

Linea® 2.5"

Linear Direct/Indirect with Adjustable Accents



PROJECT:

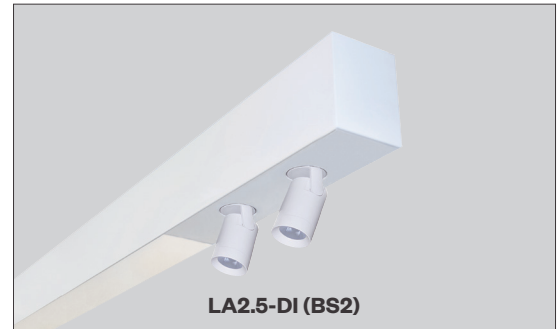
TYPE:

Features

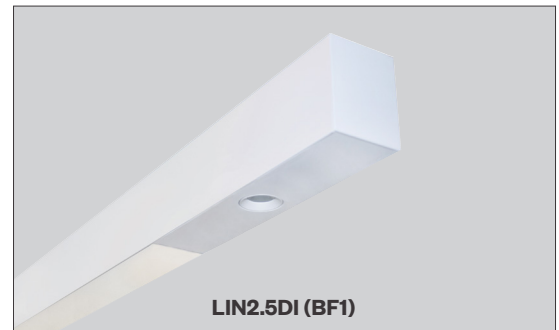
Linea Accent 2.5" drives your design scenario, seamlessly. Streamlined and adjustable, this family of architectural LED accents provide the freedom to create truly dynamic spaces. A synthesis of aesthetics, performance and energy efficiency, Linea Accents delivers on its promises. Linea Accents 2.5" complements our Gruv 2.5" products.

Product Overview

Type:	Cable Suspended Linear, Direct/Indirect with Accents Lens Direct/Batwing or Clear Lens Indirect
Wattage-Linear:	5W/ft, 10W/ft (other wattages available see pg 2)
Wattage-Accent:	7W (per accent head)
Color Temp:	2700K, 3000K, 3500K, 4000K
CRI:	83 typ. or 90+ typ.
Dimming:	0-10V, 1% dim, 120/277VAC (standard) DALI, 1% dim



LA2.5-DI (BS2)



LIN2.5DI (BF1)

Certifications



Fixture Summary

Performance Data - Linear Ambient

Nominal	Delivered Lumens				Color	
Wattage/Foot	Direct	Indirect	Total	LPW	Temp	CRI
5/5	2351	2354	4705	129.6	3500K	83
10/10	4374	4441	8815	123.5	3500K	83

Data is based on 3500K-83 120V IES files available on website.

Data is based on 4' fixture with Performance Lens direct & Upper Clear lens indirect.

Performance Data - Accent

Wattage per Foot	Delivered Lumens	LPW	CBCP	Color Temp	CRI
7	451	66.3	4861	3000K	83

Data is per head and based on Spot optic.

Electrical Data - Linear Ambient

Wattage per Foot	Voltage	4'		8'	
		System Watts	Amps	System Watts	Amps
10	120V	36.3	0.30	72.6	0.61
	277V	36.3	0.13	72.6	0.26
20	120V	71.4	0.60	142.8	1.19
	277V	71.4	0.26	142.8	0.52

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

Electrical Data - Accent

Voltage	7W/Accent	
	System Watts	Amps
120V	7	0.06
277V	7	0.03

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

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PROJECT:

TYPE:

Ordering Information

LA2.5DI					120/277							
1	2	3	4	5	6	7	8	9	10	11	12	13
1 Model LA2.5-DI linear with 12" accent plate on both ends	2 Optics (select 1 from each list) <u>Direct</u> PL performance lens (standard) DL designer lens <u>Indirect</u> BAT batwing uplight (standard) UC upper clear lens cover	3 Mounting <u>Pendant Mount</u> (aircraft cable suspension) ASW04 through ceiling tile or gyp board, white, 4'* ASW10 through ceiling tile or gyp board, white, 10' ASW20 through ceiling tile or gyp board, white, 20' ASB04 through ceiling tile or gyp board, black, 4'* ASB10 through ceiling tile or gyp board, black, 10' ASB20 through ceiling tile or gyp board, black, 20' ASW04T over ceiling tee, white, 4'* ASW10T over ceiling tee, white, 10' ASW20T over ceiling tee, white, 20' ASB04T over ceiling tee, black, 4'* ASB10T over ceiling tee, black, 10' ASB20T over ceiling tee, black, 20' *4' (xxx04) is standard length, other lengths are additional charge	4 Circuiting 1 single circuit for direct, indirect & accent 2 2 circuits for separate control of direct/indirect & accent, single feed 3 3 circuits for separate control of direct, indirect & accent, two feeds	5 Wattage-Linear (per foot, down/up) 5/5 10/10 5/10 10/5 Consult factory for other wattage options Note: Accent - 7W/Accent	6 Color Temp (for Linear & Accent) 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+	7 Finish HW high reflectance matte white BT black texture ST silver texture For other RAL color, consult factory	8 Voltage 120/277	9 Length (of entire fixture, see page 5) 4 4' Ind. (4' indirect, 2' direct, 12" plate w/accents on both ends) 5 5' Ind. (5' indirect, 3' direct, 12" plate w/accents on both ends) 6 6' Ind. (6' indirect, 4' direct, 12" plate w/accents on both ends) 7 7' Ind. (7' indirect, 5' direct, 12" plate w/accents on both ends) 8 8' Ind. (8' indirect, 6' direct, 12" plate w/accents on both ends)	10 Accent Heads (7W per accent) (12" plate on both ends of fixture, plates can have either 1 accent head or 2 accent heads. CCT, CRI & Finish to match linear unit) BF1 12" plate with 1 flush mount accent in center, 14W/fixture BF2 12" plate with 2 flush mount accents at 4 1/2" center to center, 28W/fixture BS1 12" plate with 1 surface mount accent in center, 14W/fixture BS2 12" plate with 2 surface mount accents at 4 1/2" center to center, 28W/fixture	11 Beam Spread-Accents SP spot, 13° NF narrow flood, 18° FL flood, 28°	12 Drivers 0-10V - 1% electronic dimming, multi-volt, 120-277VAC constant current driver (standard). DALI - DALI dimming, 120-277VAC, 1% dim	13 Options/Accessories-Accents AH accessory holder HEX hexcell louver (requires AH)

Note: For custom patterns submit an EDR on amerlux.com



Delta Intelligent Building Technologies

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PROJECT:

TYPE:

Specifications

Application

Open office plan, conference rooms, corridors or any indoor retail space where an exciting combination of direct and indirect ambient lighting is desired.

Construction

One piece extruded aluminum housing. Die-cast End Plates match fixture body finish. Die-formed, cold-rolled steel internal components are protected against rust and corrosion.

Optical

Linear Direct:

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.

Linear Indirect:

Extruded acrylic lens with a maximum length of 8'.

BAT - Batwing uplight lens (*standard*) spreads light directly above fixture. A minimum of 18" distance between ceiling plane and top of fixture is suggested.

UC - Upper Clear lens cover (*optional*).

Accent:

Tilt: 0-90°; **Rotation:** 360°+ (*for surface mount only*)

Beam Spreads: Spot, 13°; Narrow Flood, 18°; Flood, 28°

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 what 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 (linear): 16 @ CRI 83, >50 @ CRI 90+

R9 (accent): 7 @ CRI 83, 77 @ CRI 90+

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

Electrical

Wiring: Individual fixtures are prewired with power cord.

1 - single circuit for direct, indirect & accent

2 - 2 circuits for separate control of direct/indirect & accent, 1 feed

3 - 3 circuits for separate control of direct, indirect & accent, two feeds

(*not available for 4' & 5' fixtures*)

Linear Ambient:

Standard Wattage: 5W/ft, 10W/ft.

Optional Wattages: 3W/ft, 4W/ft, 6W/ft, 7W/ft, 8W/ft, 9W/ft.

For other wattages consult factory.

Accent:

Wattage: 7W per accent head (*14W/fixture that are utilizing plates with 1 accent head or 28W/fixture that are utilizing plates with 2 accent heads*)

Electronic constant current LED driver, 120V/277V AC input

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.

Drivers

0-10V - 1% electronic dimming, multi-volt (*120-277VAC*) constant current driver (*standard*). Cap leads for non-dim applications.

DALI - DALI Dimming 120-277VAC, 1% dim

Finish

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

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 4 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.

For custom patterns, submit an EDR on amerlux.com.

Mounting

Cable Suspension: 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 10' or 20', and mounting condition, in center of ceiling tile and in gypsum board ceiling (*standard*) i.e. ASW10. Or if canopy is installed on a grid Tee runner add, **T** i.e. ASW10T

Please note: 1 Circuit is standard, the direct & indirect are on the same circuit.

2 Circuits, direct & indirect switched separately with power feeds at both ends.

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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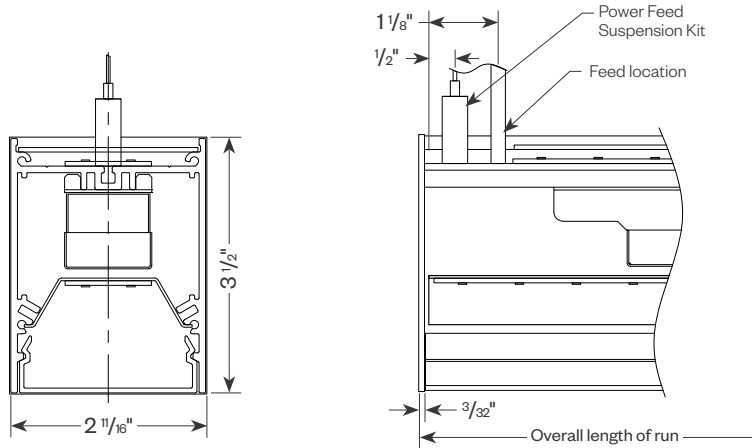


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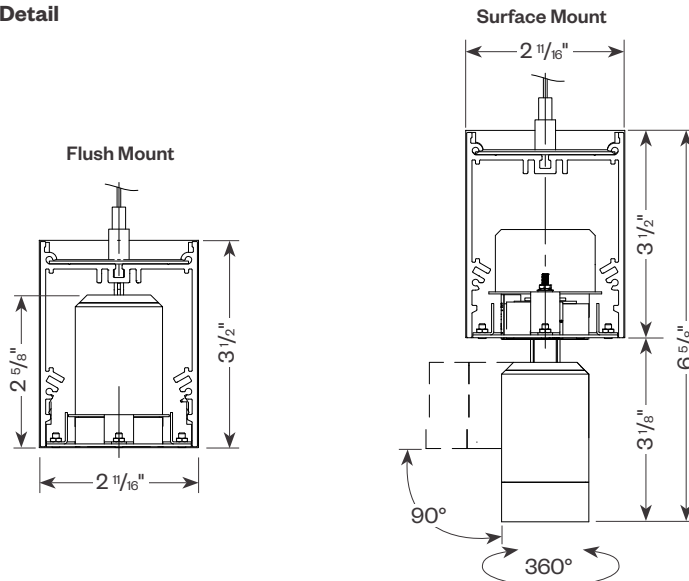
TYPE:

Product Details

Pendant



Accent Detail



Linear Direct/Indirect with Adjustable Accents



TYPE:

1 Flush Mount Accent On Each Plate



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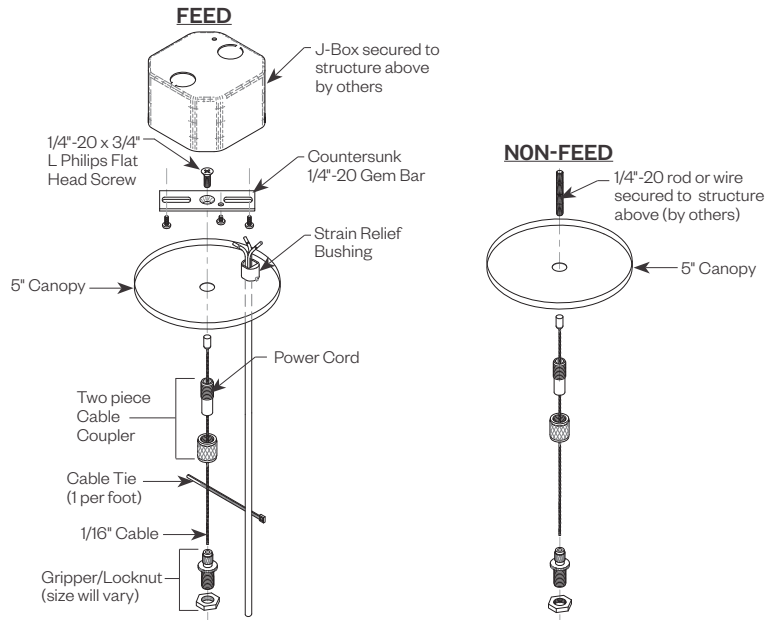
Linear Direct/Indirect with Adjustable Accents



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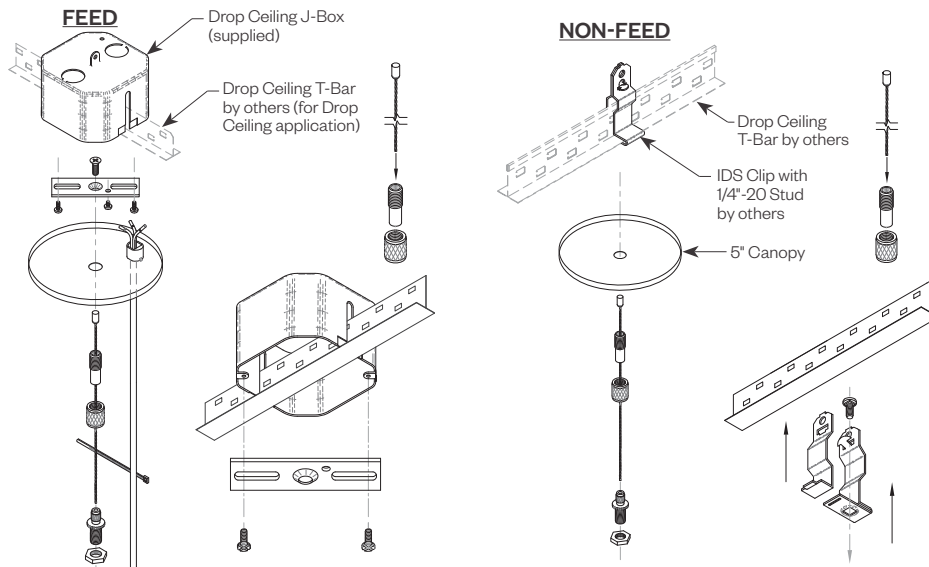
TYPE:

Cable Kit Suspension - Ceiling or Gypsum Board (ASW10, ASW20, ASB10, ASB20)



Cat#	Length	Cord/Canopy	Application
ASW10	10'	white/white	ceiling tile/gypsum
ASW20	20'	white/white	ceiling tile/gypsum
ASB10	10'	black/black	ceiling tile/gypsum
ASB20	20'	black/black	ceiling tile/gypsum
ASW10T	10'	white/white	ceiling tee
ASW20T	20'	white/white	ceiling tee
ASB10T	10'	black/black	ceiling tee
ASB20T	20'	black/black	ceiling tee

Tee Grid or Screw Slot (ASW10T, ASW20T, ASB10T, ASB20T)



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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

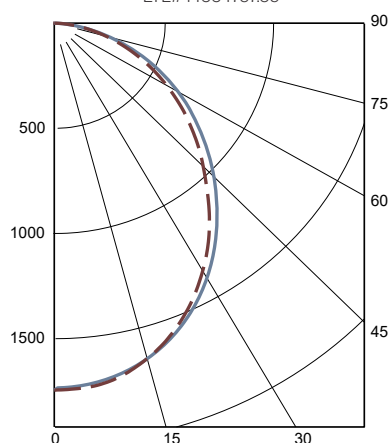
CCT Factors:				
CRI	2700K	3000K	3500K	4000K
83	0.92	0.97	1.0	1.02
90	0.81	0.84	0.86	0.89

LINEA 2.5" DIRECT PERFORMANCE LENS 10W 3500K 4FT

Total Watts: 38; Total Lumens: 4374

Source: 128 White LED's

LTL# 14664757.09



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	2101	48.0
0-60	3534	80.8
0-90	4374	100.00
90-180	0	0.00

Efficacy = 115 lumens/Watt

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80			
RW	70	50	30	10
ROR				
0	119	119	119	119
1	109	104	100	97
2	100	91	85	79
3	91	81	73	66
4	83	72	63	57
5	77	64	56	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

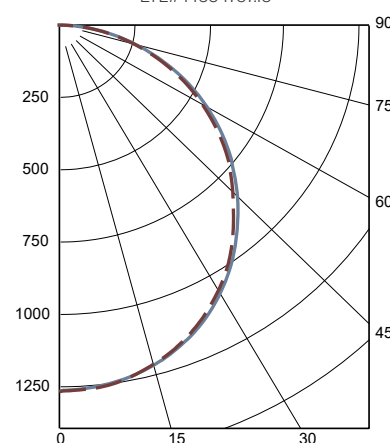
Note: Values expressed as percent of total lumen output delivered to the task surface.

LINEA 2.5" DIRECT DESIGNER LENS 10W 3500K 4FT

Total Watts: 38; Total Lumens: 3658

Source: 128 White LED's

LTL# 14664757.10



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1606	43.9
0-60	2832	77.4
0-90	3658	100.00
90-180	0	0.00

Efficacy = 96.3 lumens/Watt

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80			
RW	70	50	30	10
ROR				
0	119	119	119	119
1	108	103	99	95
2	98	90	83	77
3	90	79	70	64
4	82	70	61	54
5	75	62	53	46
6	69	56	47	40
7	64	51	42	36
8	60	46	38	32
9	56	42	34	29
10	53	39	31	26

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

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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:				
CRI	2700K	3000K	3500K	4000K
83	0.92	0.97	1.0	1.02
90	0.81	0.84	0.86	0.89

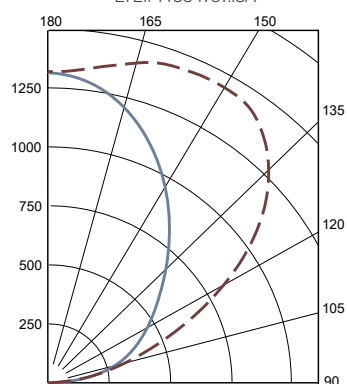
LINEA 2.5" INDIRECT BATWING LENS 10W 3500K 4FT

Total Watts: 33

Total Lumens: 4347

Source: 120 White LED's

LTL# 14664757.13A



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	0	0.0
0-60	0	0.0
0-90	0	0.0
90-180	4347	100.0

Efficacy (lumens/watt) = 130 lm/w

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80			
	70	50	30	10
RW				
ROR				
0	95	95	95	95
1	87	83	79	76
2	79	72	66	62
3	72	63	57	51
4	65	56	48	43
5	60	49	42	36
6	55	44	36	31
7	50	39	32	27
8	47	35	28	23
9	43	32	25	20
10	40	29	22	18

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

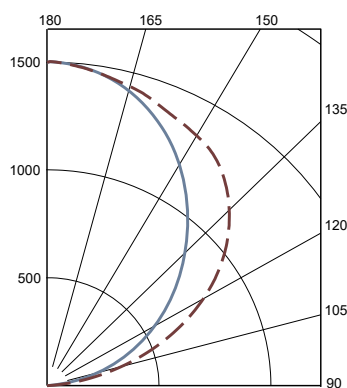
LINEA 2.5" INDIRECT UPPER CLEAR LENS 10W 3500K 4FT

Total Watts: 33

Total Lumens: 4441

Source: 120 White LED's

LTL# 14664757.14



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	0	0.0
0-60	0	0.0
0-90	0	0.0
90-180	4441	100.0

Efficacy (lumens/watt) = 132.8 lm/W

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80			
	70	50	30	10
RW				
ROR				
0	95	95	95	95
1	87	83	79	76
2	79	72	66	62
3	72	63	57	51
4	65	56	48	43
5	60	49	42	36
6	55	44	36	31
7	50	39	32	27
8	47	35	28	23
9	43	32	25	20
10	40	29	22	18

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



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PROJECT:

TYPE:

Performance Data (continued)

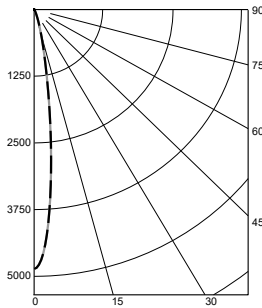
Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

CCT:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	3500K-90+	4000K-90+
Factor:	0.96	1.0	1.02	1.04	0.80	0.83	0.87	0.90

Accent Lights 7W

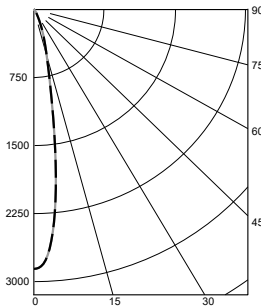
Note: Data per head

Spot (SP) Distribution, 13°
LTL #1274675
Lumens: 451



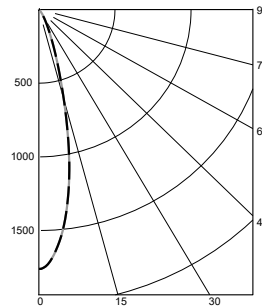
Candelas at Nadir	
Deg	Candela
0	4861
5	3303
15	444
25	63
35	22
45	14

Narrow Flood (NF) Distribution, 18°
LTL #1274676
Lumens: 429



Candelas at Nadir	
Deg	Candela
0	2860
5	2357
15	490
25	126
35	40
45	14

Flood (FL) Distribution, 28°
LTL #1274677
Lumens: 440



Candelas at Nadir	
Deg	Candela
0	1760
5	1578
15	652
25	160
35	42
45	13

APPLICATION DATA:

Notes and Definitions:

Beam spread is to 50% center beam candlepower (CBCP).

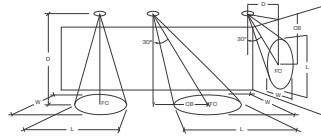
D=Distance to floor or wall.

FC=Footcandles on floor or wall at center beam aiming location.

L=Effective Visual Beam length in feet (50% of maximum footcandle level).

W=Effective Visual Beam width in feet (50% of maximum footcandle level).

CB=Distance across or down to center beam location.



**0° Aiming Angle
Horizontal
Footcandles**



**30° Aiming Angle
Horizontal
Footcandles**



**30° Aiming Angle
Vertical
Footcandles**



**60° Aiming Angle
Vertical
Footcandles**

	0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles					30° Aiming Angle Vertical Footcandles					60° Aiming Angle Vertical Footcandles				
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
Spot	5.0'	194	1.2	1.2	5.0'	125	1.5	1.3	3.0	3.0'	73	2.9	1.3	5.0	3.0'	253	1.3	1.1	2.0
	7.5'	86	1.7	1.7	7.5'	55	2.4	2.0	4.0	4.0'	42	3.5	1.7	6.0	4.0'	181	1.5	1.1	2.0
	10.0'	49	2.5	2.5	10.0'	31	3.3	2.9	6.0	5.0'	27	4.2	2.4	8.0	5.0'	121	1.7	1.4	3.0
	12.5'	31	3.0	3.0	12.5'	21	3.9	3.4	7.0	6.0'	19	5.2	2.8	9.0	6.0'	80	2.2	1.6	3.0
Narrow Flood	5.0'	115	1.4	1.4	5.0'	74	2.0	1.6	3.0	3.0'	45	3.2	1.5	4.0	3.0'	168	1.5	1.2	2.0
	7.5'	51	2.3	2.3	7.5'	34	2.9	2.7	4.0	4.0'	28	3.9	2.1	6.0	4.0'	119	1.7	1.3	2.0
	10.0'	29	3.1	3.1	10.0'	19	3.9	3.4	5.0	5.0'	18	4.9	2.8	7.0	5.0'	72	2.1	1.6	3.0
	12.5'	18	3.7	3.7	12.5'	12	4.8	1.2	7.0	6.0'	13	5.9	3.2	9.0	6.0'	53	2.4	1.9	3.0
Flood	5.0'	71	2.2	2.2	5.0'	46	2.9	2.6	3.0	3.0'	35	3.4	2.2	4.0	3.0'	107	2.1	1.5	2.0
	7.5'	31	3.2	3.2	7.5'	21	4.0	3.6	4.0	4.0'	20	4.5	2.9	5.0	4.0'	75	2.2	1.9	2.0
	10.0'	18	4.4	4.4	10.0'	12	5.4	4.9	5.0	5.0'	13	5.7	3.6	6.0	5.0'	45	2.9	2.7	3.0
	12.5'	11	5.4	5.4	12.5'	8	6.9	6.2	6.0	6.0'	9	7.0	4.4	8.0	6.0'	33	3.3	2.9	3.0



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PROJECT:

TYPE:

Dimming Compatibility

Amerlux® Linea® 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!**

Compatible Dimmers†:

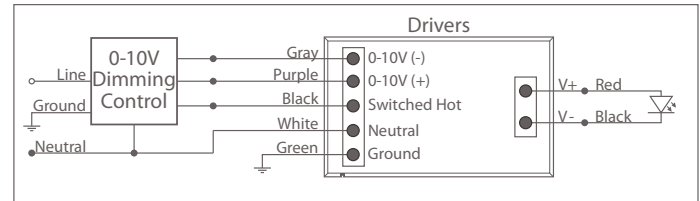
Wall Box

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

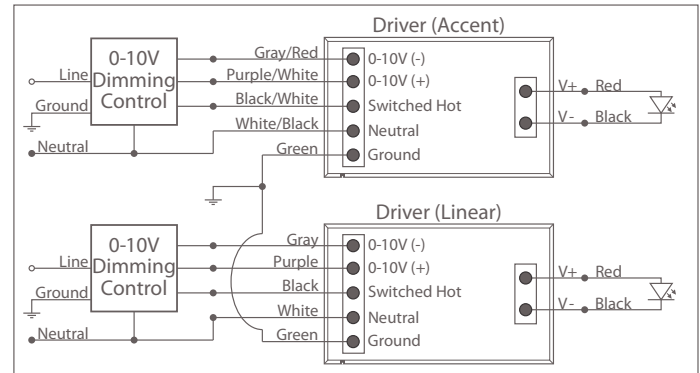
Central System

Lutron Grafik Eye with GRX-TV1 Interface

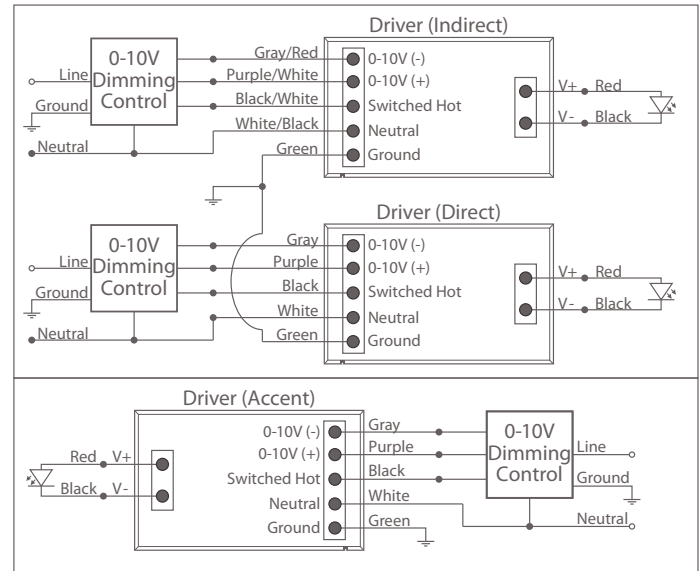
0-10V Wiring Diagram (1 Circuit)



0-10V Wiring Diagram (2 Circuit)



0-10V Wiring Diagram (3 Circuit)



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.

Linea® 2.5"

Linear Direct/Indirect with Adjustable Accents



PROJECT:

TYPE:

Dimming Compatibility *(continued)*

Amerlux® Linea® 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

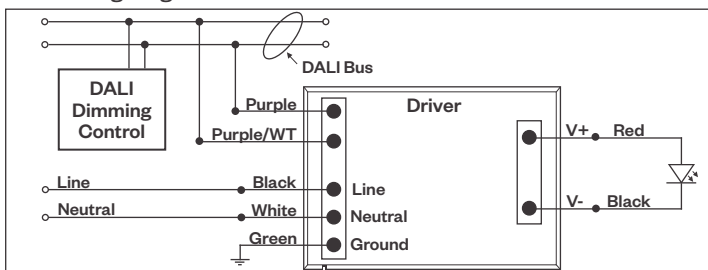
Notes:

- 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



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.



Delta Intelligent Building Technologies

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Amerlux reserves the right to change details that do not affect overall function and performance.
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