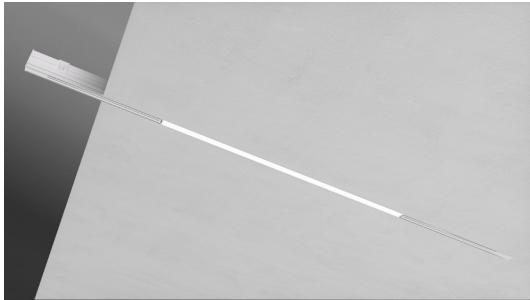


Carisma Combo Recessed

Recessed Linear LED
with Track



Features

The Carisma Combo Recessed combines our recessed linear 2" Carisma with track sections. Carisma is a family of architectural linear luminaires that offer excellent performance, quality, visuals and value. A sleek edge-to-edge lens design results in an elegant aesthetic with clean lines. Carisma's patent pending design includes an integrated optical system that minimizes optical losses, allowing for industry-leading efficacy.

Product Overview

Type:	Direct distribution with recessed mounting
Wattage:	5W/ft, 10W/ft (or specify wattage between 3W/ft & 10W/ft)
Color Temp:	2700K*, 3000K, 3500K, 4000K (* 90+ CRI only)
CRI:	80+ or 90+
Dimming (wired):	0-10V, 1% dimming (standard)

PROJECT:

TYPE:

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

Ceiling Types

9/16"	15/16"	Gyp Board	Millwork	4" Tech Zone	6" Tech Zone
Yes	Yes	Yes	No	No	No

Performance Chart

Lens	Wattage Per Foot	Delivered Lumens	LPW	Color Temp	CRI
P	5	2519	126.8	3500K	80+
P	10	4755	122.8	3500K	80+
A	5	2693	135.6	3500K	80+
A	10	5408	128.6	3500K	80+

*Data is based on 3500K-80 IES files available on website
Data is based on 4' fixture*

Runs

Individual Runs: 2' - 8' (specify in 1' increments)

Continuous Runs: >8' (specify to the nearest foot)



† DLC pending

Carisma Combo Recessed

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PROJECT:

TYPE:

Ordered Total Length	Actual Cutout Length on Ceiling
4'	47.92"
6'	71.67"
8'	95.42"
10'	119.17"
12'	142.92"
14'	166.67"
16'	190.42"
18'	214.17"
20'	237.92"
22'	261.67"
24'	285.42"
26'	309.17"
28'	332.92"
30'	356.67"

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Recessed Linear LED with Track



PROJECT:

TYPE:

Specifications

Construction

Extruded aluminum housing and reflector.
Dual wire way wiring chassis, 1 circuit GES track (Track Heads sold separately)

Optical

All lenses are snap-in, extruded acrylic, with a maximum length of 8'. Amerlux's proprietary acrylic lens provides excellent transmission while effectively concealing source image.

P - Performance Lens provides high efficiency with controlled lens surface brightness.

A - Asymmetric Lens

LED

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: 80+, 90+

R9: 16 @ CRI 83; **R9:** >50 @ CRI 92

Life: 50,000+ hr., > 70% of initial lumens (L70)

* Available in 90+ CRI only

Electrical

LED = Line 1, Track = Line 2

Wiring: Supply wires are easily accessible through access plate on top of fixture.

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 3'). 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.

Finish

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

Configurations/Lengths

Straights:

IND - Individual fixtures are made of single standard lengths of 2 ft to 8 ft (in 2ft 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 2ft 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. Wiring is made fast and positive with molded quick connectors.

Mounting

Intended for use in gypsum board, 9/16" and 15/16" grid ceilings.

Please note - fixtures to be installed before gypsum board ceiling.

CAR2-R-GB - gypsum board trimless mud-in, fixture plastered in gypsum board ceiling

CAR2-R-FLG - gypsum board exposed flange, fixture into gypsum board ceiling

CAR2-R-GRID - grid mount in 9/16" & 15/16" Flat Tee, 9/16" Screw Slot or 9/16" Interlude ceilings

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).

EMC - 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.

Certifications

Approved to UL standards for damp locations as tested by CSA
Intended for indoor use only

Warranty

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

Carisma Combo Recessed

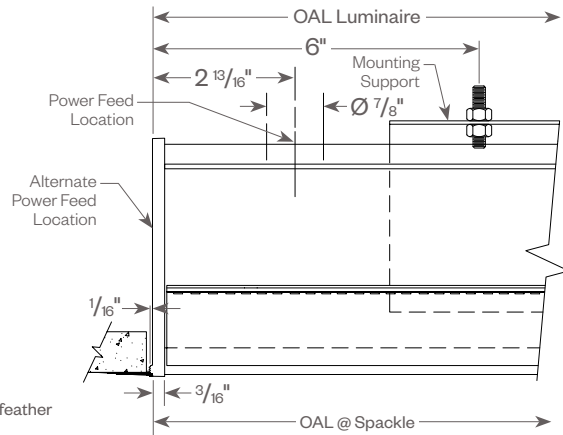
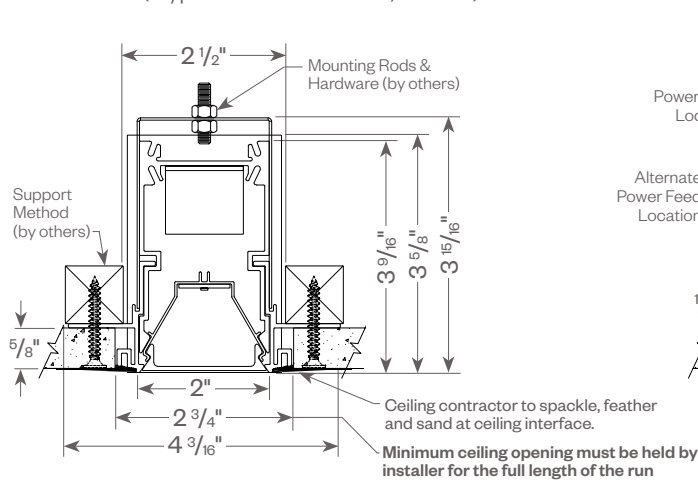
Recessed Linear LED with Track



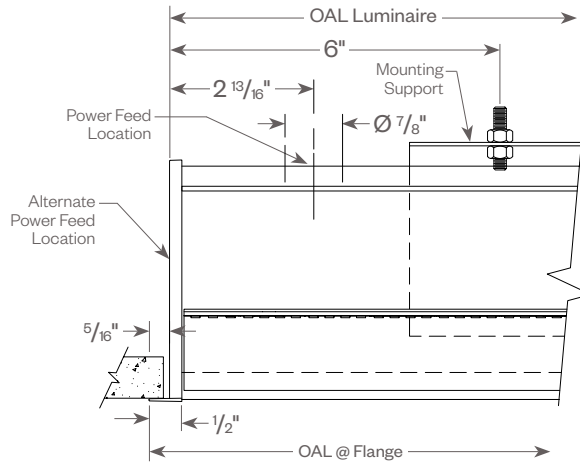
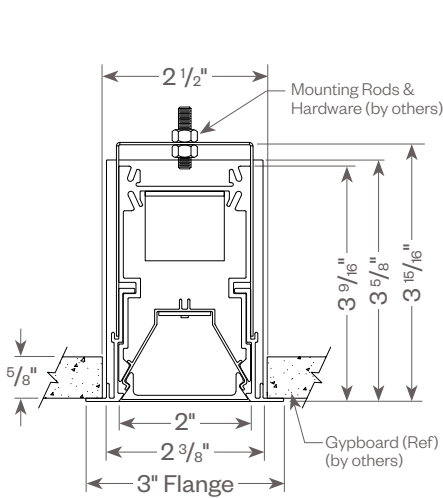
PROJECT:

TYPE:

CAR2-R-GB (Gypsum board trimless, mud-in)

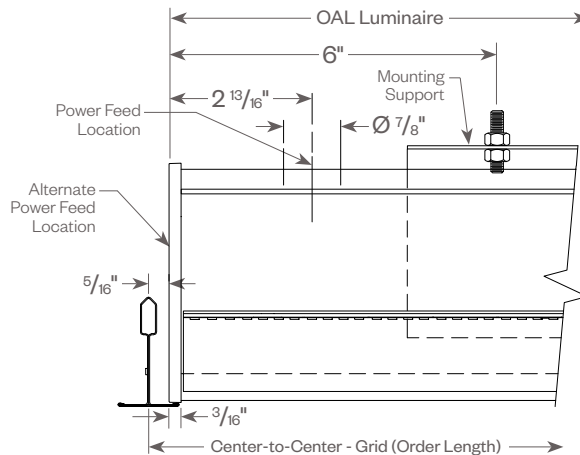
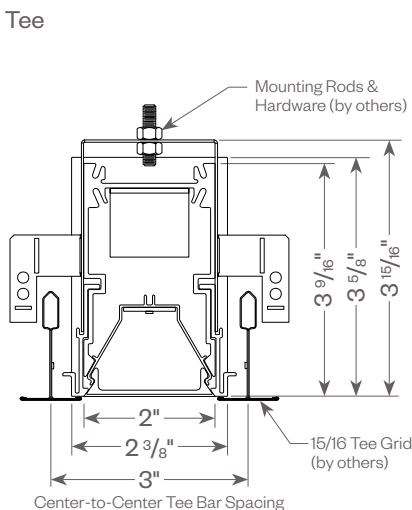


CAR2-R-FLG (Gypsum board exposed flange)



CAR2-R-GRID

15/16 Tee



Carisma Combo Recessed

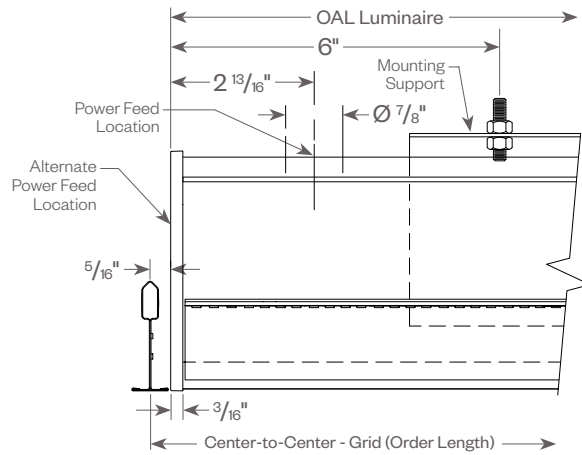
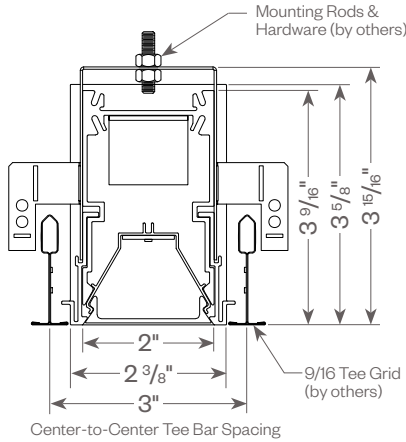
Recessed Linear LED with Track



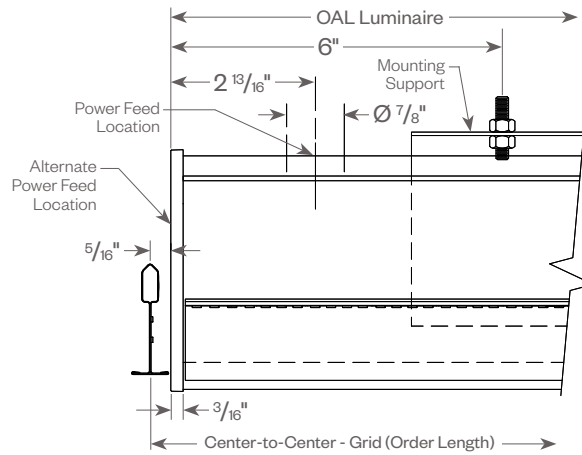
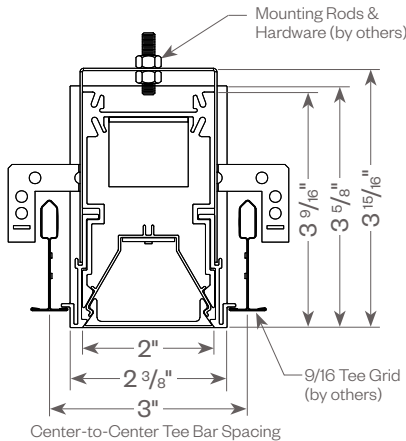
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TYPE:

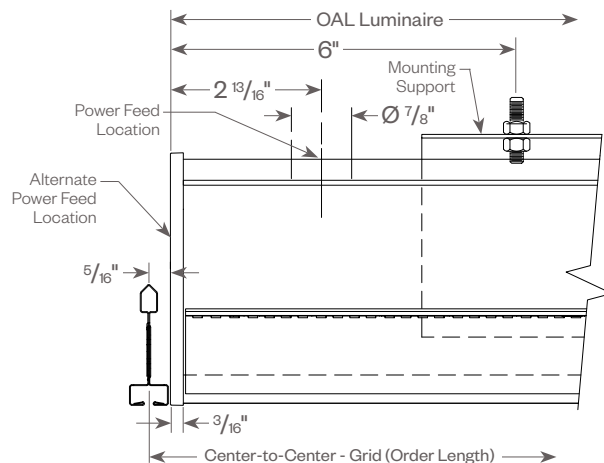
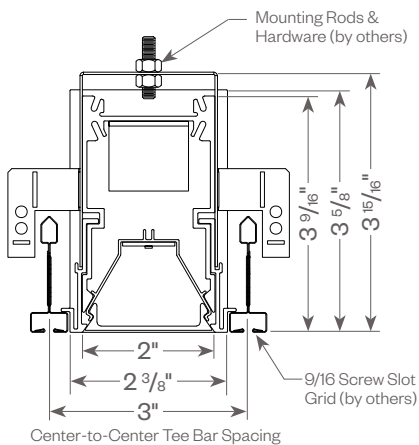
9/16 Tee



9/16 Tegular



9/16 Screw Slot



Carisma Combo Recessed

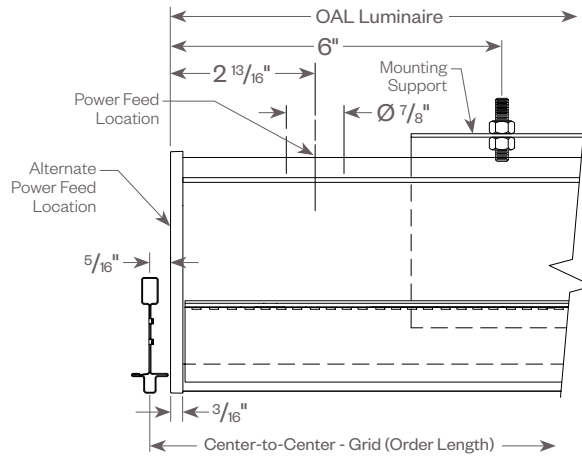
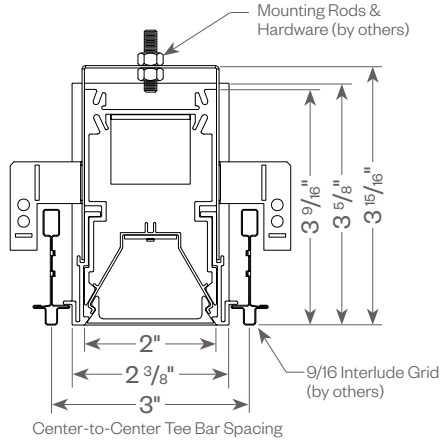
Recessed Linear LED with Track



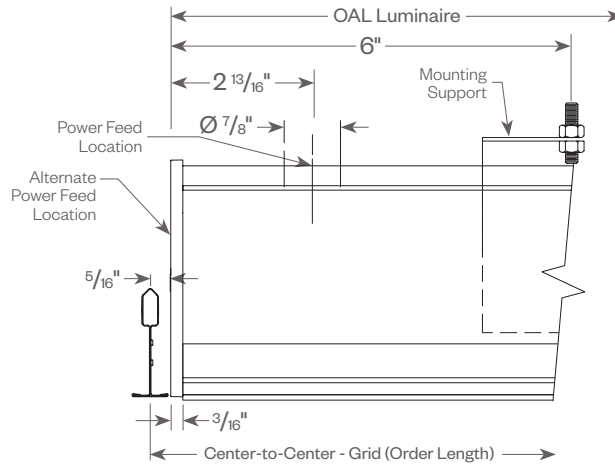
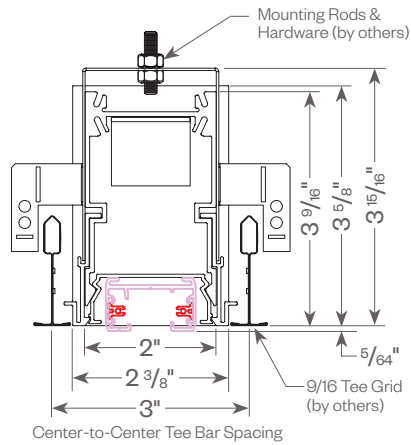
PROJECT:

TYPE:

9/16 Interlude

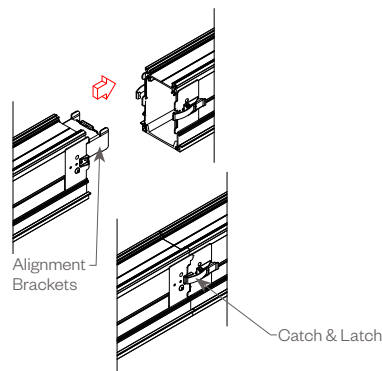


Track Profile



TOOLLESS JOINING

Line up the two housings using the alignment brackets. Secure them together by using the Catch & Latch System on each side of the extrusion.



Carisma Combo Recessed

Recessed Linear LED with Track



PROJECT:

TYPE:

FIXTURE DATA:

MULTIPLYING FACTORS: (Multiplying Factor is based on 3500K-80 120V IES file on website)

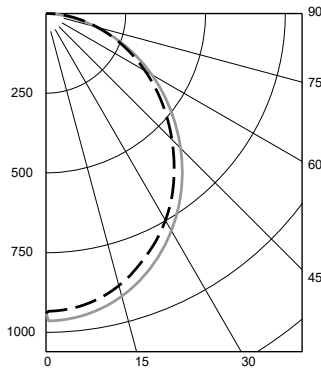
Wattage:	3W	4W	5W	6W	7W	8W	9W	10W
Factor:	0.59	0.78	1.0	1.20	1.40	1.60	1.79	1.98

CCT-CRI:	3000K-80	3500K-80	4000K-80	2700K-90	3000K-90	3500K-90	4000K-90
Factor:	0.97	1.0	1.02	0.90	0.92	0.92	0.94

CARISMA 2" RECESSED PERFORMANCE LENS 5W 3500K 4FT

Total Watts: 20
Total Lumens: 2,519
Source: 192 White LED's

LTL# 14656342.04



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1154	45.8
0-60	1990	79.0
0-90	2519	100.0
90-180	0	0.0

Efficacy (lumens/watt) = 126.8 lm/W

COEFFICIENTS OF UTILIZATION

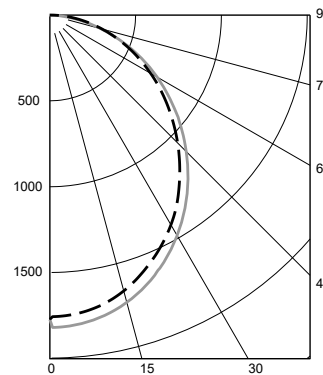
RC	RW			
	70	50	30	10
R0R				
0	119	119	119	119
1	109	104	100	96
2	99	91	84	78
3	90	80	71	65
4	83	71	62	55
5	76	63	54	48
6	70	57	48	42
7	65	52	43	37
8	61	47	39	33
9	57	43	35	30
10	53	40	32	27

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

CARISMA 2" RECESSED PERFORMANCE LENS 10W 3500K 4FT

Total Watts: 39
Total Lumens: 4,755
Source: 192 White LED's

LTL# 14656342.03



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	2177	45.8
0-60	3754	78.9
0-90	4755	100.0
90-180	0	0.0

Efficacy (lumens/watt) = 122.8 lm/W

COEFFICIENTS OF UTILIZATION

RC	RW			
	70	50	30	10
R0R				
0	119	119	119	119
1	109	104	100	96
2	99	91	84	78
3	90	80	71	65
4	83	71	62	55
5	76	63	54	48
6	70	57	48	42
7	65	52	43	37
8	61	47	39	33
9	57	43	35	30
10	53	40	32	27

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

Carisma Combo Recessed

Recessed Linear LED with Track



PROJECT:

TYPE:

FIXTURE DATA:

MULTIPLYING FACTORS: (Multiplying Factor is based on 3500K-80 120V IES file on website)

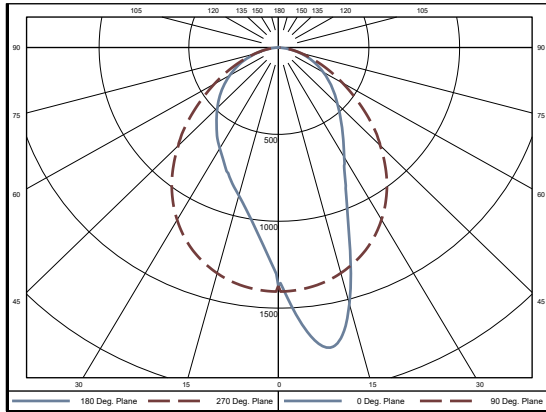
Wattage:	3W	4W	5W	6W	7W	8W	9W	10W
Factor:	0.59	0.78	1.0	1.20	1.40	1.60	1.79	1.98

CCT-CRI:	3000K-80	3500K-80	4000K-80	2700K-90	3000K-90	3500K-90	4000K-90
Factor:	0.97	1.0	1.02	0.90	0.92	0.92	0.94

CARISMA 2" RECESSED ASYMMETRIC LENS 5W 3500K 4FT

Total Watts: 20
Total Lumens: 2693
Source: 192 White LED's

LTL# 15335267.01



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1446	53.7
0-60	2259	83.9
0-90	2692	100.0
90-180	0	0.0

Efficacy (lumens/watt) = 135.6 lm/W

COEFFICIENTS OF UTILIZATION

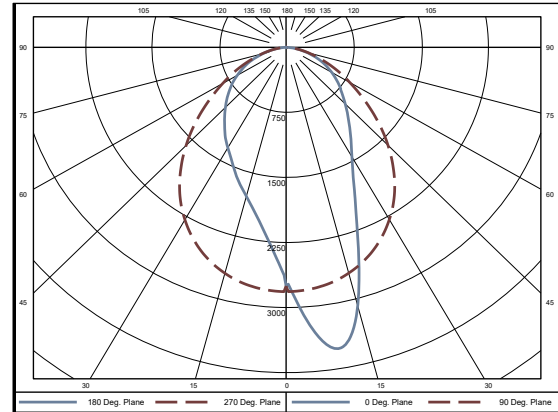
RC	RW			
	70	50	30	10
RCR				
0	119	119	119	119
1	110	105	102	98
2	101	93	87	82
3	93	83	75	69
4	86	74	66	60
5	79	67	58	53
6	74	61	53	47
7	69	56	48	42
8	64	51	43	38
9	60	48	40	34
10	57	44	37	32

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

CARISMA 2" RECESSED ASYMMETRIC LENS 10W 3500K 4FT

Total Watts: 42
Total Lumens: 5408
Source: 192 White LED's

LTL# 15335267.02



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	2906	53.7
0-60	4535	83.9
0-90	5408	100.0
90-180	0	0.0

Efficacy (lumens/watt) = 128.6 lm/W

COEFFICIENTS OF UTILIZATION

RC	RW			
	70	50	30	10
RCR				
0	119	119	119	119
1	110	105	102	98
2	101	93	87	82
3	93	83	75	69
4	86	74	66	60
5	79	67	58	53
6	74	61	53	47
7	69	56	48	42
8	64	51	43	38
9	60	48	40	34
10	57	44	37	32

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

Carisma Combo Recessed

Recessed Linear LED with Track



PROJECT:

TYPE:

DIMMING COMPATIBILITY:

Amerlux® Carisma 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:

- 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!

Compatible Dimmers†:

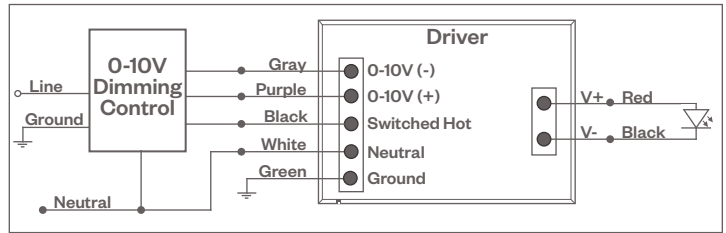
Wall Box

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

Center System

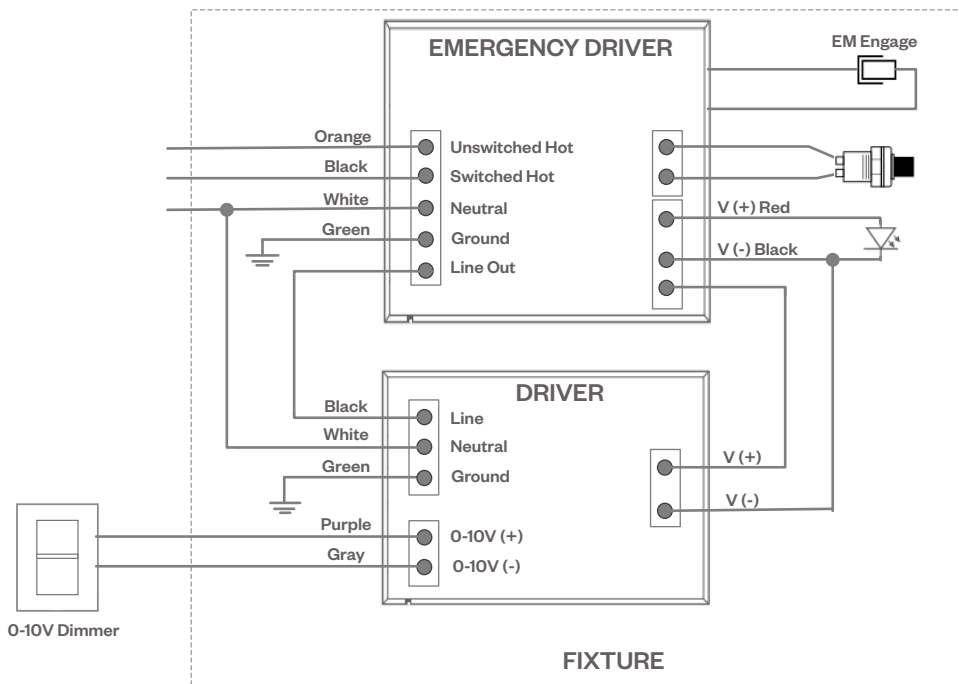
Lutron Grafik Eye with GRX-TV1 Interface

0-10V Wiring Diagram



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.