Carisma® Combo

Recessed

Recessed Linear LED with Track



amer A Delta Group Company

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

Туре:	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
Ρ	5	2519	126.8	3500K	80+
Р	10	4755	122.8	3500K	80+
А	5	2693	135.6	3500K	80+
А	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)



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PROJECT: Ordering Information 120 HW 120/277 1 3 4 5 6 8 9 2 7 10 Example: 28' run with 2' track at beginning and end of run CAR2-R-COMBO-GB-GES . 28 8TP/8P/8P/4PT 5 . 35 . HW . 120/277 . 120 . CON . 0-10V Model Wattage (per foot) 1 4 CAR2-R-COMBO-GB-GES - gypsum board trimless mud-in 5 - 5W/ft CAR2-R-COMBO-FLG-GES - gypsum board exposed flange 10 - 10W/ft CAR2-R-COMBO-GRID-GES - grid ceiling mount Color Temp 5 80+CRI: 90+ CRI: Total Run Length 2 **30** - 3000K-80+ 279 - 2700K-90+ (min. 4ft, increments of 2ft) **35** - 3500K-80+ 309 - 3000K-90+ (Please note that the lengths of the modules are not exact. i.e. an 8' 40 - 4000K-80+ 359 - 3500K-90+ module is not exactly 8' in length. Please refer to the table on page 3 409 - 4000K-90+ for exact length of the ceiling cutout for Flanged and Trimless fixtures going into Gypsum Board ceilings. For fixtures going into **Finish** 6 Grid ceilings, we will adjust the oveall length to fit into the grid). HW - high reflectance matte white Run Builder 3 Linear Voltage 120/277 Note: Section lengths must equal total run length Track Voltage 8 Combo Module with Linear Only: 120 Module Length Lens **4** - 4' P - performance lens **Configuration** 9 6 - 6' A - asymmetric lens IND - use IND if row consists of only one single Module (e.g. 4PT) 8 - 8' CON - use CON if row consists of more than one single Module (e.g. 6P/4TA/6TP) Combo Module with Linear & Track: Module Length Track Position & Lens Drivers/Controls 10 PT - performance lens with 2' track at end 4 - 4 Wired: **6** - 6' **TP** - performance lens with 2' track at beginning 0-10V* - 1% electronic dimming, multi-volt (120-277VAC) **8** - 8' AT - asymmetric lens with 2' track at end constant current driver (standard). TA - asymmetric lens with 2' track at beginning * For linear ambient sections only **TPT** - performance lens with 2' track at beginning and end (6' and 8' lengths only) TAT - asymmetric lens with 2' track at beginning and end (6' and 8' lengths only) Combo Module with Track Only: Module Length Track **4** - 47.5" T - track 6 - 71.25" 8 - 95.0" Note: Add -EMB for emergency battery pack or -EMC for emergency circuit. Applies to lensed Linear only. Examples: 6P-EMB is a 6' perfor mance lens only module with emergency battery pack. 8TP-EMB is an 8' module with track and performance lens with emergency battery pack for the performance lens section. Note: P and A lens cannot be directly adjacent.

NOTE: Each run must include a combination of track sections and lit linear sections.

Recessed Linear LED with Track

PROJECT:



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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"

Above lengths are for CAR2-R-COMBO-GB-GES & CAR2-R-COMBO-FLG-GES. CAR2-R-COMBO-GRID-GES is built to fit grid size.

	<u> </u>
4' NOM with 18/4-2	22/2 & 12/3 dual feed
t	
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4P = 4' with Performance Lens 4A = 4' with Asymmetric Lens 4TP = 4' with 2' Track at Beginning & 2' Performance Lens at End 4PT = 4' with 2' Performance Lens at Beginning & 2' Track at End 4TA = 4' with 2' Track at Beginning & 2' Asymmetric Lens at End 4AT = 4' with 2' Asymmetric Lens at Beginning & 2' Track at End

<u>апп</u>		
6' N	OM with 18/4-22/2 & 12/	'3 dual feed
-		
		B •

6P = 6' with Performance Lens

6A = 6' with Asymmetric Lens

6TP = 6' with 2' Track at Beginning & 4' Performance Lens at End

6PT = 6' with 4' Performance Lens at Beginning & 2' Track at End

6TPT = 6' with 2' Track at Beginning & 2' Track at End & 2' Performance Lens

6TA = 6' with 2' Track at Beginning & 4' Asymmetric Lens at End

6AT = 6' with 4' Asymmetric Lens at Beginning & 2' Track at End

6TAT = 6' with 2' Track at Beginning & 2' Track at End & 2' Asymmetric Lens



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PROJECT:

YPE:

Specifications

Construction

Extruded aluminum housing and reflector.

Dual wire way wiring chasis, 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.

<u>Please note</u> - fixtures to be installed before gypsum board ceiling. CAR2-R-GB - gypsum board trimless mud-in, fixture plastered in gypsum board ceiling

 $\ensuremath{\mathsf{CAR2}}\xspace{-}\ensuremath{\mathsf{R-FLG}}\xspace$ - 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.

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PROJECT:

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CAR2-R-GRID 15/16 Tee





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TYPE:



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9/16 Tegular











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TYPE



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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.



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PROJECT:

FIXTURE DATA:

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

Wattage:	ЗW	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



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		E	30	
RW	70	50	30	10
RCR				
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: Valu	ies expressed	as % of total l	lumen output	delivered to

l 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



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		8	30		
RW	70	50	30	10	
RCR					
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	
Noto: Valu	on overeeed	an % of total I		dolivorod to t	ho t

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

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FIXTURE DATA:

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

Wattage:	ЗW	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

180 Deg. Plane _____ 270 Deg. Plane -

%Fixt

53.7

83.9

100.0

0.0

50

119

105

93

83

74

67

61

56

51

48

44

80

30

119

102

87

75

66

58

53

48

43

40

37

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

ZONAL LUMEN SUMMARY

Lumens

1446

2259

2692

0

Efficacy (lumens/watt) = 135.6 lm/W

COEFFICIENTS OF UTILIZATION

70

119

110

101

93

86

79

74

69

64

60

57

Zone

0-40

0-60

0-90

RC

RW

RCR 0

1

2

З

4

5

6

7

8

9

10

90-180



0 Deg. Plane

10

119

98

82

69

60

53

47

42

38

34

32

90 Deg. P

CARISMA® 2" RECESSED ASYMMETRIC LENS 10W 3500K 4FT Total Watts: 42

Total Lumens: 5408 Source: 192 White LED's





ZONAL LUMEN SUMMARY

ZONAL LOMEN COMMANY						
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		8	30	
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
Noto: Valu	on overeend o	o % oftotal	lumon output	dolivered to th

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



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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 Grafixk Eye with GRX-TV1 Interface

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.



0-10V Wiring Diagram

