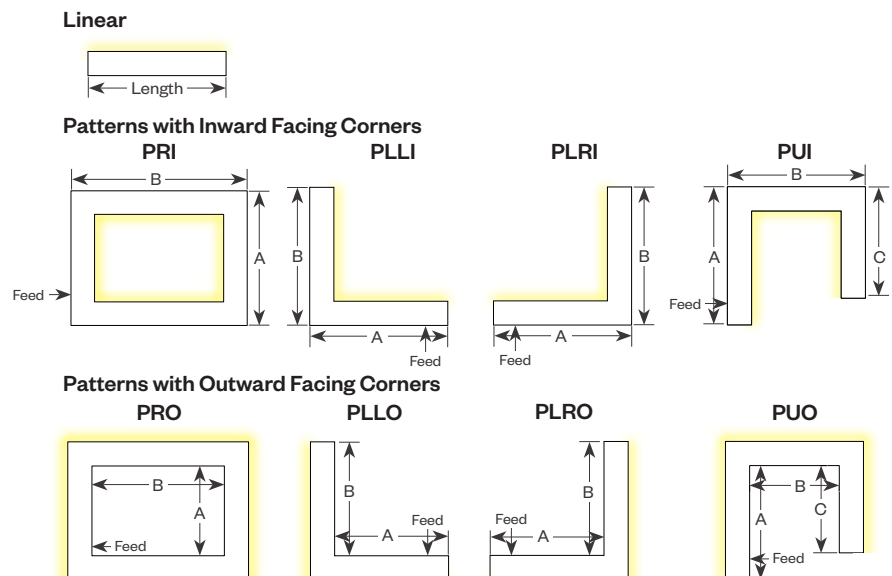
TYPE:

Ordering Information - Housing/Frame

GCOVE-I		WASY		BWH		120/277					
1	2	3	4	5	6	7	8	9	10		
1	Model	2	Grid System	3	Optics	4	Wattage	5	Color Temp-CRI	6	Finish
	GCOVE-I indirect grid cove system		24 24" on center grid spacing		WASY wide asymmetric		3* 3W/ft 4* 4W/ft 5 5W/ft 6 6W/ft 7 7W/ft 8 8W/ft 9 9W/ft 10 10W/ft <i>* 4' min length required</i>		309 3000K-90+ 359 3500K-90+ 409 4000K-90+		BWH blizzard white

7	Voltage	8	Length	9	Configuration																																								
	120/277		<table><tr><td>Length A</td><td>X</td><td>Length B</td><td>X</td><td>Length C</td></tr><tr><td>- all patterns</td><td></td><td>- all patterns</td><td></td><td>- PU</td></tr><tr><td>- IND</td><td></td><td>- PRI</td><td></td><td></td></tr><tr><td>- CON</td><td></td><td>- PRO</td><td></td><td></td></tr><tr><td>- CUS</td><td></td><td>- PLLI</td><td></td><td></td></tr><tr><td></td><td></td><td>- PLLO</td><td></td><td></td></tr><tr><td></td><td></td><td>- PLRI</td><td></td><td></td></tr><tr><td></td><td></td><td>- PLRO</td><td></td><td></td></tr></table>	Length A	X	Length B	X	Length C	- all patterns		- all patterns		- PU	- IND		- PRI			- CON		- PRO			- CUS		- PLLI					- PLLO					- PLRI					- PLRO				<p><u>Linear Segments</u> (ships with end caps)</p> <p>IND individual fixture, 2' to 8' in 2' increments</p> <p>CON continuous run > than 8', specify to nearest foot</p> <p>CUS custom made to measure, +/- 1/8" of customer supplied field dimensions</p> <p><u>Linear Wall-to-Wall</u> (ships without end caps)</p> <p>WTW custom made to measure, +/- 1/8" of customer supplied field dimensions</p> <p><u>Patterns with Inward Facing Corners</u></p> <p>PRI Rectangle shape, (4) straight lengths + (4) 90° corners</p> <p>PLLI L left, (2) straights + (1) 90° corner, leg right</p> <p>PLRI L right, (2) straights + (1) 90° corner, leg left</p> <p>PUI U shape, (3) straight lengths + (2) 90° corners</p> <p><u>Patterns with Outward Facing Corners</u></p> <p>PRO Rectangle shape, (4) straight lengths + (4) 90° corners</p> <p>PLLO L left, (2) straights + (1) 90° corner, leg right</p> <p>PLRO L right, (2) straights + (1) 90° corner, leg left</p> <p>PUO U shape, (3) straight lengths + (2) 90° corners</p>
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10	Driver/Controls
	<p>0-10V 1% electronic dimming, multi-volt 120-277VAC constant current driver (standard)</p> <p>HILUME-H-ECO Lutron LDE1 Hi-lume® 1% dim Soft-On/Fade-to-Black</p> <p>DALI DALI dimming 120-277VAC, 1% dim</p>



PROJECT:

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Specifications

Application

Grid Cove can be effortlessly integrated into any space using grid ceilings. Provides indirect light. Light source is concealed for visual comfort.

Construction

Extruded aluminum housing.
Galvanized cold-rolled steel brackets.
Pre-painted sheet metal end caps.

Optical

Lenses are snap-in extruded acrylic with maximum length of 8ft.
The non-porous and smooth acrylic lens is ideal for applications requiring a wipe-down lens.

WASY - wide asymmetric optic maximizes light projection and uniformity

LED

Color Temp Options: 3000K, 3500K, 4000K
CRI: 90+ typ.
R9 Values: 55 (92 CRI)
Binning: 3 MacAdam (SDCM)
Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

Electrical

Wattage: 3W/ft to 10W/ft

Electronic constant current LED driver, 120/277VAC input

This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux® recommends using additional surge protection with this unit (supplied by others), surge and over voltage damage is not covered under warranty.

Finish

All painted surfaces are premium powder coated baked on for maximum durability and color stability.

BWH - blizzard white

Mounting

For use in grid ceilings.

Suspended with hanging wire or threaded rods (by others).

Certifications

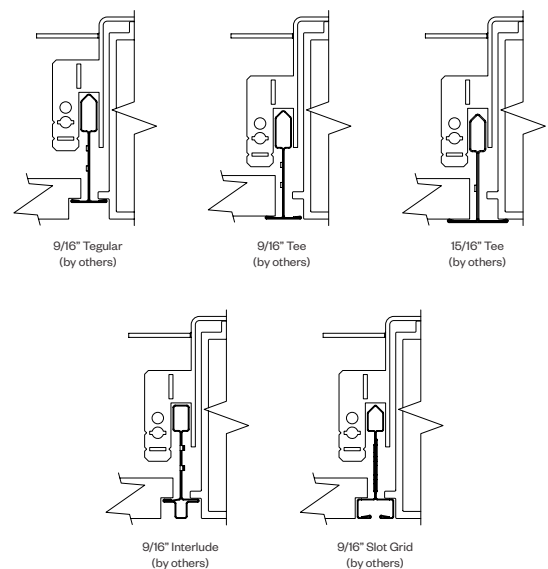
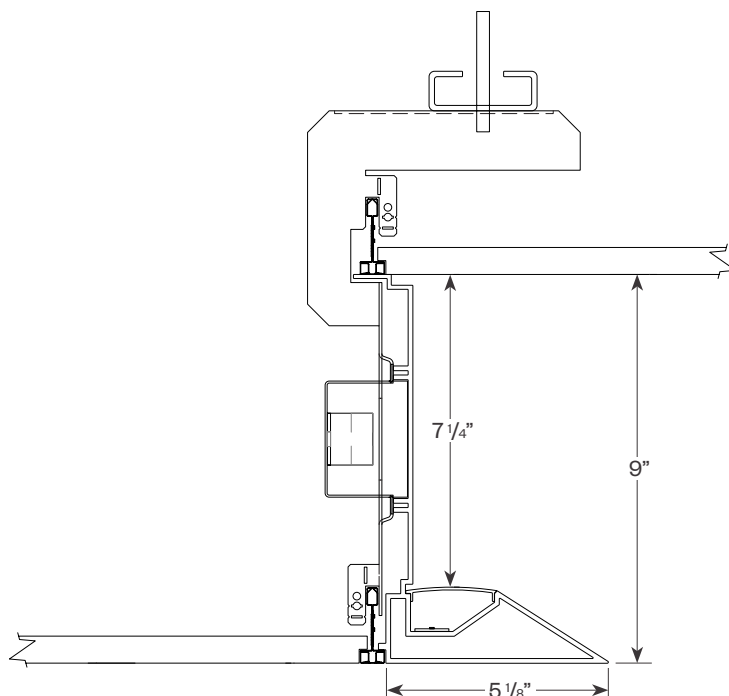
CSA damp as tested to UL 1598 standards.

Damp location.

Warranty

5 year limited warranty.

Product Details



PROJECT:

TYPE:

Performance Data

Multiplying Factors: (Multiplying Factor is based on 3500K-90 120V IES file on website)

Wattage:	3W	4W	5W	6W	7W	8W	9W	10W
Factor:	0.30	0.40	0.51	0.62	0.72	0.82	0.91	1.0

Note: Wattage multipliers are based on a 10W/ft reference value.

CCT:	2700K-90	3000K-90	3500K-90	4000K-90
Factor:	0.95	0.96	1.0	1.04

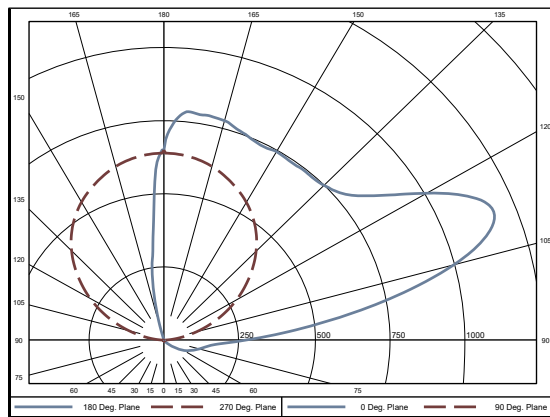
GRID COVE WIDE ASYMMETRIC LENS 5W 3500K 90CRI 4FT

Total Watts: 20

Total Lumens: 2040

Source: 192 White LED's

LTL# 15863453.02



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	3	0.1
0-60	16	0.8
0-90	135	6.6
90-180	1906	93.4

Efficacy (lumens/watt) = 101.9 lm/W

COEFFICIENTS OF UTILIZATION

RC	80			
RW	70	50	30	10
ROR				
0	97	97	97	97
1	87	82	78	74
2	78	71	65	60
3	71	62	55	49
4	65	54	47	41
5	59	48	40	35
6	54	43	35	30
7	50	38	31	26
8	46	35	27	22
9	43	31	24	19
10	40	28	22	17

Note: Values expressed as % of total lumen output delivered to the task surface.

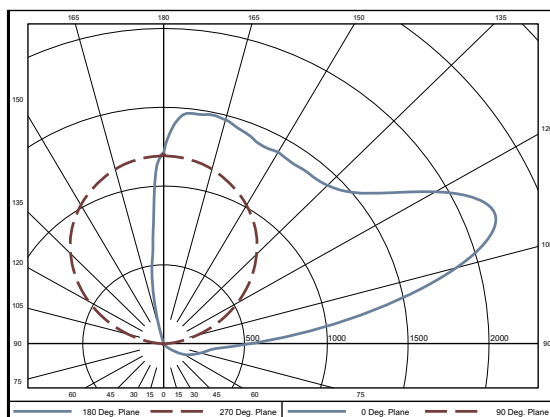
GRID COVE WIDE ASYMMETRIC LENS 10W 3500K 90CRI 4FT

Total Watts: 40

Total Lumens: 3859

Source: 192 White LED's

LTL# 15863453.01



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	6	0.1
0-60	31	0.8
0-90	260	6.7
90-180	3599	93.3

Efficacy (lumens/watt) = 96.7 lm/W

COEFFICIENTS OF UTILIZATION

RC	80			
RW	70	50	30	10
ROR				
0	97	97	97	97
1	87	82	78	74
2	78	71	65	60
3	71	62	55	49
4	65	54	47	41
5	59	48	40	35
6	54	43	35	30
7	50	38	31	26
8	46	35	27	22
9	43	31	24	19
10	40	28	22	17

Note: Values expressed as % of total lumen output delivered to the task surface.

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Dimming Compatibility *(continued)*

Amerlux® Grid Cove fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (*Dimmer, Fixture Quantity, Voltage, etc*) may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

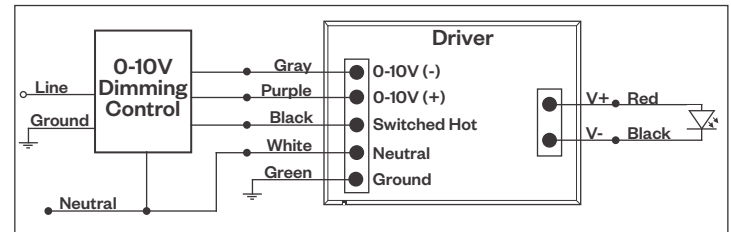
0-10V Dimming

Integrates into a variety of building management and daylighting controls

Notes:

- 120VAC or 277VAC*
- Dims down to 1% light output
- Requires interface to turn off power to driver
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

0-10V Wiring Diagram



Compatible Dimmers*:

Wall Box

Central System

Lutron "Diva" - DVSTV	Leviton Renoir II 0-10V	Lutron Grafik Eye with GRX-TVI Interface
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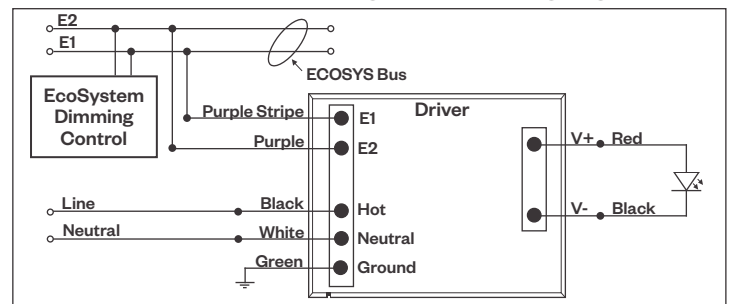
LUTRON LDE1 DIMMING

Integrates into Lutron EcoSystem building management

Notes:

- 120VAC or 277VAC*
- Dims down to 1% Soft-On/Fade-to-Black
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

LDE1 (HILUME-H-ECO) EcoSystem Digital Control Wiring Diagram



Compatible Dimmers*:

Lutron ECO System

Central System

Pow Pak Dimming Modules	Lutron EcoSystem compatible controls
Energi Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

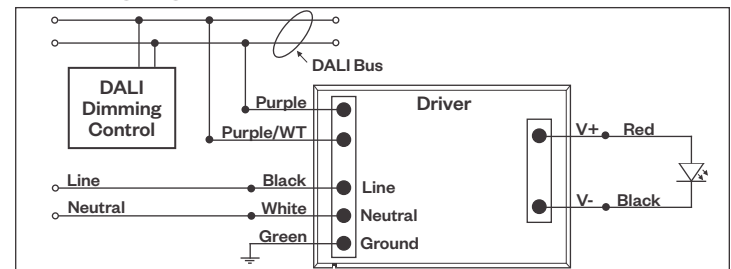
DALI - DALI DIMMING 120V-277V

Digital control protocol allows individual fixture control

Notes:

- 120VAC - 277VAC*
- Dims down to 1% light output in most cases

DALI Wiring Diagram



Notes:

* Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.

† The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.