Linear Direct Pendant with Track



PROJECT: TYPE:

Features

The Carisma® Combo combines our linear 2" Carisma® pendants 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.



CAR2-D-COMBO

Product Overview

Type: Direct distribution with pendant mounting

Wattage: 5W/ft, 10W/ft (or specify wattage between 3W/ft and 10W/ft)
Color Temp: 2700K*, 3000K, 3500K, 4000K (*90+ CRI only)

CRI: 80+ typ. or 90+ typ.

Dimming: 0-10V, 1% dimming

Certifications





Fixture Summary

Performance Data

Wattage per Foot	Lens	Delivered Lumens	LPW
5	Р	2519	126.8
10	Р	4755	122.8
5	А	2693	135.6
10	А	5408	128.6

Data is based on 4' fixture, 3500K-80+ 120V IES files available on website.

Runs

Individual Runs: 2' - 8' (specify in 1' increments).
Continuous Runs: > 8' (specify to the nearest foot).

Linear Direct Pendant with Track



PROJECT:		TYPE:			
Ordering Information					
CAR2-D-COMBO-GES	1		12	20/277 . 120 .	
1 2	3	4 5	6 7	8 9 10	11
Example: 28' run with 2' track at beginni		ASW04D . 5 .	35 . HW . 12	20/277 . 120 . CO	N . 0-10
1 Model 2 Total CAR2-D-COMBO-GES	I Run Length (min. 4ft, increments of				
3 Run Builder					
/	(section lengths must equal t	total run length)			
Combo Module with Linear Only: Module Length Lens 4 47.5" P performance lens 6 71.25: A asymmetric lens 8 95.0" Note: Add -EMB for emergency battery pack module with emergency battery pack. 8TP-L Note: P and A lens cannot be directly adjace.	4 47.5" PT pe 6 71.25: TP pe 8 95.0" AT as TA as TPT and el TAT a and el k or -EMC for emergency circ EMB is an 8' module with trace	erformance lens with 2' transperformance lens with 2' transperformance lens with 2' transperformance lens with 2' transperformance lens with 2 transperformance lens with 2 and (6' & 8' lengths only) asymmetric lens with 2' transfer lens with 2' transperformance lens with 2' t	crack at beginning act at end ack at beginning act at the deginning at the deginning act at the deginning act and at the deginning act and act act at the deginning act and act act act act at the deginning act and act		k ack ns only
4 Mounting		5 Wattage (per foo	ot) 6 Color T	emp	
Pendant Mount (aircraft cable suspension,)	5 5W/ft	80+ CF	<u>90+ CRI</u>	
ASW04D through ceiling tile or gyp box		10 10W/ft		00K-80+ 279 2700K-9	
ASW10D through ceiling tile or gyp boa ASW20D through ceiling tile or gyp boa				00K-80+ 309 3000K- 00K-80+ 359 3500K-	
ASB04D through ceiling tile or gyp boa			40 400	409 4000K-	
ASB10D through ceiling tile or gyp boar					
ASB20D through ceiling tile or gyp boa	rd, black, 20' (18/6, 12/3)				
7 Finish 8	Linear Voltage 9	Track Voltage 10	Configuration		
HW high reflectance matte white	120/277	120		consists of only one sing	gle Module
BT black texture			(e.g. 4PT)	row consists of many 41-	ono ola ala
ST silver texture			Module (e.g. 6P/47	row consists of more than FA/6TP)	i one single
11 Drivers/Controls					
0-10V* 1% electronic dimming, multi-vo	olt 120-277VAC constant o	current driver (standard)	_		

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

* For linear ambient sections only.

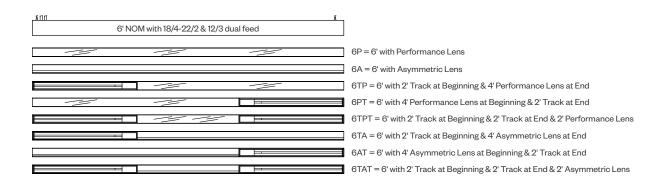




PROJECT: TYPE:

Modules

ĀIII	٦
4' NOM with 18/4-22/2 & 12/3 dual feed	
	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



ĀIII	8' NOM with 18	3/4-22/2 & 12/3 dual feed	Ā	
				8P = 8' with Performance Lens
				8A = 8' with Asymmetric Lens
				8TP = 8' with 2' Track at Beginning & 6' Performance Lens at End
			-	8PT = 8' with 6' Performance Lens at Beginning & 2' Track at End
-			-	8TPT = 8' with 2' Track at Beginning & 2' Track at End & 4' Perf Lens
				8TA = 8' with 2' Track at Beginning & 6' Asymmetric Lens at End
			-	8AT = 8' with 6' Asymmetric Lens at Beginning & 2' Track at End
-				8TAT = 8' with 2' Track at Beginning & 2' Track at End & 4' Asy Lens





PROJECT: TYPE:

Specifications

Construction

Extruded aluminum housing and reflector.

Die-cast end caps match fixture body finish.

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 provide excellent transmission while effectively concealing source image.

 $\mbox{\bf P}$ - 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: Individual and "Beginning of Run" (BOR) fixtures are prewired with power cord. All configurations have quick connect power harnesses for row connections.

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

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

 ${f HW}$ - High reflective matte White

BT - Black Texture

ST - Silver Texture

For special paint colors supply RAL and/or actual paint chip for factory consultation.

Configurations/Lengths

IND - Individual fixtures are made of single standard lengths of 2ft to 8ft (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

The Carisma® Direct is intended for pendant mounting.

Pendant Mount-ASWxxD - Direct pendant mounted in center of ceiling tile or gypsum board ceiling (standard) i.e. ASWxxD.

Cable is stranded stainless steel wire. All fittings are protected against rust and corrosion. Canopies are 5" x 1/4" die formed painted steel. Adjustment mechanism allows for infinite height adjustment. Amerlux recommends the required feed and non-feed suspensions based upon length and electrical options. Options include: color of canopy and power cord (black or white), length 4', 10' or 20', and mounting condition, in center of ceiling tile and in gypsum board ceiling (standard) i.e. ASWxxD.

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).

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.

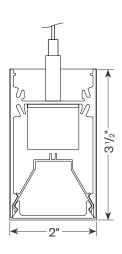


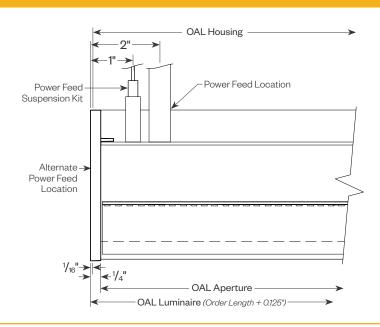


PROJECT: TYPE:

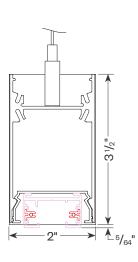
Product Details

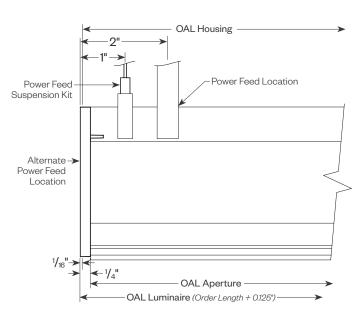
Pendant





Track Profile





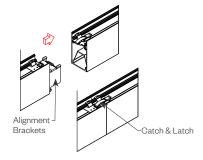
Linear Direct Pendant with Track



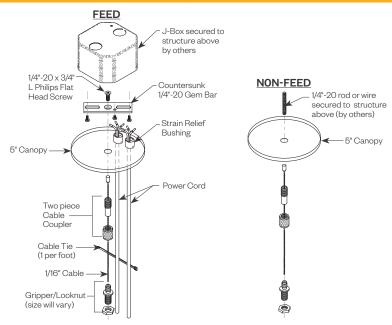
PROJECT: TYPE:

Tool-less Joining

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



Cable Kit Suspension - Ceiling or Gypsum Board



Cat#	Length	Cord/Canopy	Application
ASW04D	4'	white/white	ceiling tile/gypsum
ASW10D	10'	white/white	ceiling tile/gypsum
ASW20D	20'	white/white	ceiling tile/gypsum
ASB04D	4'	black/black	ceiling tile/gypsum
ASB10D	10'	black/black	ceiling tile/gypsum
ASB20D	20'	black/black	ceiling tile/gypsum

Linear Direct Pendant with Track



PROJECT: TYPE:

Performance Data

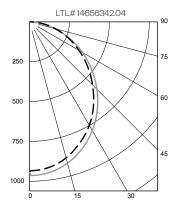
Multiplying Factors: (Multiplying Factor is based on 3500K-80120V IES file on website)

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:	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" DIRECT 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				

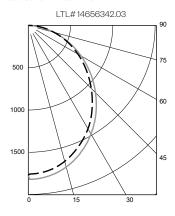
COEFFICIENTS OF UTILIZATION

RC		8	0		
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	
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Note: Values expressed as % of total lumen output delivered to the task surface.

CARISMA 2" DIRECT 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	0	
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: Values expressed as % of total lumen output

Linear Direct Pendant with Track



PROJECT: TYPE:

Performance Data (continued)

Multiplying Factors: (Multiplying Factor is based on 3500K-80120V IES file on website)

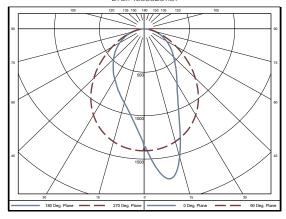
Wattage:	3W	4W	5W	6W	7W	8W	9W	10W
Factor:	0.59	0.78	1.0	1.20	1.40	1.60	1.79	1.98

CCT:	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" DIRECT ASYMMETRIC LENS 5W 3500K 4FT

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

LTL#1533526701



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

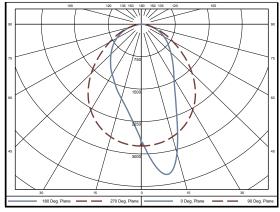
RC	80			
RW	70	50	30	10
RCR				
0	119	119	119	119
1	110	105	102	98
2	101	93	57	82
3	93	83	75	69
4	86	74	66	60
5	79	67	58	53
6	74	61	53	47
7	69	56	48	42
8	64	51	43	38
9	60	48	40	34
10	57	44	37	32
A / 1 /				4

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

CARISMA 2" DIRECT 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

RU		8	U	
RW	70	50	30	10
RCR				
0	119	119	119	119
1	110	105	102	98
2	101	93	57	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.





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:

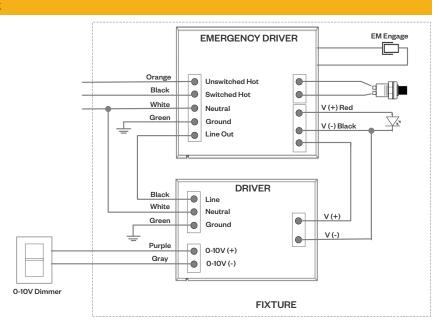
- 120V or 277V*
- · Dims down to 1% light output
- · Requires interface to turn off power to driver
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!

0-10V Wiring Diagram Driver 0-10V ● 0-10V (-) Dimming Line Purple 0-10V (+) Control Black Ground Switched Hot White Neutral Green Ground Neutral

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						

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.

