

Linea® 1.5"

Linear Direct/Indirect with Adjustable Accents



PROJECT:

TYPE:

Features

Linea Accent drives your design scenario, seamlessly. Streamlined and adjustable, these architectural LED accents provide the freedom to create truly dynamic spaces. A synthesis of aesthetics, performance and energy efficiency, the Linea Accent family delivers on its promises. Our new Linea Accent 1.5" pendant proves when it comes to lighting, less really is more.

Product Overview

Type: Cable Suspended Linear, Direct/Indirect with Accents
 Lens or Louver Direct/Batwing or Clear Lens Indirect

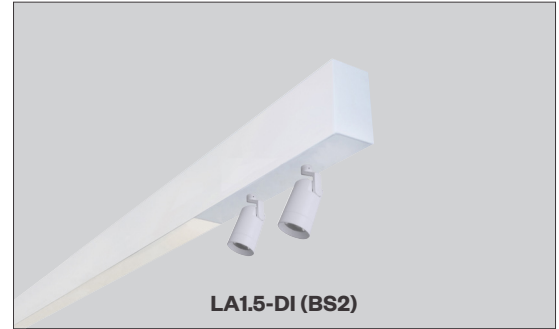
Wattage-Linear: 5W/ft, 10W/ft (other wattages available see pg 2)

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



Certifications



Fixture Summary

Performance Data - Linear Ambient

Wattage per Foot	Delivered Lumens			LPW	Color Temp	CRI
	Direct	Indirect	Total			
5/5	1920	2095	4015	114.4	3500K	83
10/10	3691	3948	7639	108.7	3500K	83

Data is based on 3500K-83 120V IES files available on website.
 Data is based on 4' fixture with Performance Lens Direct/Batwing Indirect.

Electrical Data - Linear Ambient

Wattage per Foot	Voltage	4'		8'	
		System Watts	Amps	System Watts	Amps
10	120V	35.1	0.29	70.2	0.59
	277V	35.1	0.13	70.2	0.25
20	120V	70.3	0.59	140.6	1.17
	277V	70.3	0.25	140.6	0.51

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

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 - 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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Ordering Information

LA1.5DI		120/277										
1	2	3	4	5	6	7	8	9	10	11	12	13
1 Model LA1.5-DI linear with 12" accent plate on both ends	2 Optics <i>(select 1 from each list)</i> <u>Direct</u> PL performance lens 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 <u>Indirect</u> BAT batwing uplight <i>(standard)</i> UC upper clear lens cover	3 Mounting <u>Pendant Mount</u> <i>(aircraft cable suspension)</i> ASW10 through ceiling tile or gyp board, white, 10' ASW20 through ceiling tile or gyp board, white, 20' ASB10 through ceiling tile or gyp board, black, 10' ASB20 through ceiling tile or gyp board, black, 20' ASW10T over ceiling tee, white, 10' ASW20T over ceiling tee, white, 20' ASB10T over ceiling tee, black, 10' ASB20T over ceiling tee, black, 20'	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 <i>(per foot, down/up)</i> 5/5 10/10 5/10 10/5 <i>Consult factory for other wattage options</i> Note: Accent - 7W/Accent	6 Color Temp <i>(for Linear & Accent)</i> 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 <i>For other RAL color, consult factory</i>	8 Voltage 120/277	9 Length <i>(of entire fixture, see page 5)</i> 4 4' Ind. <i>(2' linear in center, 12" plate w/accents on both ends)</i> 5 5' Ind. <i>(3' linear in center, 12" plate w/accents on both ends)</i> 6 6' Ind. <i>(4' linear in center, 12" plate w/accents on both ends)</i> 7 7' Ind. <i>(5' linear in center, 12" plate w/accents on both ends)</i> 8 8' Ind. <i>(6' linear in center, 12" plate w/accents on both ends)</i>	10 Accent Heads <i>(7W per accent)</i> <i>(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)</i> 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 <i>(standard)</i> . DALI - DALI dimming, 120-277VAC, 1% dim	13 Options/Accessories-Accents AH accessory holder HEX hexcell louver <i>(requires AH)</i>

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

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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'. 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.

SLDx - Straight blade Louver Direct has 0.5" high blades 0.75" on center with overlay. Available in (**W**) white aluminum (*light gray, appears white when lit*), (**B**) black or (**S**) silver.

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

Indirect:

Extruded acrylic lens with a maximum length of 8'.

BAT - Batwing upright lens spreads light directly above fixture. 18" minimum distance between ceiling plane and top of fixture suggested.

UC - Upper Clear lens cover.

Accent:

Tilt: 0-90°

Rotation: 360°+

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 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 typ. or 90+ typ.

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, single 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 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 - Individuals are stand alone fixtures made of single lengths of 4' to 8' (in 1' increments). They are supplied with matching painted End Caps and the required mounting hardware.

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

Mounting

Cable Suspension: Cable is stranded stainless steel wire supplied with cable gripper and 5"x .250" steel die formed canopy. All components are protected against rust and corrosion. Power feeds are 16 gauge 3 or 5 conductor SJT cord supplies in same color as canopy. Amerlux supplies the required feed and non-feed suspension kits based upon length, electrical options and customer requirements. Suspension kit options include: color, length and mounting condition.

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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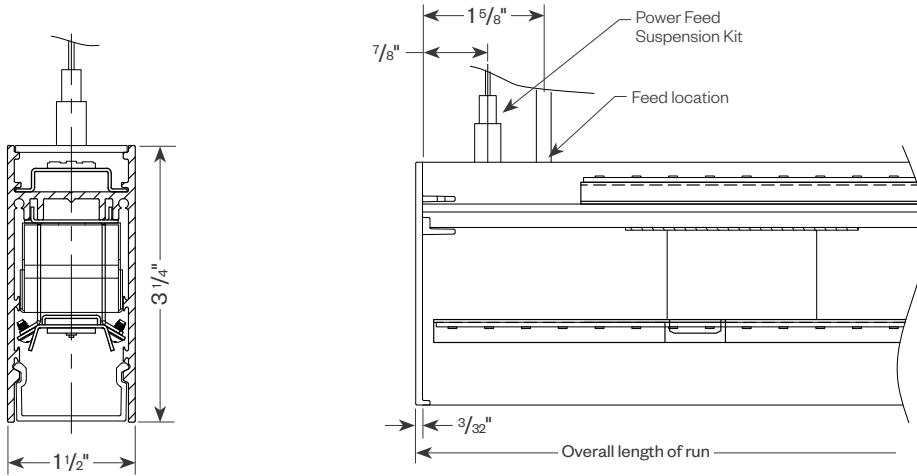


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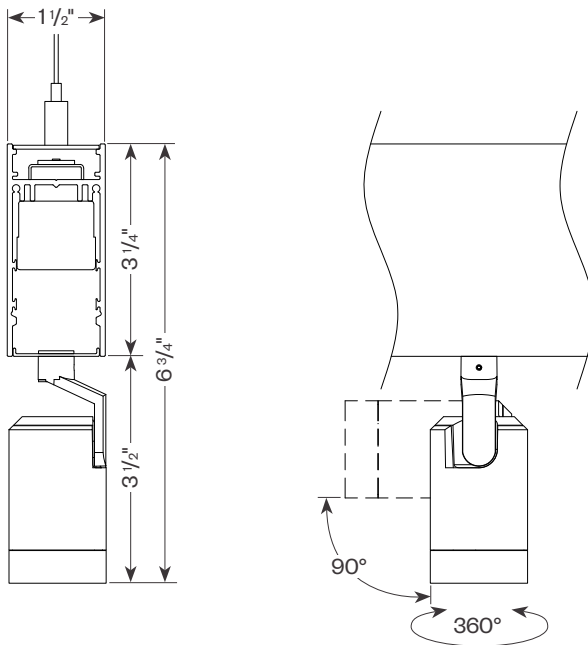
TYPE:

Product Details

Pendant



Accent Detail



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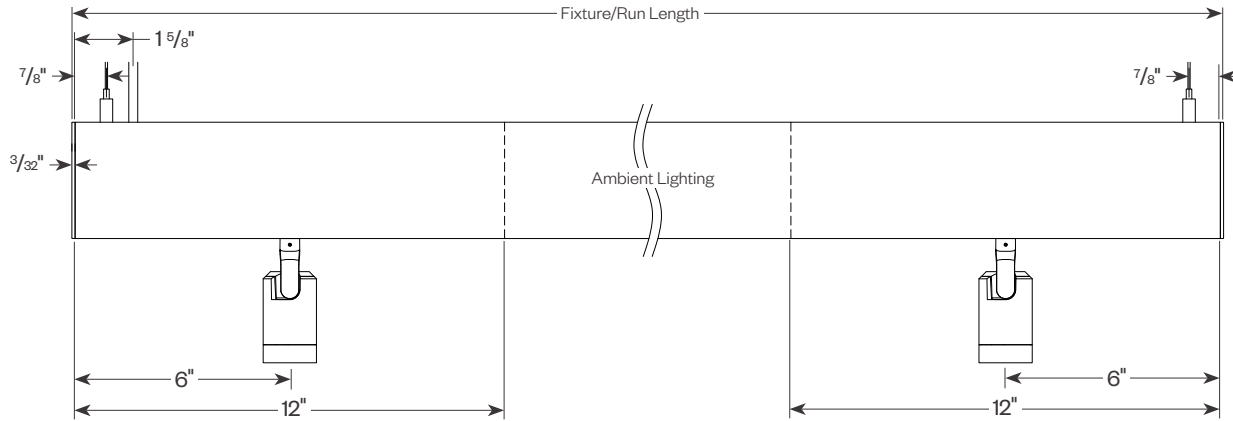


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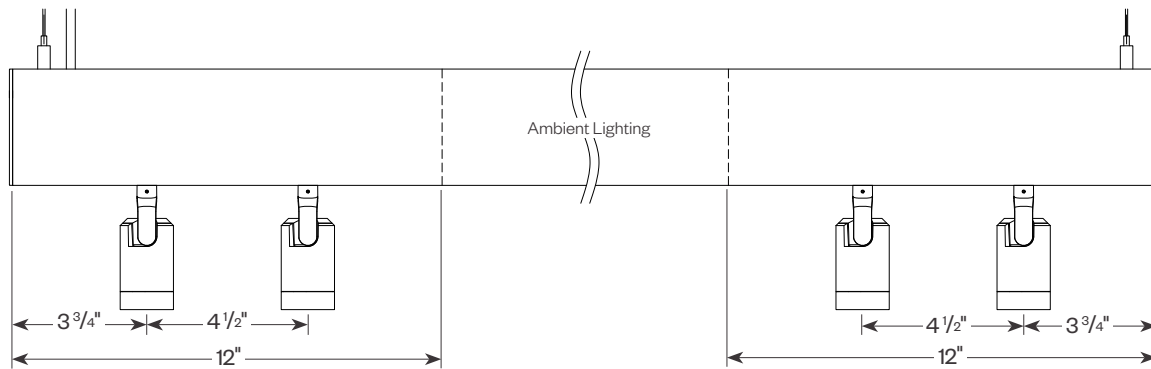
TYPE:

Product Details (continued)

1 Accent On Each Plate



2 Accents On Each Plate

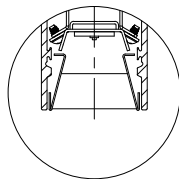


Optional Lens/Louver



For Asymmetric distribution this should be opposite the wall

Optional Asymmetric Lens



Optional Louver

Linea[®] 1.5"

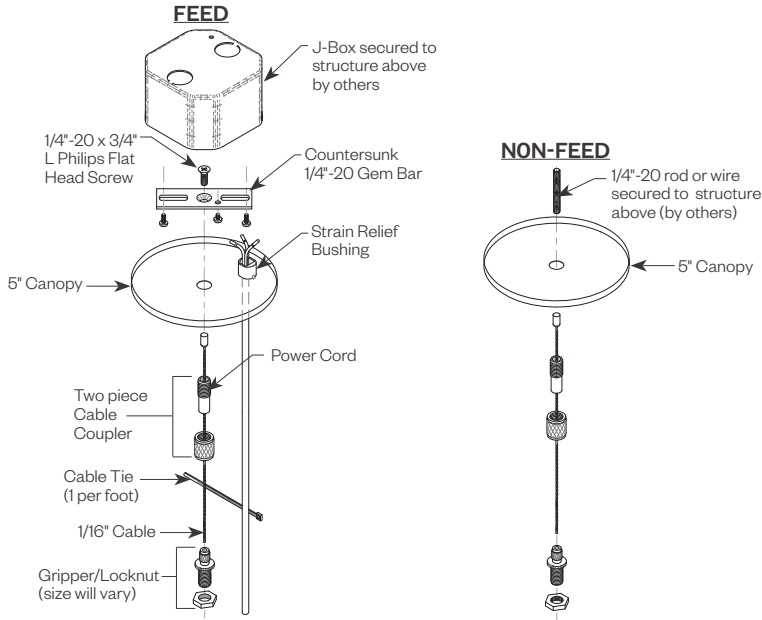
Linear Direct/Indirect with Adjustable Accents



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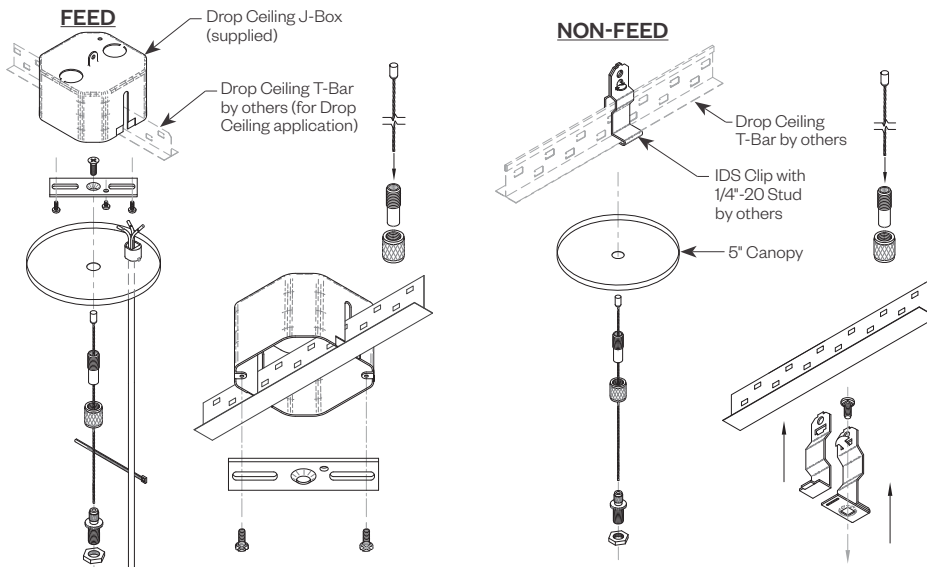
TYPE:

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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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

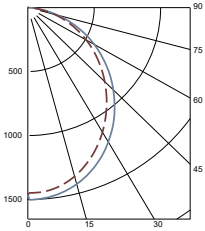
CCT Factors:				
CRI	2700K	3000K	3500K	4000K
83	0.92	0.97	1.0	1.02
90	0.81	0.84	0.86	0.89

LINEA 1.5" DIRECT 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
ROR				
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

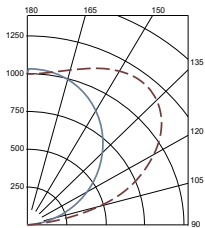
Note: Values are expressed as percent of total lumen output delivered to the task surface.

LINEA 1.5" INDIRECT BATWING LENS 10W 3500K 4FT

Total Watts: 34 Total Lumens: 3948

Source: 88 White LED's

LTL# 14664757.06



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	0	0.0
0-60	0	0.0
0-90	0	0.0
90-180	3948	100.0

Efficacy = 116.9 Lumens/Watt

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80			
RW	70	50	30	10
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 are expressed as percent of total lumen output delivered to the task surface.

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PROJECT:	TYPE:
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Performance Data *(continued)*

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

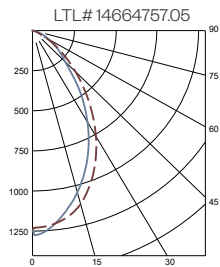
Wattage:	3W	4W	5W	6W	7W	8W	9W	10W
Factor:	0.31	0.42	0.53	0.63	0.72	0.81	0.90	1.0

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

Louver		
Finish:	SLV	BLK
Factor:	1.0	0.65

LINEA 1.5" DIRECT STRAIGHT BLADE LOUVER (SLV) 10W 3500K 4FT

Total Watts: 37 Total Lumens: 1584
Source: 96 White LED's



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

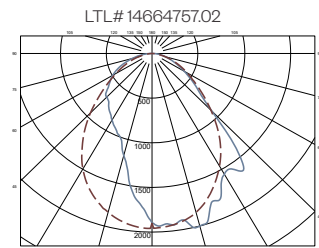
Effective Floor Cavity Reflectance 20%

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.

LINEA 1.5" DIRECT ASYMMETRIC LENS 10W 3500K 4FT

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



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.

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TYPE:

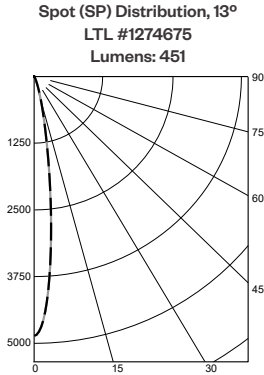
Performance Data (continued)

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

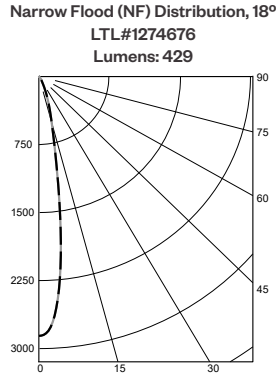
Accent Lights 7W

Note: Data per head



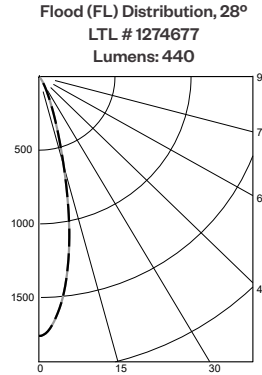
Candelas at Nadir

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



Candelas at Nadir

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



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).

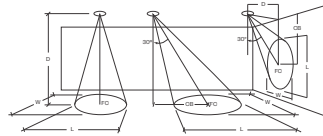
D=Distance to floor or wall.

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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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)

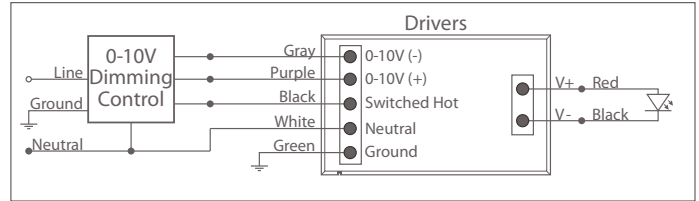
Integrates into a variety of building management and daylighting controls

Notes:

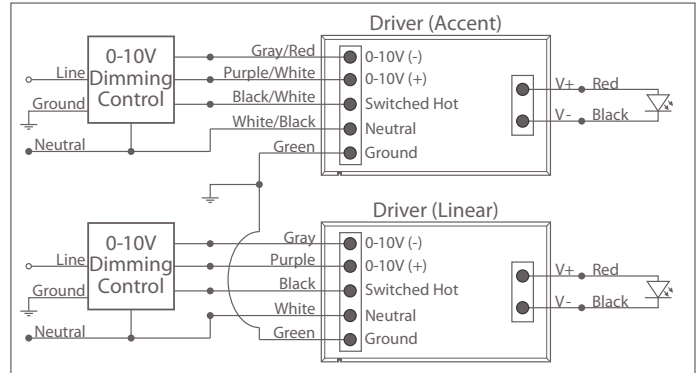
- 120V or 277V*
- Dims down to 1% light output
- Requires interface to turn off power to driver
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

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

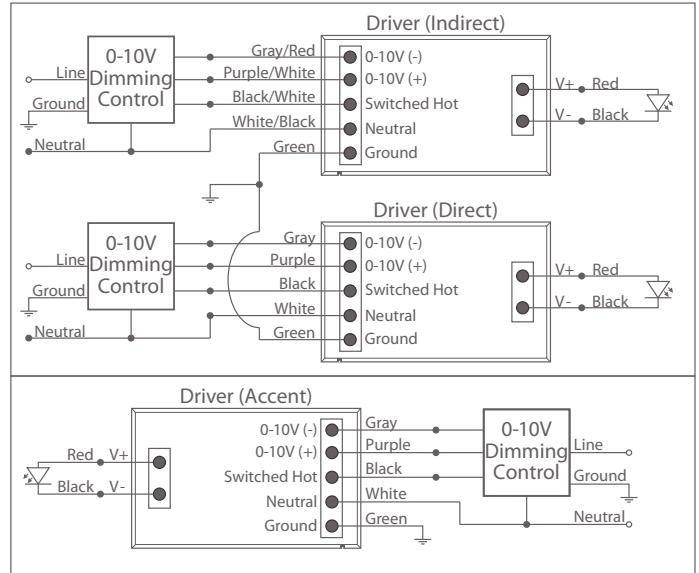
0-10V Wiring Diagram (1 Circuit)



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® 1.5”

Linear Direct/Indirect with Adjustable Accents



PROJECT:	TYPE:
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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

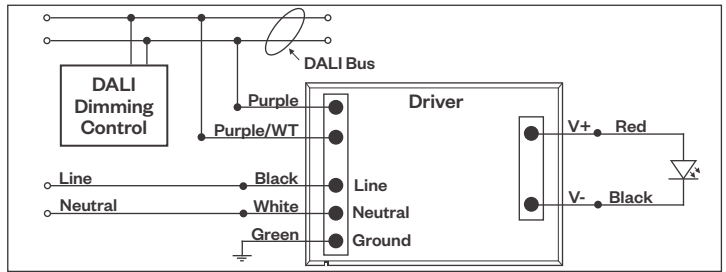
Digital control protocol allows individual fixture control

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.