Grüv® 2.5" Perimeter Cove

Recessed Linear LED

amerlux
A Delta Group Company

Features

Designed to provide high-performance, visually comfortable, high efficient comfortable perimeter ambient lighting with a 2.5" aperture for commercial and office environments. Featuring a 2.5" regress and a choice of ceiling interface options, Gruv 2.5 Cove is an effective and aesthetically pleasing way of lighting space perimeters.

Product Overview

Type:	Recessed Lens Direct
Wattage:	5W/ft, 10W/ft (other wattages available see p2)
Lumen Output:	3,662 max; 92.1 Lm/W (10W, 4ft fixture)
Color Temp:	2700K, 3000K, 3500K, 4000K
CRI:	83 typ. or 90+ typ
Dimming:	0-10V, 1% dimming (standard) Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black DALI dimming, 1% dim

PROJECT:

TYPE:

Fixture Summary *(see following pages for more information)*

Ceiling Types

9/16"	15/16"	Gyp Board	Millwork
Yes	CF*	Yes	Yes

**Consult factory*

Performance Chart

Wattage Per Foot	Delivered Lumens	LPW	Color Temp
5	1,972	99.5	3500K
10	3,662	92.1	3500K

Data is based on 3500K-83 IES files available on website
Data is based on 4' fixture with performance lens

Electrical Data

		4'		8'	
Wattage Per Foot		System Watts	Amps	System Watts	Amps
5	120V	22.3	0.18	41.9	0.35
	277V	22.9	0.09	41.6	0.16
10	120V	42.1	0.30	84.2	0.70
	277V	41.5	0.15	83.0	0.30

Electronic multi-volt (120-277VAC), constant current LED driver

c SP us 5 year limited warranty AMERLUX LED

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PROJECT: **TYPE:**

Ordering Information

_____.____.____.____.HW.120/277._____._____._____._____

1 2 3 4 5 6 7 8 9 10

1 Model
EDR-1730-GRUV2.5-IS-J/GB-COVE-A16 - j-mold/gyp board trimless
EDR-1730- GRUV2.5-IS-J/GRID-COVE-A16 - j-mold/grid
EDR-1730- GRUV2.5-IS-J/FLG-COVE-A16 - j-mold/flange

2 Optics
PL - performance lens (standard)
DL - designer lens

3 Wattage (per foot)
Standard:
5 - 5W/ft
10 - 10W/ft
Optional:
3 - 3W/ft (4' minimum length required)
4 - 4W/ft (4' minimum length required)
6 - 6W/ft
7 - 7W/ft
8 - 8W/ft
9 - 9W/ft

4 Color Temp

83 CRI:	90+ CRI:
27 - 2700K-83	**279** - 2700K-90+
30 - 3000K-83	**309** - 3000K-90+
35 - 3500K-83	**359** - 3500K-90+
40 - 4000K-83	**409** - 4000K-90+

5 Finish
HW - high reflectance white

6 Voltage
120/277

7 Length
_____ x _____ x _____
(Length A) (Length B) (Length C)

Length A (used for)	Length B (used for)	Length C (used for)
- all patterns	- all patterns	- PU
- IND	- PR - 2 lengths of 2	- PZ
- CON		
- CUS		

8 Configuration
IND[1] - individual fixture, 2' to 8' in 1' increments
CON - continuous run > than 8', specify to nearest foot
CUS - custom made to measure, +/- 1/8" of customer supplied field dimensions
Standard Patterns *(see page 8 for details)*:
PLL - L left, (2) straights + (1) 90° corner, leg right
PLR - L right, (2) straights + (1) 90° corner, leg left
PU - U shape, (3) straight lengths + (2) 90° corners
PR - Rectangle, (4) straight lengths + (4) 90° corners
PZ - Z shape, (3) straight lengths + (2) 90° corners

9 Drivers
0-10V - 1% electronic dimming , multi-volt (120-277VAC) constant current driver (standard).
HILUME-H-ECO - Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black
DALI - DALI Dimming 120-277VAC, 1% dim

10 Options/Accessories
CP - Chicago Plenum (CCEA)
WHIP - 6' whip, 18/5 conductor
EMC-PF[2] - emergency circuit requires power feed located in last fixture section (for other locations consult factory)
PF[2] - Extra power feed for additional circuiting
FC - section at the end of the row designed to be field cuttable up to 6" to provide on-site fixture length flexibility

1 - Lengths less than 4' may have restrictions based upon wattage, lengths, drivers or other options.
2 - Not available with IND (individual) configuration.
† The "A" refers to the sequential revision in a year and "XX" refers to the year of update. Updates coincide with improved performance while not changing the overall fixture aesthetic and are reflected in the published performance data. Please contact your Amerlux representative for explanations of changes.

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Grüv® 2.5” Perimeter Cove

Recessed Linear LED

PROJECT: **TYPE:**

Specifications

Application

Commercial and retail recessed perimeter cove ambient lighting.

Construction

Heavy gauge steel upper housing is secured to aluminum extruded trim rails. Die-formed, cold-rolled steel internal components and external mounting brackets. Numerous configurations accommodate most architectural ceiling conditions.
Die formed steel cove walls - powder coat painted.

Optical

All lenses are snap-in, extruded acrylic, with a maximum length of 8'. Amerlux's proprietary acrylic lens provide excellent transmission while effectively concealing source image.
PL - Performance Lens provides high efficiency with controlled lens surface brightness (standard).
DL - Designer Lens provides flat even glow on lens. Best when lens is in direct or constant view. Such as vertical wall mounted.

LED

Amerlux's boards and patented connector design with brand name LEDs enables Amerlux fixtures to have excellent thermal management and offer a 5 year warranty. Our LED binning is within 3 MacAdam ellipse. Boards are configured for maximum flexibility resulting in even illumination no matter the fixture layout. LED boards are easily replaced in the field with just a Phillips screw driver.
Color Temperature Options: 2700K, 3000K, 3500K, 4000K
CRI: 83 typical, 90+ typical
R9: 16 @ CRI 83
R9: >50 @ CRI 92
Life: 50,000+ hr., > 70% of initial lumens (L70)

Electrical

Wiring: Supply wires are easily accessible through access plate on top of fixture.
WHIP: Optional factory installed 6' Greenfield whip (18/5 conductor) simplifies installation.
Standard Wattage: 5W/ft, 10W/ft.
Optional Wattages: 3W/ft, 4W/ft, 6W/ft, 7W/ft, 8W/ft, 9W/ft. (3W & 4W have a minimum length of 4'). For other wattages consult factory.
Emergency circuit via remote inverter or auxiliary emergency power supply (by others).
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.
EMC-PF - Emergency circuit requires power feed to be located in last fixture section for continuous runs. For other locations consult factory. Not available for individual (IND) configuration.
PF - Extra power feed for additional circuiting. Not available for individual (IND) configuration.

Finish

HW - High reflectance, matte white powder coat paint. Baked on finish for maximum durability and color stability.

Configurations/Lengths

IND - Individual fixtures are made of single standard lengths of 2 ft to 8 ft (in 1' increments). These are stand alone fixtures with matching End Caps, supplied with the mounting hardware. Lengths less than 4' may have restrictions based upon wattage, lengths, drivers or other options.
CON - Continuous runs, > 8', specified to nearest whole foot length in 1' increments. Runs made from standard lengths have End Caps at the beginning and end of run. Runs > 60' may require second power feed. Each Housing has factory installed alignment pins. Mating fixtures are easily aligned and joined with "catch and latch" mechanisms out of sight, on top of the Housing. Wiring is made fast and positive with molded quick connectors.
CUS - Custom made to measure runs are made to nearest 1/8"of customer supplied field measurements or drawings. Custom lengths use the same hardware for hairline joining.
PXX - Standard Patterns consist of 90º corners with standard lengths (4' to 8' in 1' increments), continuous runs or made to measure lengths. Depending upon complexity of the pattern drawings may be required from the Customer. If ordering please give overall lengths.
A'-B'-PLL - L Left - (1) 90º Corner 2 segments. Specify overall segments: A' & B'
A'-B'-PLR - L Right - (1) 90º Corner 2 segments. Specify overall segments: A' & B'
A'-B'-PR - Rectangle - (4) 90º Corners joining 4 segments. Specify overall segments: A' & B'
A'-B'-C'-PU - U shape - (2) 90º Corners joining 3 segments. Specify overall segments: A', B', & C'
A'-B'-C'-PZ - Z shape - (2) 90º Corners joining 3 segments. Specify overall segments: A', B', & C'
See page 8 for layouts.

Mounting

Intended for use in gypsum board, 9/16" Tee grid and Screw Slot, and millwork ceilings. Wall mounting J-Molding details available. For individual, continuous row, or pattern applications.
***Please note* - fixtures to be installed before gypsum board ceiling.**
GRUV2.5-IS-J/GB-COVE - J mold/gyp trimless, plastered in ceiling - J Channel wall side
GRUV2.5-IS-J/GRID-COVE - J mold/grid, in 9/16" Screw Slot or Flat Tee ceilings - J Channel wall side
GRUV2.5-IS-J/FLG-COVE - J mold/flange - J Channel wall side

Options

FC - section at the end of the row designed to be field cuttable up to 6" to provide on-site fixture length flexibility. Please refer to the Field Cuttable Installation Instructions on our website for more details.
Note: The length of the field cuttable section can only be reduced, not increased. For example: if a 17'-6" long fixture is specified, adjustable lengths are between 17' to 17'-6".

Certifications

Approved to UL standards for damp locations as tested by CSA Intended for indoor use only
Chicago Plenum (CCEA) optional

Warranty

Amerlux's 5 year limited warranty. Please consult Amerlux website for details.

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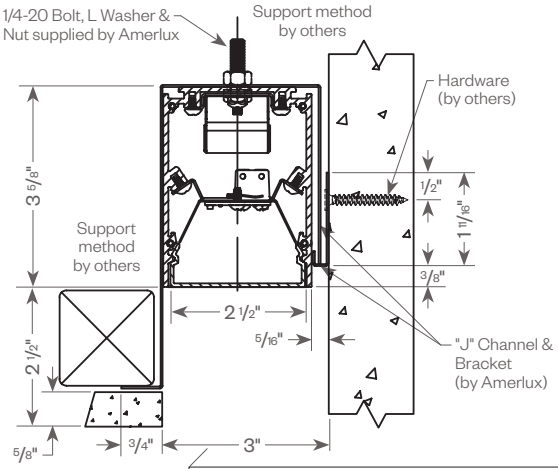
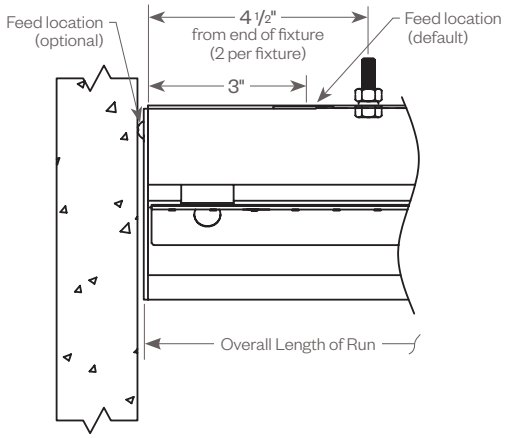
PROJECT: **TYPE:**

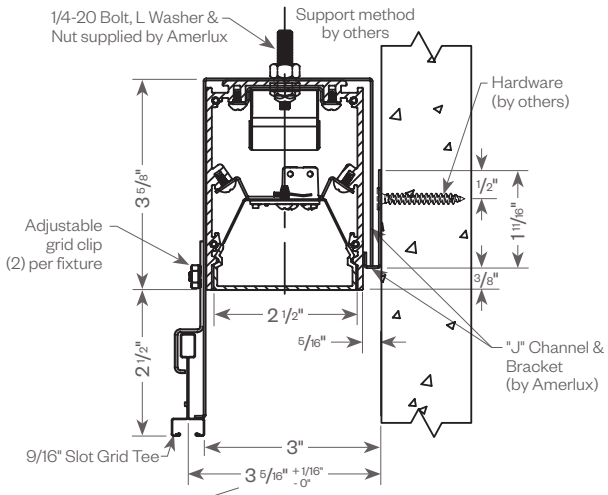
GRÜV2.5-IS-J/GB-COVE (j-mold/gyp board trimless)

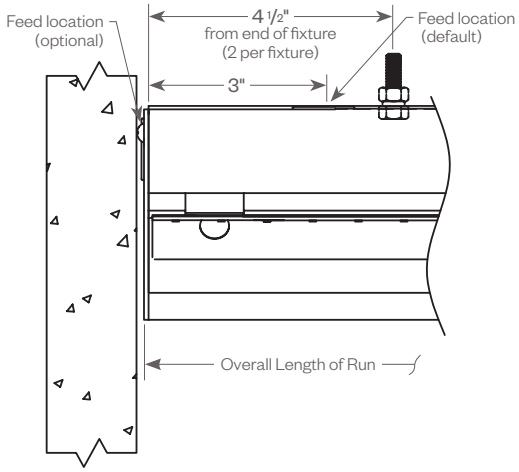




THIS DIMENSION MUST BE HELD **BY INSTALLER** FOR THE FULL LENGTH OF THE RUN

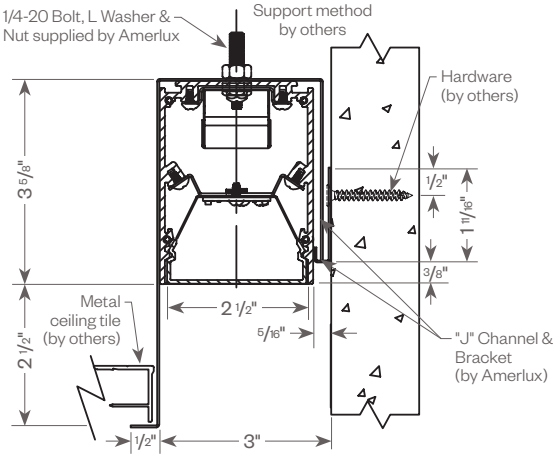
GRÜV2.5-IS-J/GRID-COVE (j-mold/grid mount)

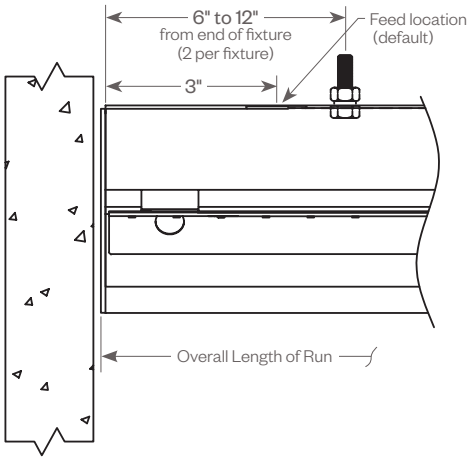




TEE MOUNTING DIMENSION MUST BE HELD **BY INSTALLER** FOR THE FULL LENGTH OF THE RUN

GRÜV2.5-IS-J/FLG-COVE (j-mold/flange)





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PROJECT: **TYPE:**

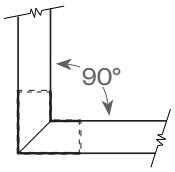
GRUV 2.5" PATTERNS:

Standard Patterns

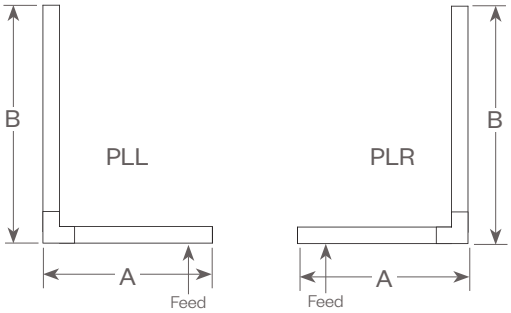
All corners are standard 90°, standard length legs.
Use standard lengths: 4' min to 8' in 1 foot increments.
Continuous runs must be the same length in pairs for closed configuration.

Custom Patterns

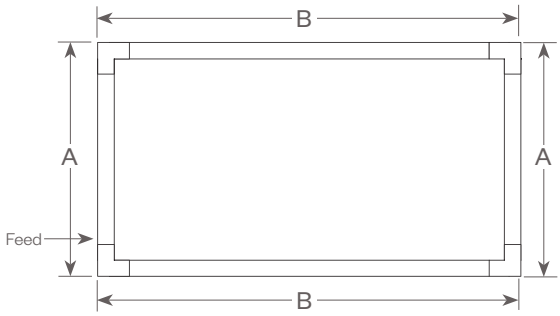
Please provide drawings of your configuration.
Made to Measure: +/- 1/8", consult factory.
PC - custom pattern, please provide drawings and consult factory



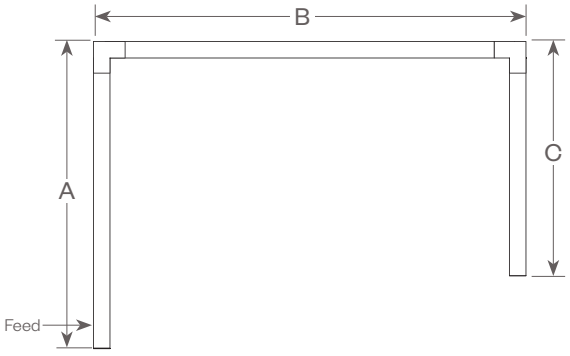
Gruv 2.5 Lens
Mitered Lens



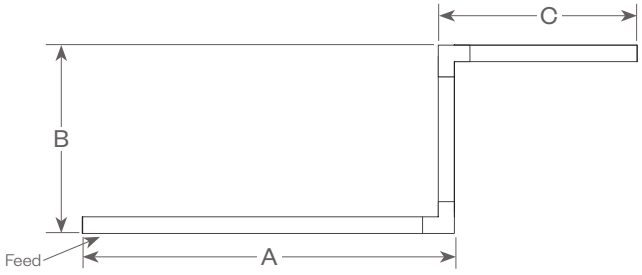
PLL - L Left, (2) straights + (1) 90° corner, leg right
PLR - L Right, (2) straights + (1) 90° corner, leg left
Provide overall lengths: A' & B'
Nomenclature: A-B-PLL A-B-PLR



PR - Closed Rectangle, (4) straight lengths + (4) 90° corners
Provide overall lengths: A' & B'
Nomenclature: A-B-PR



PU - Open U, (3) straight lengths + (2) 90° corners
Provide overall lengths: A', B' & C'
Nomenclature: A-B-C-PU



PZ - Open Z, (3) straight lengths + (2) 90° corners
Provide overall lengths: A', B' & C'
Nomenclature: A-B-C-PZ

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PROJECT: **TYPE:**

FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

MULTIPLYING FACTORS: (Multiplying Factor is based on 3500K-83 120V IES file on website)

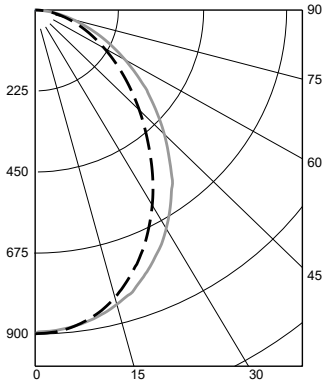
Wattage:	3W	4W	5W	6W	7W	8W	9W
Factor:	0.63	0.82	1.0	1.17	1.34	1.50	1.64

CCT-CRI:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	3500K-90+	4000K-90+
Factor:	0.91	0.96	1.0	1.01	0.80	0.84	0.88	0.89

GRÜV 2.5" PERFORMANCE LENS 5W 3500K 4FT

Total Watts: 20
Total Lumens: 1,972
Source: 128 White LEDs

LTL# 11665872.21



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1028	52.1
0-60	1645	83.4
0-90	1971	100.0
90-180	0	0.0

Luminaire Efficacy = 99.5 lm/w

COEFFICIENTS OF UTILIZATION

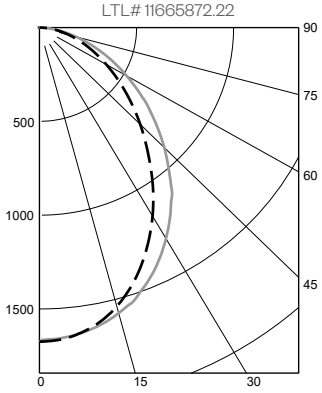
RC	80			
RW	70	50	30	10
RCR				
0	2292	2292	2292	2292
1	2108	2029	1958	1894
2	1930	1792	1677	1579
3	1770	1592	1453	1340
4	1630	1425	1273	1155
5	1507	1285	1128	1010
6	1398	1167	1008	893
7	1302	1065	909	798
8	1217	978	825	718
9	1141	903	754	652
10	1074	837	693	596

Note: Values expressed as Lumens delivered to the task surface.

GRÜV 2.5" PERFORMANCE LENS 10W 3500K 4FT

Total Watts: 40
Total Lumens: 3,662
Source: 128 White LEDs

LTL# 11665872.22



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1910	52.1
0-60	3056	83.4
0-90	3662	100.0
90-180	0	0.0

Luminaire Efficacy = 92.1 lm/w

COEFFICIENTS OF UTILIZATION

RC	80			
RW	70	50	30	10
RCR				
0	4258	4258	4258	4258
1	3915	3769	3637	3517
2	3584	3328	3115	2933
3	3288	2957	2698	2489
4	3028	2648	2365	2146
5	2799	2388	2095	1876
6	2598	2167	1873	1659
7	2419	1979	1688	1482
8	2261	1818	1533	1335
9	2121	1678	1401	1212
10	1995	1556	1288	1107

Note: Values expressed as Lumens delivered to the task surface.

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PROJECT: **TYPE:**

FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

MULTIPLYING FACTORS: (Multiplying Factor is based on 3500K-83 120V IES file on website)

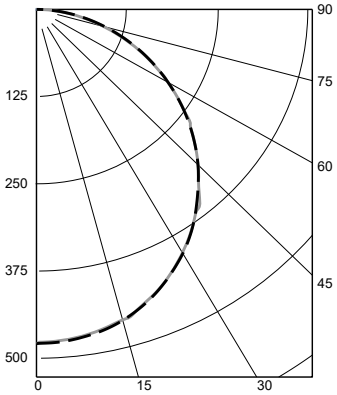
Wattage:	3W	4W	5W	6W	7W	8W	9W
Factor:	0.63	0.82	1.0	1.17	1.34	1.50	1.64

CCT-CRI:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	3500K-90+	4000K-90+
Factor:	0.91	0.96	1.0	1.01	0.80	0.84	0.88	0.89

GRÜV 2.5" DESIGNER LENS 5W 3500K 4FT

Total Watts: 20
Total Lumens: 1383
Source: 128 White LEDs

LTL# 11665872.23



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	609	44.0
0-60	1074	77.7
0-90	1383	100.0
90-180	0	0.0

Luminaire Efficacy = 69.8 lm/w

COEFFICIENTS OF UTILIZATION

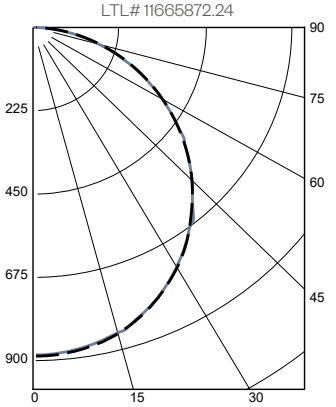
RC	80			
RW	70	50	30	10
RCR				
0	1609	1609	1609	1609
1	1462	1400	1344	1293
2	1324	1218	1129	1053
3	1205	1068	962	876
4	1102	947	831	742
5	1013	846	727	639
6	935	762	644	558
7	868	691	575	492
8	808	631	518	439
9	756	580	470	395
10	709	536	430	358

Note: Values expressed as Lumens delivered to the task surface.

GRÜV 2.5" DESIGNER LENS 10W 3500K 4FT

Total Watts: 40
Total Lumens: 2567
Source: 128 White LEDs

LTL# 11665872.24



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1130	44.0
0-60	1993	77.7
0-90	2567	100.0
90-180	0	0.0

Luminaire Efficacy = 64.6 lm/w

COEFFICIENTS OF UTILIZATION

RC	80			
RW	70	50	30	10
RCR				
0	2985	2985	2985	2985
1	2712	2597	2494	2400
2	2457	2260	2095	1954
3	2235	1983	1784	1625
4	2044	1756	1542	1376
5	1879	1570	1350	1185
6	1736	1414	1194	1034
7	1610	1283	1067	914
8	1500	1172	961	815
9	1402	1076	873	733
10	1316	994	797	665

Note: Values expressed as Lumens delivered to the task surface.

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PROJECT: **TYPE:**

DIMMING COMPATIBILITY:

Amerlux® Gruv 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 ---

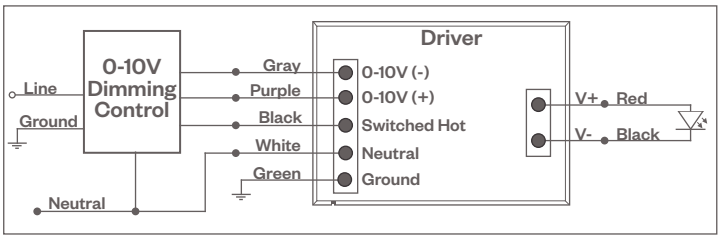
0-10V - DIMMING (Standard)

Integrates into a variety of building management and daylighting controls

Notes:

- 120V or 277V*
- 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

Lutron:	Wattstopper:	Leviton:
Diva - DVSTV	ADF-120277	Renoir II
Maestro - MS-Z101		
Nova-T - NTSTV-DV		

Center System

Lutron Grafixk Eye with GRX-TV1 Interface

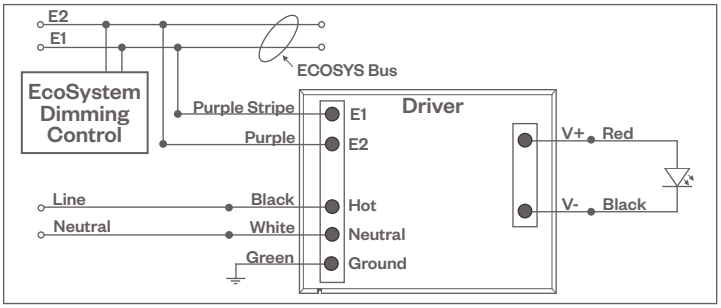
LUTRON LDE1 DIMMING

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!

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



Compatible Dimmers†:

Lutron ECO System

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

Central System

Lutron EcoSystem compatible controls

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.

Amerlux reserves the right to change details that do not affect overall function and performance.
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Grüv® 2.5" Perimeter Cove

Recessed Linear LED

amerlux
A Delta Group Company

PROJECT: **TYPE:**

DIMMING COMPATIBILITY:

Amerlux® Gruv 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 ---

DALI - DALI DIMMING 120V-277V

Digital control protocol allows individual fixture control

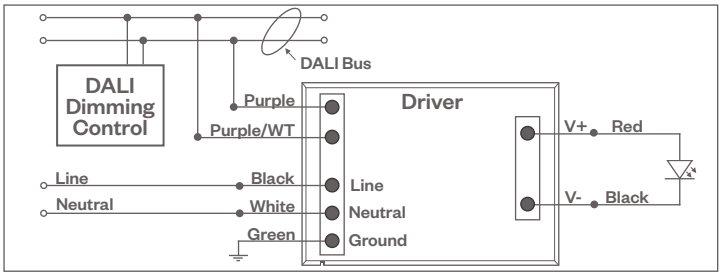
Notes:

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

Compatible Dimmers†:

Wall Box	Center System
Leviton CD250 Controller	Dynalite
	Fifth Light

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.

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