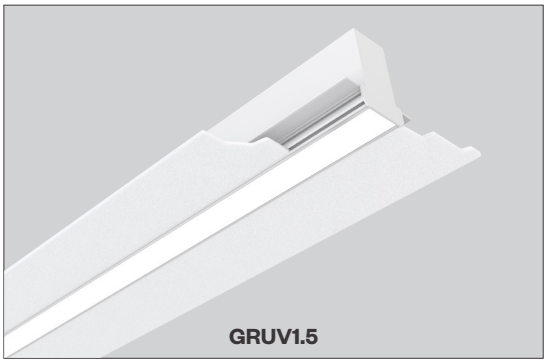
Grüv® 1.5”

Recessed Linear LED

PROJECT: **TYPE:**

Features

Prized for classic good looks, performance and flexibility, Grüv has taken a turn for the edgy. This Bauhaus-influenced family of linear LEDs has just expanded–by getting smaller. The Grüv 1.5” LED can climb walls, cross ceilings, literally go everywhere your design wants it to be. Get into Grüv. Perfect linear design, every time.



Product Overview

Type:	Recessed Linear, Direct	
Wattage:	5W/ft, 10W/ft *(other wattages available see p2)*	
Color Temp:	2700K, 3000K, 3500K, 4000K; Tunable White *(2700K-5700K)*	
CRI:	83 or 90+ typ. *(2700K, 3000K, 3500K, 4000K)* 90+ *(Tunable White)*	
	Static White	Tunable White
Dimming *(wired)*:	0-10V, 1% dimming *(standard)* Lutron LDE1 Hi-lume® 1% Dim Soft-On/Fade-to-Black DALI dimming, 1% dim	0-10V TW, 1% dimming DALI DT8, 1% digital dimming
Dimming *(wireless)*:	Lutron Athena *(integral wireless RF node)* BubblyNet Bluetooth	Lutron Athena TW *(integral wireless RF node)*

**International version available, see website for spec sheet.*

Certifications

5 year limited warranty AMERLUX LED

Fixture Summary

Ceiling Types

4” Tech Zone	6” Tech Zone	9/16”	15/16” *	Gyp Board	Millwork	Perimeter J-Mold
No	No	Yes	Yes	Yes	Yes	Yes

** Flange Grid (GRUV1.5-FLG-GRID) model only.*

Performance Data

Nominal Wattage/Foot	Delivered Lumens	LPW	Color Temp-CRI
5	1920	105.2	3500K-83
10	3691	101.1	3500K-83

Data is based on 4’ fixture with Performance lens, 3500K, 83CRI IES files available on website.

Electrical Data

		4’		8’	
Wattage/Foot	Voltage	System Watts	Amps	System Watts	Amps
5	120V	18.2	0.15	36.5	0.30
	277V	18.2	0.07	36.5	0.13
10	120V	36.5	0.30	73.0	0.61
	277V	36.5	0.13	73.0	0.26

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

Standard Patterns

L	⌟	⊔	□	⌝	Wall to Ceiling	Custom*
Yes	Yes	Yes	Yes	Yes	Yes	Yes

** Submit drawing, consult factory*

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Recessed Linear LED

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PROJECT:	TYPE:

Ordering Information

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

1 2 3 4 5 6 7 8 9 10

1 Model

GRUV1.5-FLG-A16† exposed flange
GRUV1.5-FLG-GRID-A16† exposed flange grid mount
GRUV1.5-GB-A16† gyp board trimless mud-in
GRUV1.5-GRID-A16† grid mount
GRUV1.5-IS-A16† independently suspended, millwork
GRUV1.5-J/GB-A16† j-mold/gyp board trimless
GRUV1.5-J/GRID-A16† j-mold/grid
GRUV1.5-J/IS-A16† j-mold/independently suspended

2 Optics

PL performance lens *(standard)*
SLDW straight blade louver, white aluminum, solid blades w/overlay
SLDB straight blade louver, black, solid blades w/overlay
SLDS straight blade louver, silver, solid blades w/overlay
ASY asymmetric lens
GRZ grazer lens *(suggest cove installation, see pg 7)*
DRP1 1" drop lens

3 Wattage *(per foot)*

Standard	Optional
5 5W/ft	**3** 3W/ft*
10 10W/ft	**4** 4W/ft**
	6 6W/ft
	7 7W/ft
	8 8W/ft
	9 9W/ft

** 4' min. length required*
‡ DLC listed (see notes below)

4 Color Temp-CRI

Static White

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

Tunable White
TW9-2757 tunable white, 90CRI *(2700K-5700K)*

5 Finish

HW high reflectance matte white

6 Voltage

120/277

7 Length

_____ X _____ X _____

Length A	Length B	Length C
- all patterns - IND/IND-S+ - CON/CON-S+ - CUS	- all patterns - PR (2 lengths of 2)	- PU - PZ

8 Configuration

IND[1] individual fixture, 2' to 8' in 1' increments
IND-S+ individual with standard plus *(see pg 8 for GRID or J/GRID only)*
CON continuous run > than 8', specify to nearest foot
CON-S+ continuous run with standard plus *(see pg 8 for GRID or J/GRID only)*
CUS custom made to measure, ± 1/8" of customer supplied field dimensions

Standard Patterns *(see pg 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 shape, *(4)* straight lengths + *(4)* 90° corners
PZ Z shape, *(3)* straight lengths + *(2)* 90° corners
PWC wall to ceiling *(1)* 90° corner joining *(2)* segments
For custom patterns, submit an EDR on amerlux.com

9 Drivers/Controls

Wired - Static White
0-10V 1% analogue dimming, 120-277VAC, dim to off when selected with wireless dimming control
HILUME-H-ECO Lutron LDE1 Hi-lume® 1% dim Soft-On/Fade-to-Black
DALI DALI dimming 120-277VAC, 1% dim
Wired - Tunable White
0-10V-TW 1% dimming, multi-volt *(120V-277V)* constant current
DALI-DT8 1% digital dimming, CCT control per DALI DT8 *(120V-277V)* constant current
Wireless - Static White
AWNR-WH-SR Lutron Athena wireless node, RF only, white, D4i/DALI-2
AWNR-BL-SR Lutron Athena wireless node, RF only, black, D4i/DALI-2
AWNR-WH-010 Lutron Athena wireless node, RF only, white, 0-10V
AWNR-BL-010 Lutron Athena wireless node, RF only, black, 0-10V
AWNR-OCC-WH-SR Lutron Athena wireless node, Occupancy & Daylight sensor, white, D4i/DALI-2
AWNR-OCC-BL-SR Lutron Athena wireless node, Occupancy & Daylight sensor, black, D4i/DALI-2
AWNR-OCC-WH-010 Lutron Athena wireless node, Occupancy & Daylight sensor, white, 0-10V
AWNR-OCC-BL-010 Lutron Athena wireless node, Occupancy & Daylight sensor, black, 0-10V
BN-BT-OCC-WH-SR BubblyNet Bluetooth node, Occupancy & Daylight sensor, white, D4i/DALI-2
BN-BT-OCC-WH-010 BubblyNet Bluetooth node, Occupancy & Daylight sensor, white, 0-10V
Wireless - Tunable White
AWNR-WH-SR-TW Lutron Athena wireless node, RF only, white, D4i/DALI-2
AWNR-BL-SR-TW Lutron Athena wireless node, RF only, black, D4i/DALI-2
AWNR-OCC-WH-SR-TW Lutron Athena wireless node, Occupancy & Daylight sensor, white, D4i/DALI-2
AWNR-OCC-BL-SR-TW Lutron Athena wireless node, Occupancy & Daylight sensor, black, D4i/DALI-2

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
EMB emergency battery pack *(not available for lengths under 4')*

† 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.
‡ DLC listed *(4W fixture in 4', 5', 6', 7', 8' and runs to the neares whole foot)*
[1] Lengths less than 4' may have restrictions based upon wattage, lengths, drivers or other options.
[2] Not available with IND *(individual)* configuration.

Grüv® 1.5”

Recessed Linear LED

PROJECT: **TYPE:**

Specifications

Application

Commercial and retail recessed ambient lighting can be customized with made to measure lengths, patterns, ceilings or wall mounted fixtures.

Construction

One piece extruded aluminum housing and trim. Die-formed, cold-rolled steel internal components and external mounting brackets. Numerous configurations accommodate most architectural ceiling conditions.

Optical

All lenses are snap-in, extruded acrylic, with a maximum length of 8’. Fixtures shipped with lenses installed. Amerlux's proprietary acrylic lens provides excellent transmission while effectively concealing source image. All louvers are retained with spring clips attached to louver side rails, for good fit and retention.

PL - Performance Lens provides high efficiency with greater lens surface brightness.

SLD - Straight blade Louver Direct has 0.5" high blades 0.493" on center with overlay.

ASY - Asymmetric 20º throw lens is backed high diffusion film that eliminates striations.

GRZ - Grazer lens for highlighting wall surfaces. Suggest cove installation. No overlay is used to enhance grazing performance. *(see page 7)*

DRP1 - 1" Drop lens with illuminated end caps

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.

	Static White	Tunable White
CCT:	2700K, 3000K, 3500K, 4000K	2700K-5700K
CRI:	83 or 90+ typical	90+ *(92 typ)*
R9:	16 @ CRI 83; >50 @ CRI 90+	>50

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 damage is not covered under warranty.

EMC-PF - Emergency circuit requires power feed wire harness 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 wire harness 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’ to 8’ *(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.

S+ - Standard Plus is a field cuttable filler bracket that can be used when an Individual fixture or a Continuous run isn't to the nearest foot *(+3/4" to 6" max per end). See page 8 for details.*

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'

A'-B'-PWC - Wall to Ceiling - 90º joining bracket. Specify overall segments: A' & B'

See page 8 for layouts.

Please note: Corners have lit mitered Lens.

For custom patterns, submit an EDR on amerlux.com

Mounting

Intended for use in gypsum board, 9/16" Tee grid or Screw Slot, 15/16” Tee grid 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.

GRUV1.5-FLG-A16 - exposed flange, fixture into gyp board ceiling

GRUV1.5-FLG-GRID-A16 - exposed flange grid mount, fixture into 9/16" or 15/16” Tee ceilings

GRUV1.5-GB-A16 - gyp trimless mud, fixture plastered into gypsum board ceiling

GRUV1.5-GRID-A16 - grid mount, in 9/16" Screw Slot or Flat Tee ceilings

GRUV1.5-IS-A16 -independently suspended, fixture in wood ceiling

GRUV1.5-J/GB-A16 - J mold/gyp trimless, plastered in ceiling - J Channel wall side

GRUV1.5-J/GRID-A16 - J mold/grid, in 9/16" Screw Slot or Flat Tee ceilings - J Channel wall side

GRUV1.5-J-IS-A16 - J mold/independently suspended in ceiling - J Channel wall side

Options

EMB - Emergency battery pack - 10W output power, 90 min of illumination time, up to 1300 lm of initial light output. Illuminated test-switch/charging indicator light is provided. Wattage consumption by EM: 2.5W/ft *(4ft fixture)*, 1.66W/ft *(6ft fixture)*, 1.25W/ft *(8ft fixture)*. Request can be made to light up 4ft section on 8ft unit.

Certifications

Approved to UL standards for damp locations as tested by CSA.

Intended for indoor use only

Chicago Plenum *(CCEA)* optional.

IC rated

Warranty

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

Grüv® 1.5”

Recessed Linear LED

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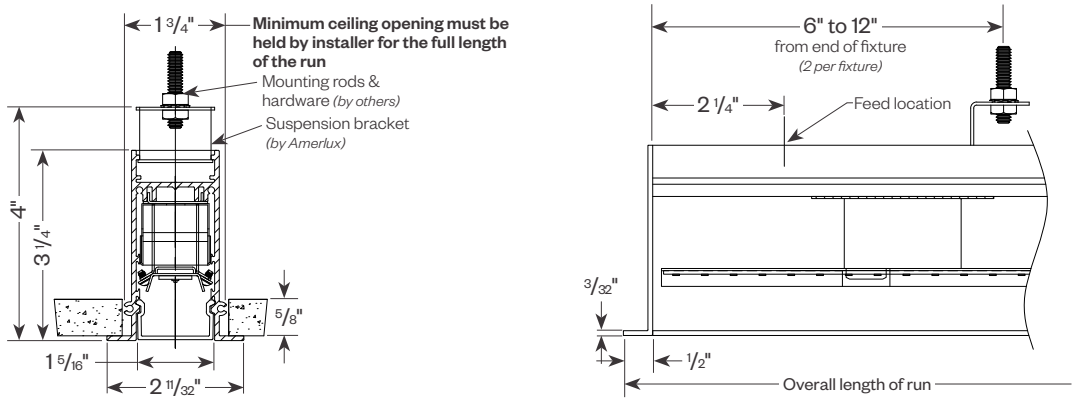
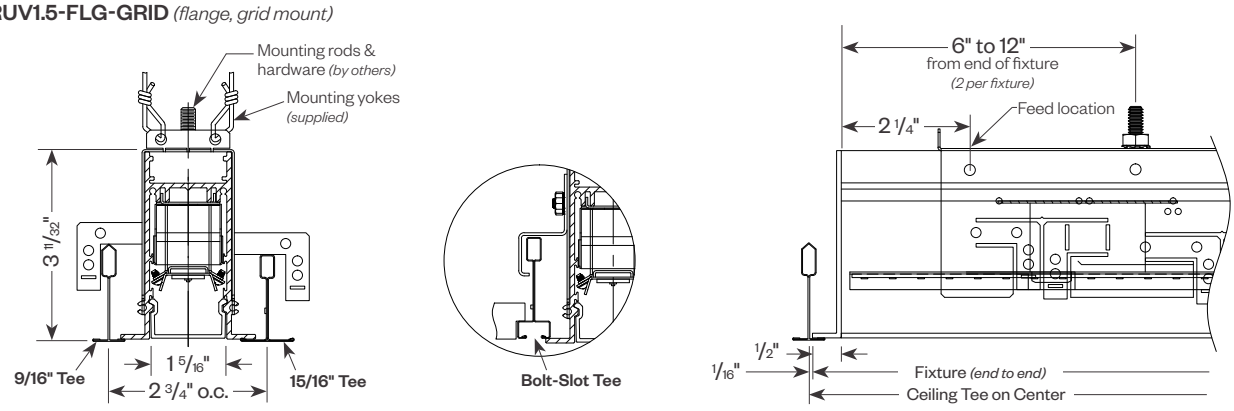
PROJECT:	TYPE:

Product Details

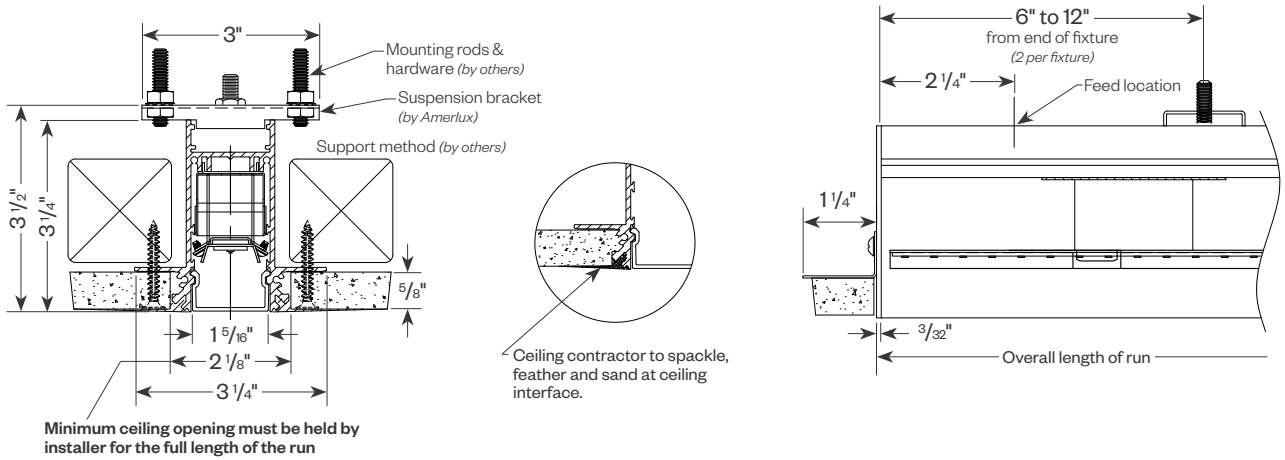
GRUV1.5-FLG *(exposed flange)*



GRUV1.5-FLG-GRID *(flange, grid mount)*



GRUV1.5-GB *(gyp board trimless mud-in)*



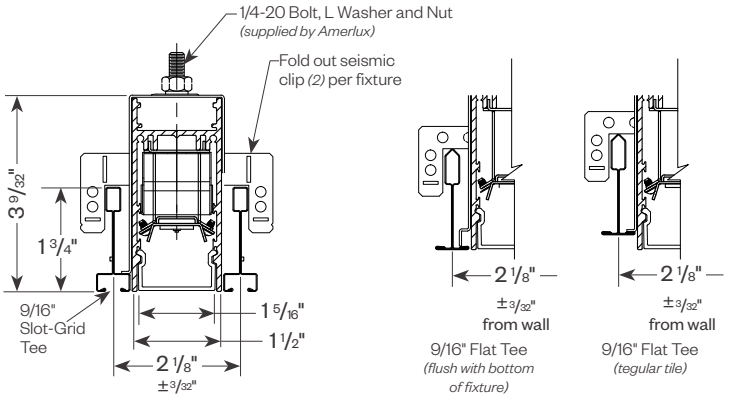
PROJECT: **TYPE:**

Product Details *(continued)*

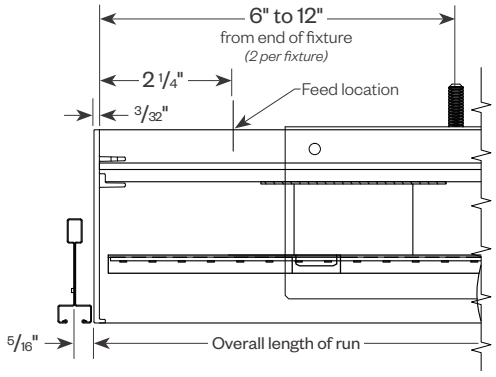
GRUV1.5-GRID *(grid mount)*

Compatible *(see pg 8)*

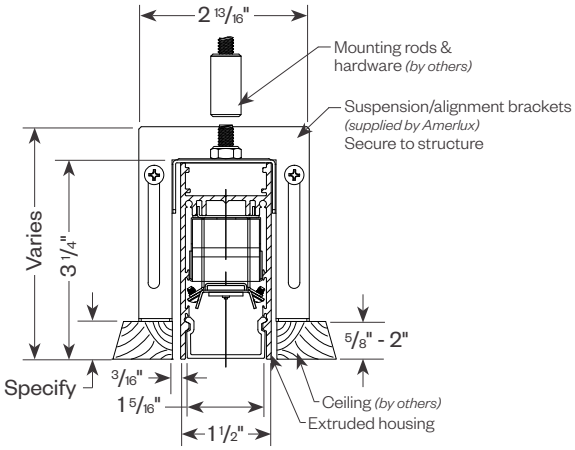
STANDARD PLUS

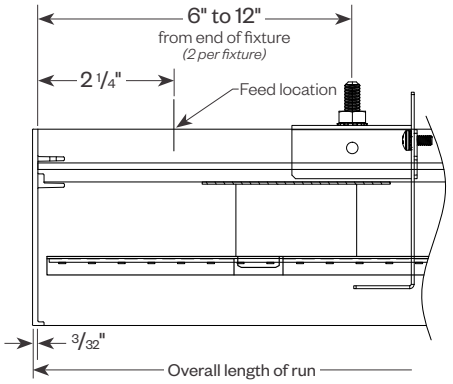


Note: 9/16" Grid Only



GRUV1.5-IS *(independently suspended)*





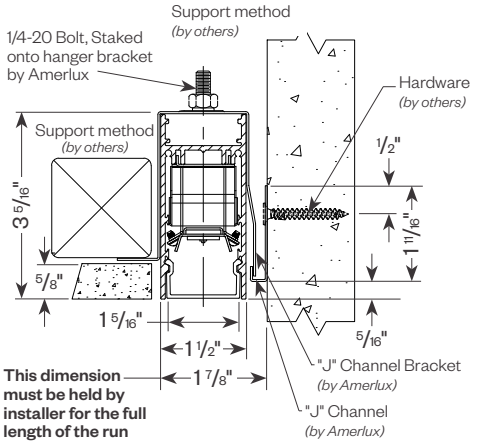
Grüv® 1.5”

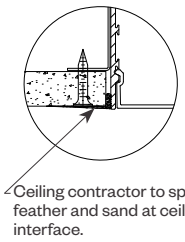
Recessed Linear LED

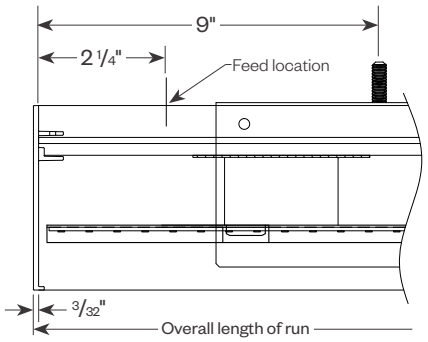
PROJECT: **TYPE:**

Product Details *(continued)*

GRUV1.5-J/GB *(j-mold/gyp board trimless)*



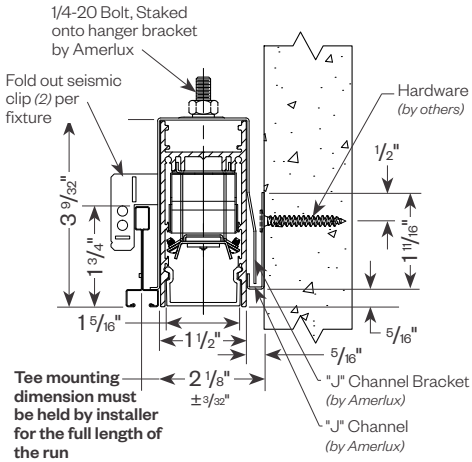


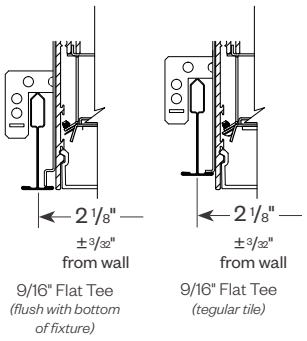


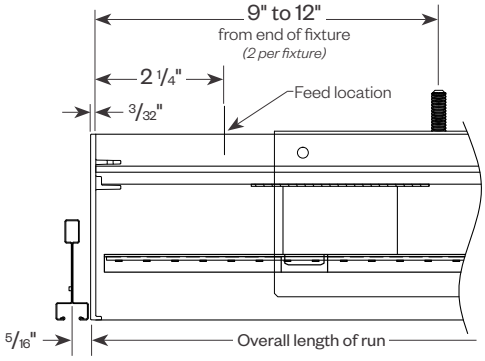
GRUV1.5-J/GRID *(j-mold/grid mount)*

Compatible *(see pg 8)*

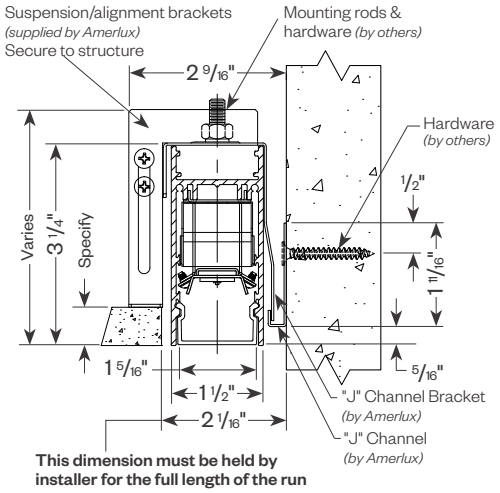
STANDARD PLUS

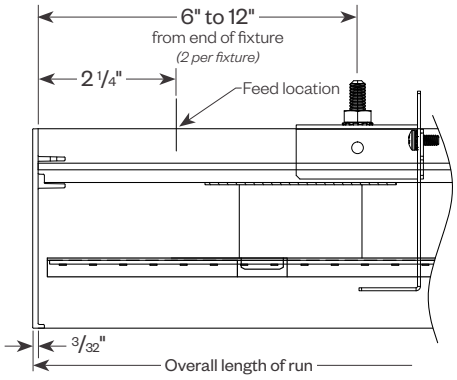






GRUV1.5-J/IS *(j-mold/independently suspended)*





Grüv® 1.5”

Recessed Linear LED

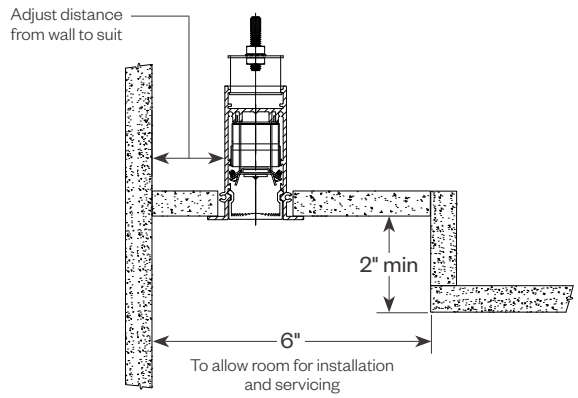
amerlux

PROJECT:	TYPE:

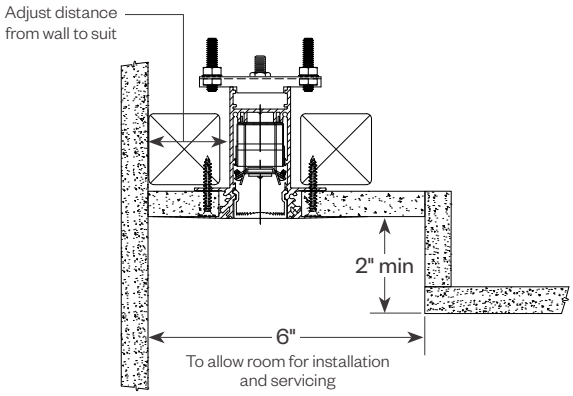
Grazer Lens Options

The Grazer Lens for the Gruv 1.5 was created to provide an effective and low cost wall grazing lighting tool. A cove or valance is suggested to block direct glare at mid to high angles. Surface mounting requires the housing to be attached to the structure above. Some fixture disassembly and reassembly required.

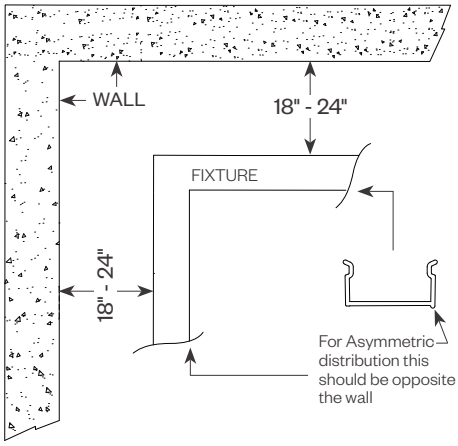
GRUV1.5-FLG-GRZ *(exposed flange)*



GRUV1.5-GB-GRZ *(gyp board trimless mud-in)*

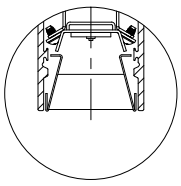


Asymmetric Lens Options

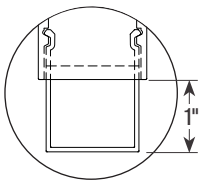


NOTE: Not available for GRUV1.5-FR-GRID

Optional Louver/Drop Lens



Optional Louver



Optional Drop Lens

Grüv® 1.5”

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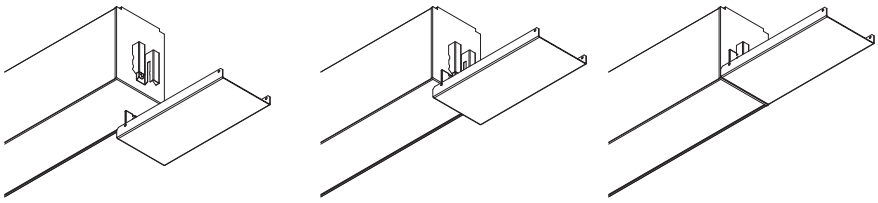
PROJECT: **TYPE:**

STANDARD PLUS

STANDARD PLUS (FILLER):

Whenever a continuous run is less than a foot to the next full foot length consider ordering Standard Plus field cuttable bracket for a perfect look. Fits 9/16" Slot Grid and 9/16" T grid. It snaps in place easily from below and gets you close to the wall with a standard fixture. Saves time and money compared to made-to-measure. *(max length: 6")*

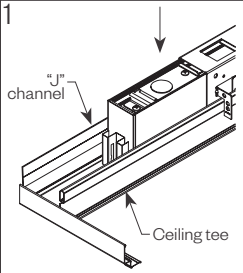
GRID VERSION



NOTE: Use with Gruv1.5-Grid and Gruv1.5-J/Grid

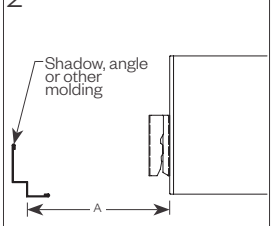
FILLER TRIM AND INSTALLATION *(GRUV 1.5 GRID SHOWN HERE)*

1



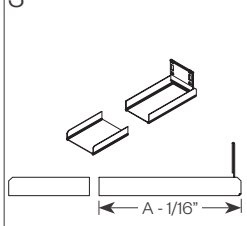
Install fixture in grid & “J” channel in its final position in row without securing to grid, rod or adjacent fixture.

2



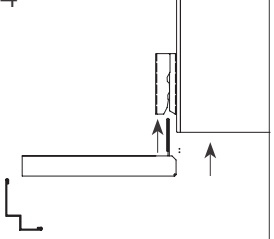
Measure distance “A” from fixture end cap to backside of molding surface where filler will rest.

3



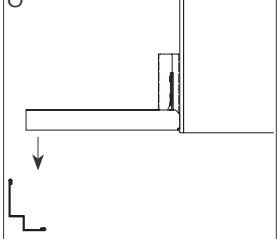
Trim filler as shown to length ***A minus -1/16”***

4



Lift end of fixture above height of tee and snap end filler into retaining spring so that it seats level with bottom of fixture.

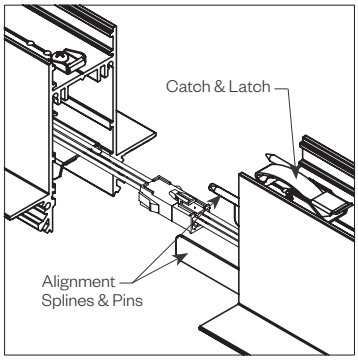
5

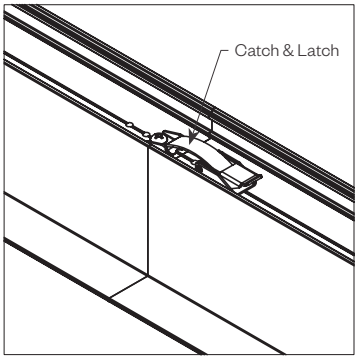


Carefully reinstall fixture in grid and final secure per installation instructions.

Toolless Joining

Line up the two housings by using the alignment splines & pins. Secure them together by using the Catch & Latch System on the top of the extrusion.



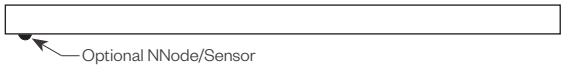


Optional Sensor/RF Node

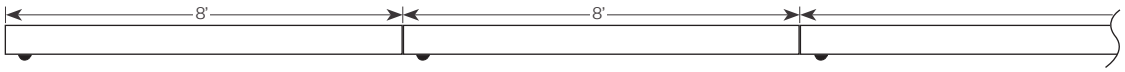
Amerlux® has partnered with control companies to create building environments that are safer and smarter, than ever before. At the heart of our partnership is intelligent RF nodes and Smart Sensor, the most advanced digital wireless communication and sensors available today. Integrated into Amerlux products.

Minimum run length is 3' for wireless sensor and RF node.

INDIVIDUAL (MIN 3' LENGTH)



RUNS



Grüv® 1.5”

Recessed Linear LED

amerlux

PROJECT:	TYPE:

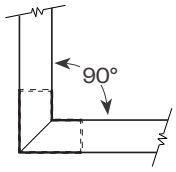
Gruv 1.5” Patterns

Standard Patterns

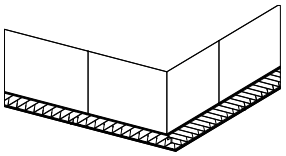
All corners are standard 90°, standard length legs.
Use standard lengths: 4' min to 8' in 1 foot increments.
Continuous runs must be the same length in pairs for closed configuration.

Custom Patterns

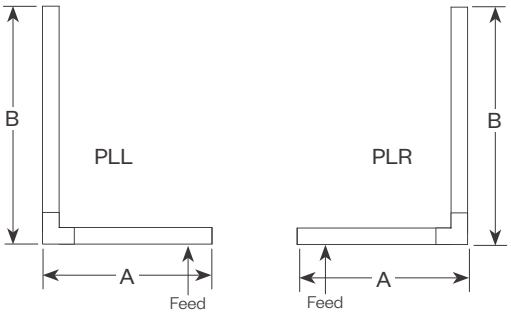
Please provide drawings of your configuration.
Made to Measure: +/- 1/8", consult factory.
PC - custom pattern, please provide drawings and consult factory



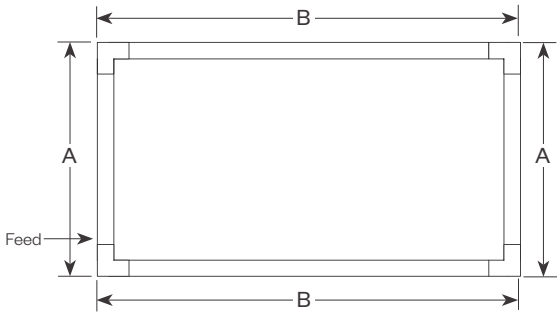
Gruv 1.5 Lens
Mitered Lens



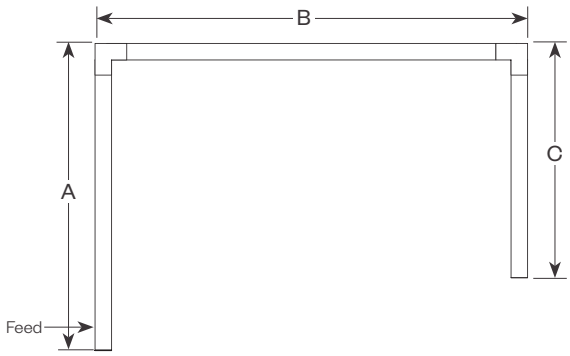
Optional Corner with Louver



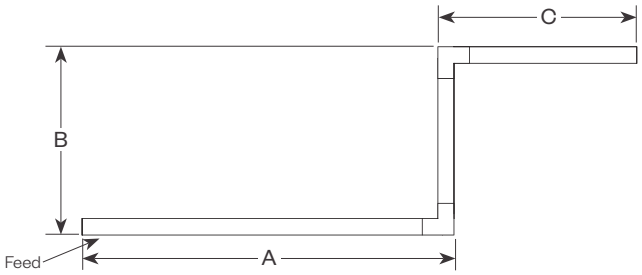
PLL - L Left, *(2)* straights + *(1)* 90° corner, leg right
PLR - L Right, *(2)* straights + *(1)* 90° corner, leg left
Provide overall lengths: A' & B'
Nomenclature: A-B-PLL A-B-PLR



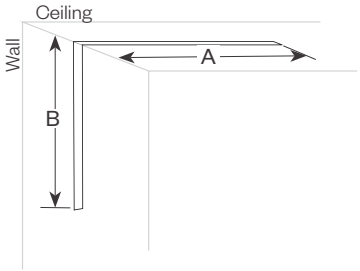
PR - Closed Rectangle, *(4)* straight lengths + *(4)* 90° corners
Provide overall lengths: A' & B'
Nomenclature: A-B-PR



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



WC - Wall to Ceiling - 90° joining bracket, 12" leg length standard
Provide overall lengths: A' & B'
Nomenclature: A-B-PWC

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Grüv® 1.5”

Recessed Linear LED

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PROJECT:	TYPE:

Performance Data

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

Wattage:	3W	4W	5W	6W	7W	8W	9W	10W
Factor:	0.31	0.42	0.53	0.63	0.72	0.81	0.90	1.0

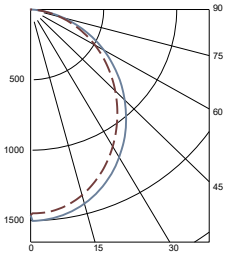
	Louver	
Finish:	SLV	BLK
Factor:	1.0	0.65

CCT Factors:					TW9
CRI	2700K	3000K	3500K	4000K	(@3500K)
83	0.92	0.97	1.0	1.02	-
90	0.81	0.84	0.86	0.89	0.86

GRUV 1.5” PERFORMANCE LENS 10W 3500K 4FT

Total Watts: 37 Total Lumens: 3691

Source: 96 White LED's



LTL# 14664757.01

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1759	47.7
0-60	2984	80.8
0-90	3691	100.00
90-180	0	0.00

Efficacy = 101.1 Lumens/Watt

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

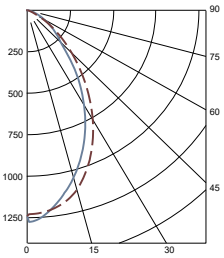
RC	80			
RW	70	50	30	10
RCR				
0	119	119	119	119
1	109	105	100	97
2	100	92	85	79
3	91	81	73	66
4	83	72	63	57
5	77	64	55	49
6	71	58	49	43
7	66	53	44	38
8	62	48	40	34
9	58	44	36	31
10	54	41	33	28

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

GRUV 1.5” STRAIGHT BLADE LOUVER (SLV) 10W 3500K 4FT

Total Watts: 37 Total Lumens: 1584

Source: 96 White LED's



LTL# 14664757.05

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1129	71.3
0-60	1502	94.8
0-90	1584	100.00
90-180	0	0.00

Efficacy = 43.5 lumens/Watt

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80			
RW	70	50	30	10
RCR				
0	119	119	119	119
1	112	109	106	103
2	105	99	94	89
3	98	90	84	79
4	91	82	75	70
5	86	75	68	63
6	80	70	62	57
7	75	64	57	52
8	71	60	53	48
9	67	56	49	44
10	63	52	45	41

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

Grüv® 1.5”

Recessed Linear LED

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PROJECT: **TYPE:**

Performance Data *(continued)*

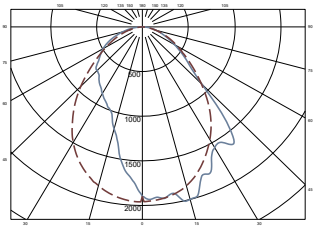
Multiplying Factors: *(Multiplying Factor is based on 3500K-83 120V IES file on website)*

Wattage:	3W	4W	5W	6W	7W	8W	9W	10W
Factor:	0.31	0.42	0.53	0.63	0.72	0.81	0.90	1.0

CCT Factors:					TW9
CRI	2700K	3000K	3500K	4000K	(@3500K)
83	0.92	0.97	1.0	1.02	-
90	0.81	0.84	0.86	0.89	0.86

LINEA 1.5” ASYMMETRIC LENS 10W 3500K 4FT

Total Watts: 37 Total Lumens: 4046
Source: 96 White LED's



LTL# 14664757.02

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	2048	50.6
0-60	3358	83.0
0-90	4046	100.00
90-180	0	0.00

Efficacy = 110.8 Lumens /Watt

COEFFICIENTS OF UTILIZATION

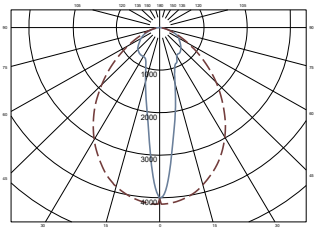
Effective Floor Cavity Reflectance 20%

RC	80			
RW	70	50	30	10
RCR				
0	119	119	119	119
1	110	105	101	97
2	100	92	86	81
3	92	82	74	68
4	85	73	65	58
5	78	66	57	51
6	72	60	51	45
7	67	54	46	40
8	63	50	41	36
9	59	46	38	32
10	55	42	35	30

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

LINEA 1.5” GRAZER LENS 10W 3500K 4FT

Total Watts: 37 Total Lumens: 4065
Source: 96 White LED's



LTL# 14664757.04

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	2219	54.6
0-60	3418	84.1
0-90	4065	100.00
90-180	0	0.00

Efficacy = 111.3 Lumens /Watt

COEFFICIENTS OF UTILIZATION

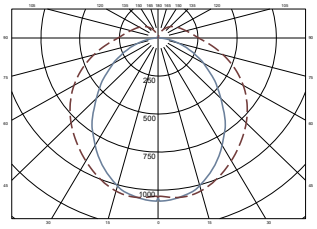
Effective Floor Cavity Reflectance 20%

RC	80			
RW	70	50	30	10
RCR				
0	119	119	119	119
1	110	106	102	98
2	101	94	88	82
3	93	84	76	70
4	86	75	67	61
5	80	68	60	54
6	75	62	54	48
7	70	57	49	44
8	65	53	45	40
9	62	49	42	36
10	58	46	39	34

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

LINEA 1.5” DROP LENS 10W 3500K 4FT

Total Watts: 37 Total Lumens: 4014
Source: 96 White LED's



LTL# 14664757.03

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1339	33.4
0-60	2397	59.7
0-90	3427	85.4
90-180	588	14.6

Efficacy = 109.9 Lumens /Watt

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80			
RW	70	50	30	10
RCR				
0	116	116	116	116
1	103	98	93	88
2	93	84	77	70
3	85	73	65	58
4	77	65	55	48
5	71	58	48	41
6	65	52	42	36
7	60	47	38	32
8	56	43	34	28
9	52	39	31	25
10	49	36	28	23

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

Grüv® 1.5”

Recessed Linear LED

amerlux

PROJECT:	TYPE:

Static White - 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 ---

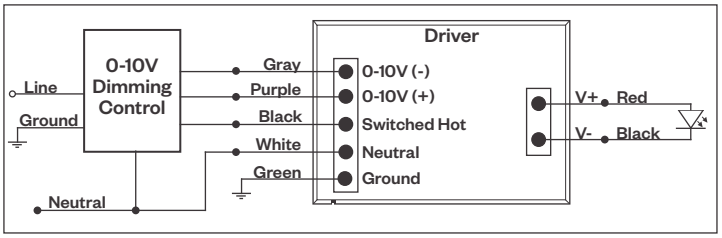
0-10V - DIMMING *(Standard)*

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			**Central System**
Lutron:	Wattstopper:	Leviton:	Lutron Grafixk Eye with GRX-TV1 Interface
Diva - DVSTV	ADF-120277	Renoir II	
Maestro - MS-Z101			
Nova-T - NTSTV-DV			

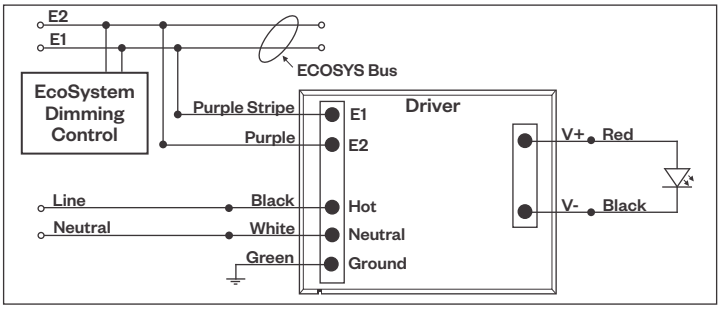
LUTRON LDE1 DIMMING

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	

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.

Static White - Dimming Compatibility *(continued)*

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

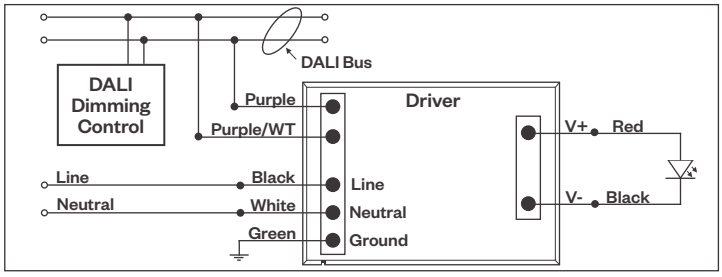
Digital control protocol allows individual fixture control

Notes:

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

Compatible Dimmers†:	
Wall Box	**Central System**
Leviton CD250 Controller	Dynalite
	Fifth Light

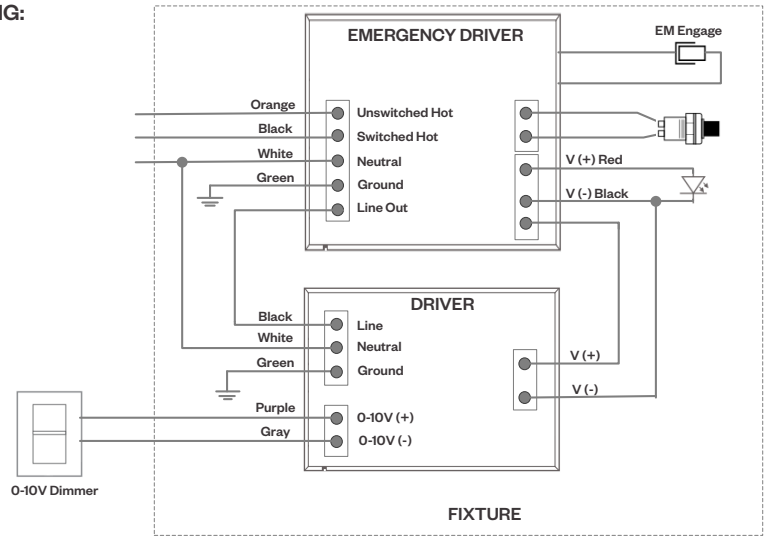
DALI Wiring Diagram



Emergency Fixture with Built-In Battery Pack

EMERGENCY FIXTURE WITH BUILT-IN BATTERY PACK *(EMB)* WIRING:

Note: EMB not available on lengths under 4'.



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.

Grüv® 1.5”

Recessed Linear LED

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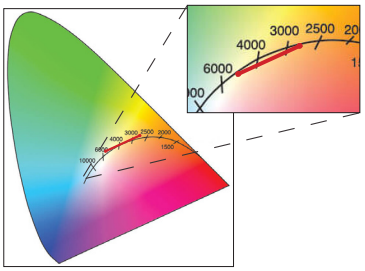
PROJECT:	TYPE:

Tunable White



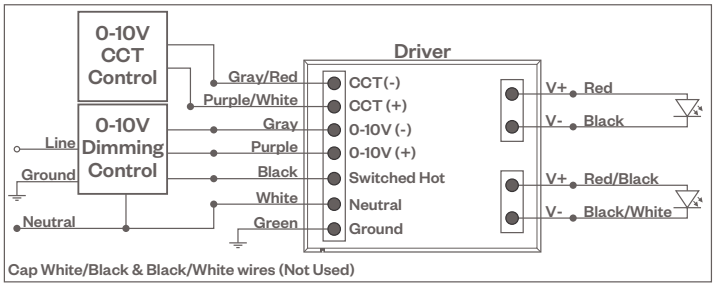
Tunable White range from 2700K-5700K, 90 CRI.
See wiring diagrams below.

Tunable White - Dimming Compatibility

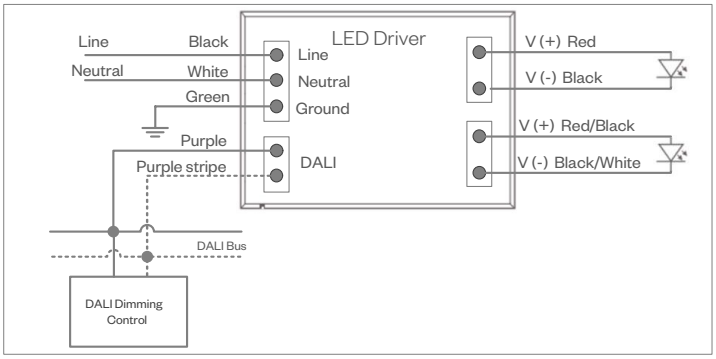
Amerlux® Gruv fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration *(Dimmer, Fixture Quantity, Voltage, etc)*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

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

0-10V Wiring Diagram



DALI DT8 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.