

Linea® 1.5"

Linear Direct with
Adjustable Accents



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 or Surface Direct
Wattage (Linear):	5W/ft, 10W/ft (other wattages available see p2)
Lumen Output (Linear):	3,263 max; 78.4 Lm/W (10W, 4ft fixture)
Wattage (Accent):	7W (per accent head)
Lumen Output (Accent):	451 max; 63.3 Lm/W
Color Temp:	2700K, 3000K, 3500K, 4000K
CRI:	83 typ. or 90+ typ 90 typ. (2700K, 3000K)
Dimming:	0-10V, 1% dim (standard) DALI dimming, 1% dim



PROJECT:

TYPE:



Fixture Summary (see following pages for more information)

Performance Chart - Linear Ambient

Wattage Per Foot	Delivered Lumens	LPW	Color Temp
5	1,840	87.6	3500K-83
10	3,263	78.4	3500K-83

Data is based on 4' fixture with Performance Lens 3500K-83. IES files available on website

Performance Chart-Accent

Watts	Delivered Lumens	LPW	CBCP	Color Temp
7	451	63.3	4861	3000K-83

Data is per head and is based on Spot optic

Electrical Data-Linear

Wattage Per Foot		4'		8'	
		System Watts	Amps	System Watts	Amps
5	120V	22.3	0.18	41.9	0.35
	277V	22.9	0.09	41.6	0.16
10	120V	42.1	0.35	84.2	0.70
	277V	41.5	0.15	83.0	0.30

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

Electrical Data-Accent

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



Linea® 1.5" Direct with Accents

Linear Direct with Adjustable Accents, LED



PROJECT:

TYPE:

Ordering Information



1 Model
LA1.5-D - linear with 12" accent plate on both ends

2 Optics
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

3 Mounting
ASW10 - through ceiling tile or gyp board, white, 10'
ASB10 - through ceiling tile or gyp board, black, 10'
ASW10T - over ceiling tee, white, 10'
ASB10T - over ceiling tee, black, 10'
SM - surface mount

4 Circuiting
1 - single circuit for direct & accent
2 - 2 circuits for separate control of direct & accent, single feed

5 Wattage-Linear (per foot)
Standard:
5 - 5W/ft
10 - 10W/ft
Optional:
3 - 3W/ft (minimum 6' length)
4 - 4W/ft
6 - 6W/ft
7 - 7W/ft
8 - 8W/ft
9 - 9W/ft

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. (2' linear in center, 12" plate w/accents on both ends)
5 - 5' Ind. (3' linear in center, 12" plate with accents on both ends)
6 - 6' Ind. (4' linear in center, 12" plate with accents on both ends)
7 - 7' Ind. (5' linear in center, 12" plate with accents on both ends)
8 - 8' Ind. (6' linear in center, 12" plate with accents on both ends)

10 Accent Heads
(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)
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 Spreads-Accents
SP - spot, 13°
NF - narrow flood, 18°
FL - flood, 28°

12 Drivers
O-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 EDR on amerlux.com

Linea® 1.5" Direct with Accents

Linear Direct with Adjustable Accents, LED



PROJECT:

TYPE:

Specifications

Application

Open office plan, conference rooms, corridors or any indoor space where the higher light levels of a direct ambient lighting system are required.

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:

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.

SLD - Straight blade Louver Direct has ½" high blades ½" on center with overlay. Available in white aluminum (light gray, appears white when lit), black or silver

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

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 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 down/up & accent

2 - 2 circuits down/up & accent, single feed

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

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 - 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.

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

Surface Mount: Direct Surface Mounted - Housing needs to be attached to solid structure above. Mounting holes are pre-drilled at factory. Some fixture disassembly and reassembly required. Mounting hardware by others.

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.

Linea[®] 1.5" Direct with Accents

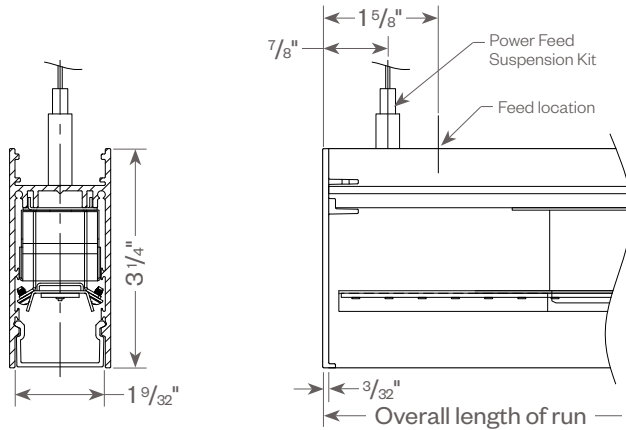
Linear Direct with Adjustable Accents, LED



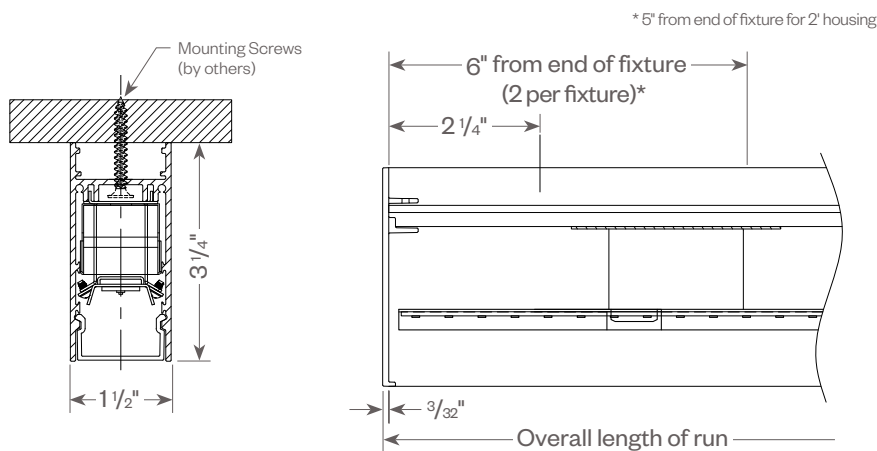
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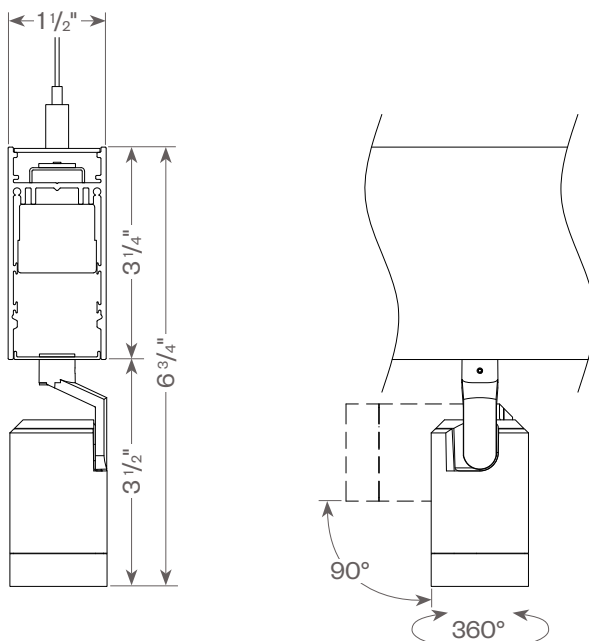
LINEA 1.5" DIRECT



LINEA 1.5" DIRECT SURFACE MOUNT



ACCENT DETAIL



Linea[®] 1.5" Direct with Accents

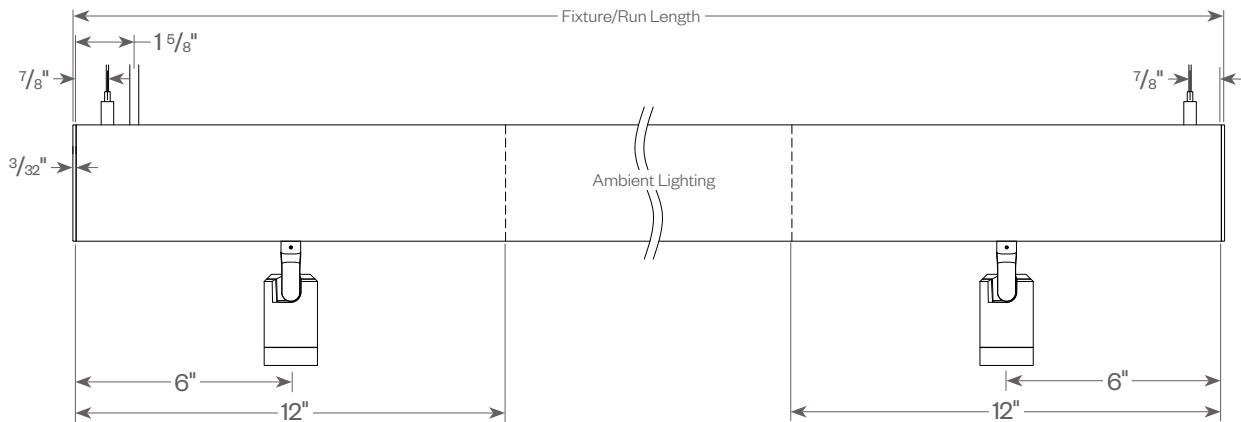
Linear Direct with Adjustable Accents, LED



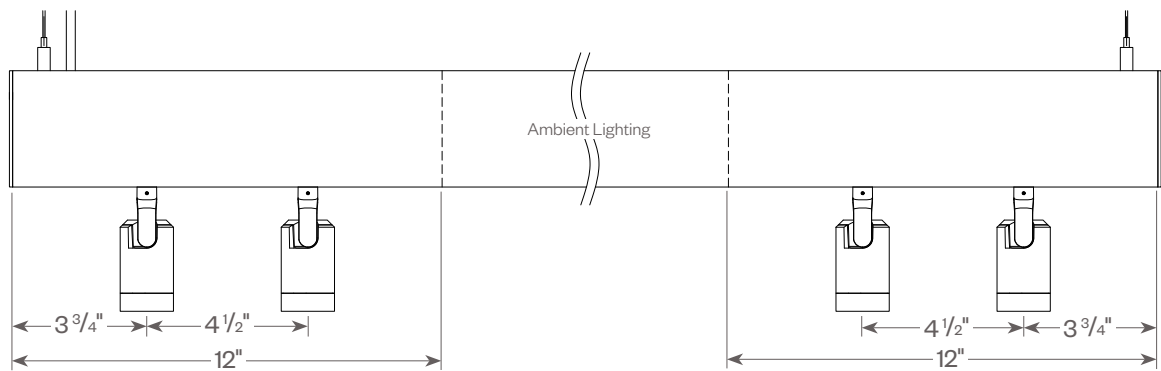
PROJECT:

TYPE:

1 ACCENT ON EACH PLATE



2 ACCENTS ON EACH PLATE

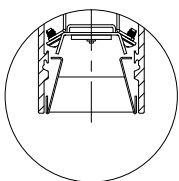


OPTIONAL LENS/LOUVER



For Asymmetric distribution this should be opposite the wall

Optional Asymmetric Lens



Optional Louver

Linea[®] 1.5" Direct with Accents

Linear Direct with Adjustable Accents, LED

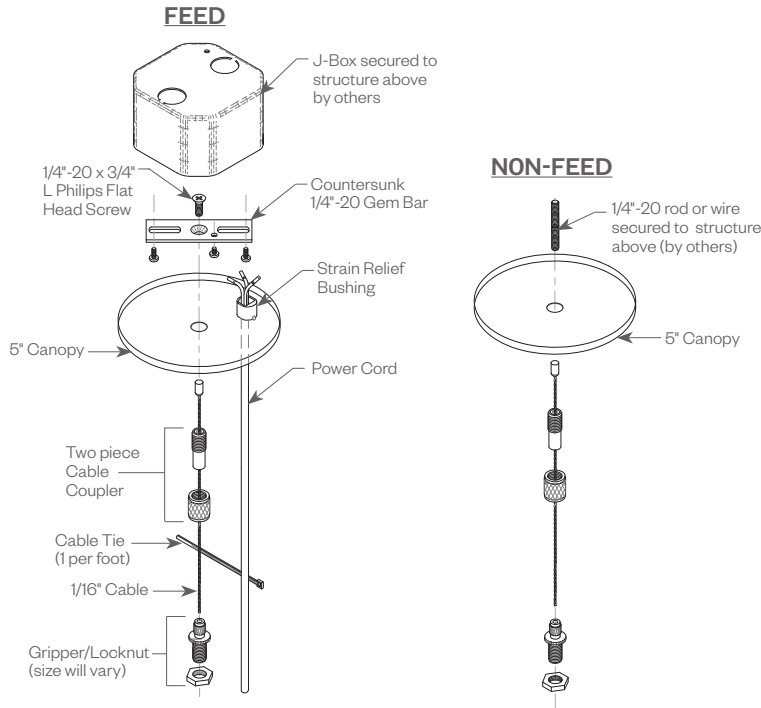


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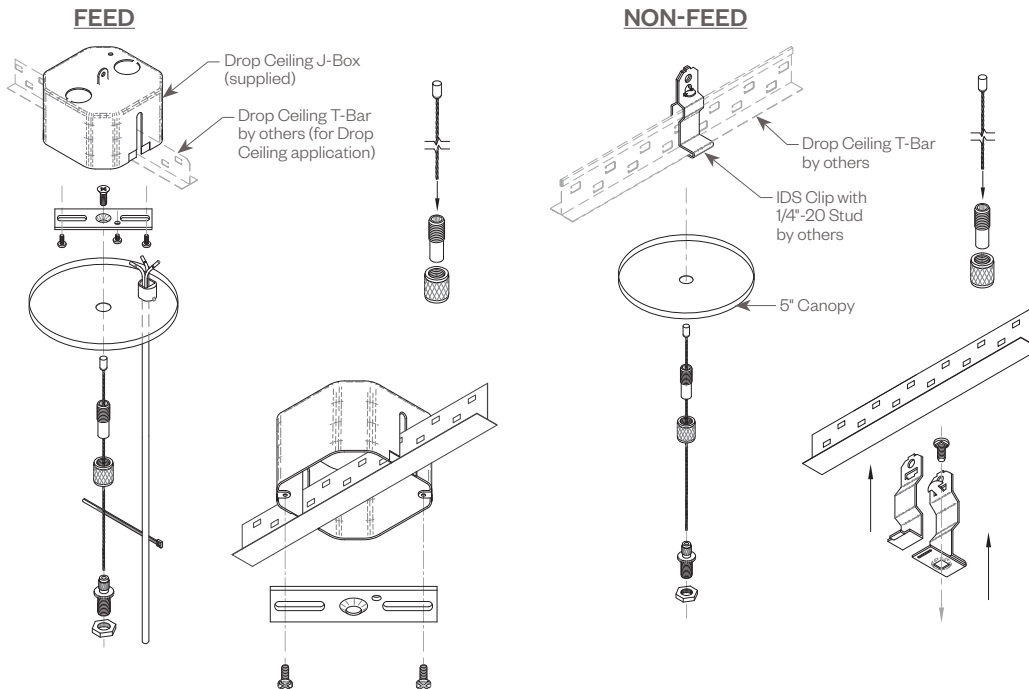
CABLE KIT SUSPENSION OPTIONS:

CEILING OR GYPSUM BOARD (ASW10, ASB10)



Cat#	Length	Cord/Canopy	Application
ASW10	10'	white/white	ceiling tile/gypsum
ASB10	10'	black/black	ceiling tile/gypsum
ASW10T	10'	white/white	ceiling tee
ASB10T	10'	black/black	ceiling tee

TEE GRID OR SCREW SLOT (ASW10T, ASB10T)



Linea® 1.5" Direct with Accents

Linear Direct with Adjustable Accents, LED



PROJECT:

TYPE:

FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

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

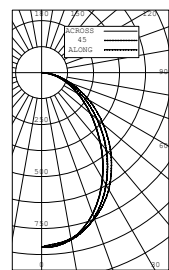
Wattage:	3W	4W	5W	6W	7W	8W	9W
Factor:	0.63	0.82	1.0	1.17	1.34	1.50	1.64

	Louver	
Finish:	SLV	BLK
Factor:	1.0	.65

CCT-CRI:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	3500K-90+	4000K-90+
Factor:	0.91	0.96	1.0	1.01	0.80	0.84	0.88	0.89

LINEA 1.5" PERFORMANCE LENS 5W 3500K 4FT

Total Watts: 21
Total Lumens: 1,840
Source: 96 White LED's



LTL# 695285

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	614	33.36
0-40	958	52.08
0-60	1535	83.42
0-90	1840	100.00
40-90	882	47.92
60-90	305	16.58
90-180	0	0.00
0-180	1840	100.00

Efficacy = 87.6 Lumens /Watt

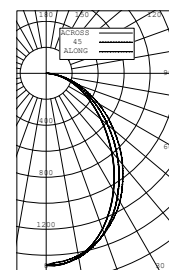
COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80			
RW	70	50	30	10
RCR				
0	1.19	1.19	1.19	1.19
1	1.10	1.06	1.03	0.99
2	1.02	0.95	0.89	0.8
3	0.94	0.85	0.78	0.72
4	0.88	0.77	0.69	0.64
5	0.81	0.70	0.62	0.56
6	0.75	0.63	0.55	0.49
7	0.69	0.57	0.49	0.44
8	0.65	0.52	0.44	0.39
9	0.60	0.48	0.40	0.35
10	0.56	0.44	0.36	0.31

LINEA 1.5" PERFORMANCE LENS 10W 3500K 4FT

Total Watts: 42
Total Lumens: 3,263
Source: 96 White LED's



LTL# 695286

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	1082	33.16
0-40	1691	51.83
0-60	2716	83.25
0-90	3263	100.00
40-90	1572	48.17
60-90	547	16.75
90-180	0	0.00
0-180	3263	100.00

Efficacy = 78.4 Lumens /Watt

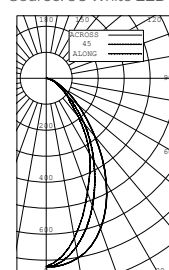
COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80			
RW	70	50	30	10
RCR				
0	1.19	1.19	1.19	1.19
1	1.10	1.06	1.03	0.99
2	1.02	0.95	0.89	0.84
3	0.94	0.85	0.78	0.72
4	0.87	0.77	0.69	0.63
5	0.81	0.70	0.61	0.55
6	0.75	0.63	0.55	0.49
7	0.69	0.57	0.49	0.43
8	0.65	0.52	0.44	0.39
9	0.60	0.48	0.40	0.34
10	0.56	0.44	0.36	0.31

LINEA 1.5" STRAIGHT BLADE LOUVER (SLV) 5W 3500K 4FT

Total Watts: 21
Total Lumens: 909
Source: 96 White LED's



LTL# 695287

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	443	48.71
0-40	633	69.58
0-60	842	92.63
0-90	909	100.00
40-90	277	30.42
60-90	67	7.37
90-180	0	0.00
0-180	909	100.00

Efficacy = 43.3 Lumens /Watt

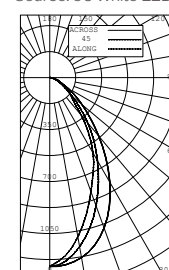
COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80			
RW	70	50	30	10
RCR				
0	1.19	1.19	1.19	1.19
1	1.12	1.09	1.06	1.04
2	1.06	1.00	0.96	0.92
3	0.99	0.92	0.87	0.82
4	0.94	0.85	0.79	0.74
5	0.88	0.79	0.72	0.67
6	0.83	0.73	0.66	0.62
7	0.78	0.68	0.61	0.56
8	0.74	0.63	0.56	0.52
9	0.69	0.58	0.52	0.47
10	0.65	0.54	0.48	0.43

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

Total Watts: 42
Total Lumens: 1,599
Source: 96 White LED's



LTL# 695288

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	776	48.51
0-40	1109	69.33
0-60	1479	92.46
0-90	1599	100.00
40-90	491	30.67
60-90	121	7.54
90-180	0	0.00
0-180	1599	100.00

Efficacy = 38.4 Lumens /Watt

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80			
RW	70	50	30	10
RCR				
0	1.19	1.19	1.19	1.19
1	1.12	1.09	1.06	1.03
2	1.06	1.00	0.96	0.92
3	0.99	0.92	0.86	0.82
4	0.94	0.85	0.79	0.74
5	0.88	0.79	0.72	0.67
6	0.83	0.73	0.66	0.62
7	0.78	0.67	0.61	0.56
8	0.73	0.63	0.56	0.51
9	0.69	0.58	0.52	0.47
10	0.65	0.54	0.48	0.43

Linea[®] 1.5" Direct with Accents

Linear Direct with Adjustable Accents, LED



PROJECT:

TYPE:

FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

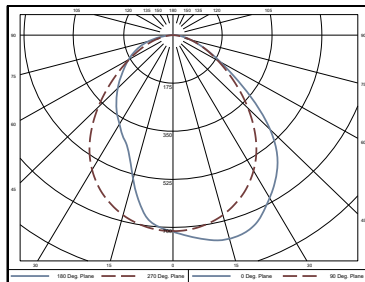
MULTIPLYING FACTORS: (Multiplying Factor is based on 3000K-83 120V IES file on website)

Wattage:	3W	4W	5W	6W	7W	8W	9W
Factor:	0.63	0.82	1.0	1.17	1.34	1.50	1.64

CCT-CRI:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	3500K-90+	4000K-90+
Factor:	0.95	1.0	1.04	1.05	0.83	0.88	0.92	0.94

LINEA 1.5" ASYMMETRIC LENS 5W 3000K 4FT

Total Watts: 19
Total Lumens: 1,649
Source: 96 White LED's



LTL# 1103575

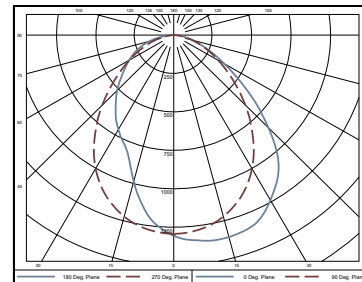
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	836	50.7
0-60	1376	83.4
0-90	1649	100.00
90-180	0	0.00

Efficacy = 85.4 Lumens /Watt

LINEA 1.5" ASYMMETRIC LENS 10W 3000K 4FT

Total Watts: 39
Total Lumens: 3,002
Source: 96 White LED's



LTL# 1103574

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1508	50.2
0-60	2494	83.1
0-90	3002	100.00
90-180	0	0.00

Efficacy = 77.5 Lumens /Watt

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80			
BW	70	50	30	10
RCR (values expressed as lumens delivered to task surface)				
0	1963	1963	1963	1963
1	1807	1734	1668	1609
2	1654	1527	1421	1332
3	1517	1352	1225	1124
4	1395	1207	1069	964
5	1288	1085	943	839
6	1193	982	840	739
7	1109	894	755	658
8	1035	819	684	591
9	969	754	623	535
10	910	698	571	487

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80			
BW	70	50	30	10
RCR (values expressed as lumens delivered to task surface)				
0	3574	3574	3574	3574
1	3287	3153	3033	2925
2	3008	2774	2581	2419
3	2756	2456	2223	2038
4	2534	2190	1939	1746
5	2339	1968	1709	1518
6	2166	1780	1522	1336
7	2013	1621	1367	1188
8	1878	1484	1237	1067
9	1758	1366	1127	965
10	1651	1264	1033	879

Linea[®] 1.5" Direct with Accents

Linear Direct with Adjustable Accents, LED



PROJECT:

TYPE:

ACCENT FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

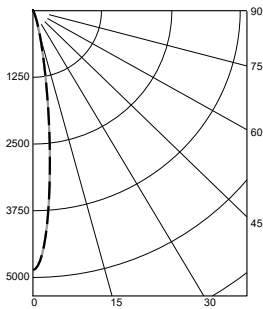
MULTIPLYING FACTORS: (Multiplying Factor is based on 3000K-83 120V IES file on website)

CCT:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	CRISP
Factor:	0.96	1.0	1.02	1.04	0.80	0.83	0.65

Accent Lights 7W

Note: Data per head

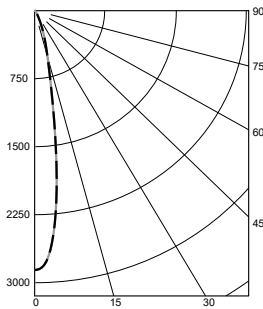
Spot (SP) Distribution, 13°
LTL #1274675
Lumens: 451



Candelas at Nadir

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

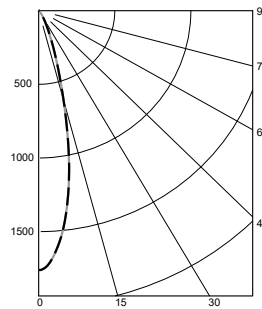
Narrow Flood (NF) Distribution, 18°
LTL#1274676
Lumens: 429



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).

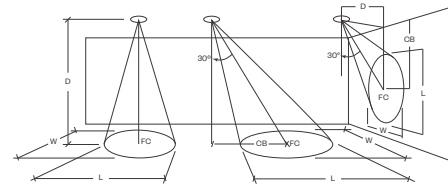
D=Distance to floor or wall.

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

Linea[®] 1.5" Direct with Accents

Linear Direct with Adjustable Accents, LED



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:

- 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†:

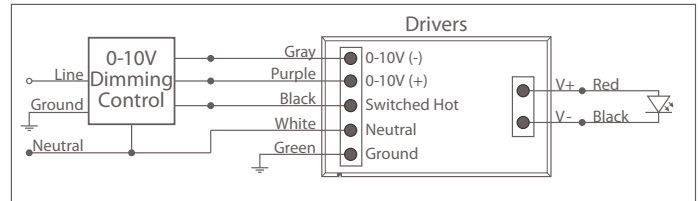
Wall Box

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

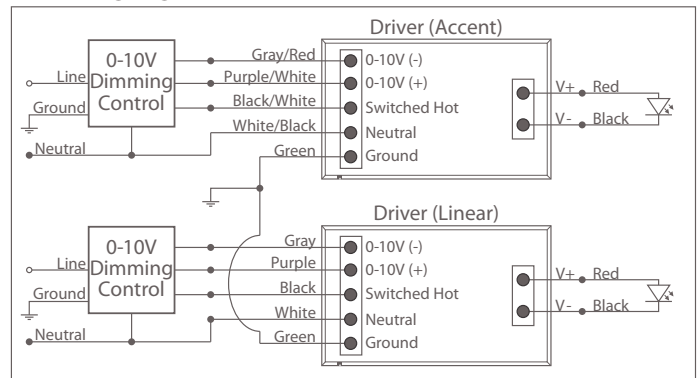
Center System

Lutron Grafikx Eye with GRX-TV1 Interface

0-10V Wiring Diagram (1 Circuit)



0-10V Wiring Diagram (2 Circuit)



DALI - DALI DIMMING

Digital control protocol allows individual fixture control

Notes:

- 120VAC - 277VAC*
- Dims down to 1% light output in most cases

Compatible Dimmers†:

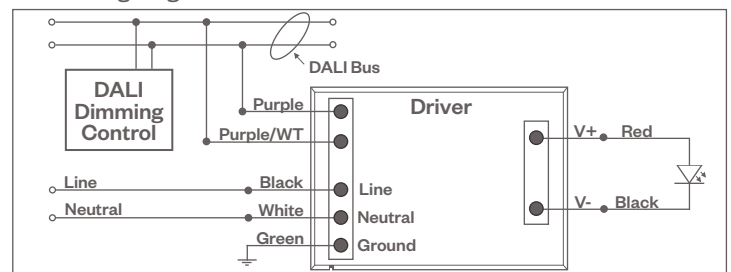
Wall Box

Leviton CD250 Controller

Center System

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.