Linea 2.5"

Linear Indirect LED

amerlux
A Delta Group Company
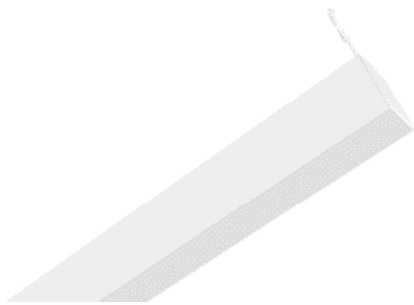
Features

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

Product Overview

Type:	Cable Suspended or Wall Mounted Indirect
Wattage:	5W/ft, 10W/ft (other wattages availavle see p2)
Color Temp:	2700K, 3000K, 3500K, 4000K; Tunable White (2700K-5700K)
CRI:	83 or 90+ typ. (2700K, 3000K, 3500K, 4000K) 90+ (Tunable White)

Dimming (wired):	Static White	Tunable White
	0-10V, 1% dimming (standard)	0-10V TW, 1% dimming
	Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black	DALI DT8, 1% digital dimming
	DALI dimming, 1% dim	
Dimming (wireless):	Enlighted Sensor	Enlighted Sensor TW
	Lutron Athena (integral wireless RF node)	Lutron Athena TW (integral wireless RF node)
Fixture Weight:	7.5 lbs (4ft fixture)	

PROJECT:

TYPE:

Fixture Summary *(see following pages for more information)*

Performance Chart (4' Fixture)

Nominal Wattage/Foot	Delivered Lumens	LPW	Color Temp-CRI
5	2354	117.7	3500K-83
10	4441	132.8	3500K-83

Data is based on 3500K-83 IES files available on website
Data is based on 4' fixture with Upper Clear lens

Runs

Individual Runs: 2' - 8' *(whole foot standard)*
Continuous Runs: Available *(whole foot standard)*
Custom: Made to measure available (nearest 1/8" of field dimensions).
        Requires approval drawings. Added cost & lead time.

Electrical Data

Wattage Per Foot		4'		8'	
		System Watts	Amps	System Watts	Amps
5	120V	17	0.14	34.1	0.28
	277V	17	0.06	34.1	0.12
10	120V	33.4	0.28	66.9	0.56
	277V	33.4	0.12	66.9	0.24

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

Standard Patterns

"L"	"⌐"	"L"	"□"	"⌐L"	Wall to Ceiling	Custom*
Yes	Yes	Yes	Yes	Yes	No	Yes

* Submit drawing, consult factory

5 year limited warranty
AMERLUX LED

Linea® 2.5" Indirect
Linear Indirect LED

PROJECT: **TYPE:**

Ordering Information

LIN2.5I-A16 . _____ . _____ . ____ . _____ . ____ . 120/277 . _____ . _____ . _____ . _____

1   **2**   **3**   **4** **5** **6**   **7**   **8**   **9**   **10**   **11**

---

1 Model
LIN2.5I-A16⁺

2 Optics
UC - upper clear lens cover (standard)
BAT - batwing uplight

3 Mounting (aircraft cable suspension)
Pendant Mount (aircraft cable suspension)
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'

Wall Mount
WM - wall mount

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

5 Color Temp-CRI
Static White:

		Tunable White:
27 - 2700K-83	**279** - 2700K-90+	**TW9-2757** - tunable
30 - 3000K-83	**309** - 3000K-90+	white, 90 CRI
35 - 3500K-83	**359** - 3500K-90+	(2700K-5700K)
40 - 4000K-83	**409** - 4000K-90+	

6 Finish
HW - high reflectance matte white
BT - black texture
ST - silver texture
For other RAL color, consult factory

7 Voltage
120/277

8 Length
_____x _____ x _____

(Length A)	(Length B)	Length C)
Length A (used for)	Length B (used for)	Length C (used for)
- all patterns	- all patterns	- PU
- IND/IND-S+	- PR - 2 lengths	- PZ
- CON/CON-S+	of 2	
- CUS		

9 Configuration
IND¹ - individual fixture, 2' to 8' in 1' increments
CON - continuous run > than 8', specify to nearest foot
CUS - custom made to measure, +/- 1/8" of customer supplied field dimensions
Standard Patterns *(see page 6 for details)*:
PLL - L left, (2) straights + (1) 90° corner, leg right
PLR - L right, (2) straights + (1) 90° corner, leg left
PU - U shape, (3) straight lengths + (2) 90° corners
PR - Rectangle, (4) straight lengths + (4) 90° corners
PZ - Z shape, (3) straight lengths + (2) 90° corners
For custom patterns, submit EDR on amerlux.com

10 Drivers/Controls
Wired - Static White:
0-10V - 1% analogue dimming, 120-277VAC, Dim to off when selected with wireless dimming control
HILUME-H-ECO - Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black
DALI - DALI Dimming 120-277VAC, 1% dim
Wired - Tunable White:
0-10V TW - 1% dimming , multi-volt (120V-277V) constant current
DALI DT8 - 1% digital dimming, CCT control per DALI DT8, (120V-277V) constant current
Wireless - Static White:
ENLS-SR - Enlighted sensor, energy metering
ENLS-010 - Enlighted sensor with controller unit
AWNR-WH-SR - Lutron Athena wireless node, RF only, white, D4i/DALI-2
AWNR-BL-SR - Lutron Athena wireless node, RF only, black, D4i/DALI-2
AWNR-WH-010 - Lutron Athena wireless node, RF only, white, 0-10V
AWNR-BL-010 - Lutron Athena wireless node, RF only, black, 0-10V
AWNS-OCC-WH-SR - Lutron Athena wireless node, Occupancy & Daylight sensor, white, D4i/DALI-2
AWNS-OCC-BL-SR - Lutron Athena wireless node, Occupancy & Daylight sensor, black, D4i/DALI-2
Wireless - Tunable White:
ENLS-SR-TW - Enlighted sensor, energy metering
AWNR-WH-SR-TW - Lutron Athena wireless node, RF only, white, D4i/DALI-2
AWNR-BL-SR-TW - Lutron Athena wireless node, RF only, black, D4i/DALI-2
AWNS-OCC-WH-SR-TW - Lutron Athena wireless node, Occupancy & Daylight sensor, white, D4i/DALI-2
AWNS-OCC-BL-SR-TW - Lutron Athena wireless node, Occupancy & Daylight sensor, black, D4i/DALI-2

11 Options/Accessories
EMC-PF² - emergency circuit requires power feed located in last fixture section (for other locations consult factory)
PF² - Extra power feed for additional circuiting
EMB* - emergency battery pack (not available for lengths under 4')

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1 - Lengths less than 4' may have restrictions based upon wattage, lengths, drivers or other options.
2 - Not available with IND (individual) configuration.
⁺ The "A" refers to the sequential revision in a year and "XX" refers to the year of update. Updates coincide with improved performance while not changing the overall fixture aesthetic and are reflected in the published performance data. Please contact your Amerlux representative for explanations of changes.

Linea® 2.5" Indirect

Linear Indirect LED

PROJECT: **TYPE:**

Specifications

Application

Open office plan, conference rooms, corridors or any indoor space where even, 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

Extruded acrylic lens with a maximum length of 8'.
UC - Upper Clear lens cover (standard)
BAT - Batwing uplight lens (optional) spreads light directly above fixture. 18" minimum distance between ceiling plane and top of fixture suggested.

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.

	Static White	Tunable White
CCT:	2700K, 3000K, 3500K, 4000K	2700K-5700K
CRI:	83 or 90+ typical	90+ (92 typ)
R9:	16 @ CRI 83; >50 @ CRI 90+	>50

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

Electrical

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 4'). 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.
EMC-PF - Emergency circuit requires power feed to be located in last fixture section for continuous runs. For other locations consult factory. Not available for individual (IND) configuration.
PF - Extra power feed for additional circuiting. Not available for individual (IND) configuration.

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 2 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.
CON - Continuous runs, > 8', specified to nearest whole foot length in 1' 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.
CUS - Custom made to measure runs are made to nearest 1/8"of customer supplied field measurements or drawings. Custom lengths use the same hardware for hairline joining.
PXX - Standard Patterns consist of 90º corners with standard lengths (4' to 8' in 1' increments), continuous runs or made to measure lengths. Depending upon complexity of the pattern drawings may be required from the customer. When ordering please give overall lengths.
A'-B'-PLL - L Left - (1) 90º Corner 2 segments. Specify overall segments: A' & B'
A'-B'-PLR - L Right - (1) 90º Corner 2 segments. Specify overall segments: A' & B'
A'-B'-PR - Rectangle - (4) 90º Corners joining 4 segments. Specify overall segments: A' & B'
A'-B'-C'-PU - U shape - (2) 90º Corners joining 3 segments. Specify overall segments: A', B', & C'
A'-B'-C'-PZ - Z shape - (2) 90º Corners joining 3 segments. Specify overall segments: A', B', & C'
See page 6 for layouts.
PC - Custom Patterns may use standard lengths, Made To Measure, 90º or other corners (some limitations). Please provide drawing and consult factory.

Mounting

The Linea 2.5 Indirect is intended to be pendant or wall mounted in continuous rows. For indirect lighting Amerlux suggests 18" min from top of fixture to ceiling. Standard or custom patterns available.
LIN2.5I-A16...ASW10 - Indirect pendant installed in center of ceiling tile or gypsum board ceiling, (standard) i.e. ASW10. Or if canopy is installed on a grid Tee runner add, **T** i.e. ASW10T
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
LIN2.5I-A16....WM - Indirect Wall Mounted using steel cleat bracket attached to fixture housing and wall bracket with set screws. Two bracket assemblies are used for each length under 8'. A third center bracket may be recommended. J box required at feed locations.

Certifications

Approved to UL standards for damp locations as tested by CSA
Intended for indoor use only

Warranty

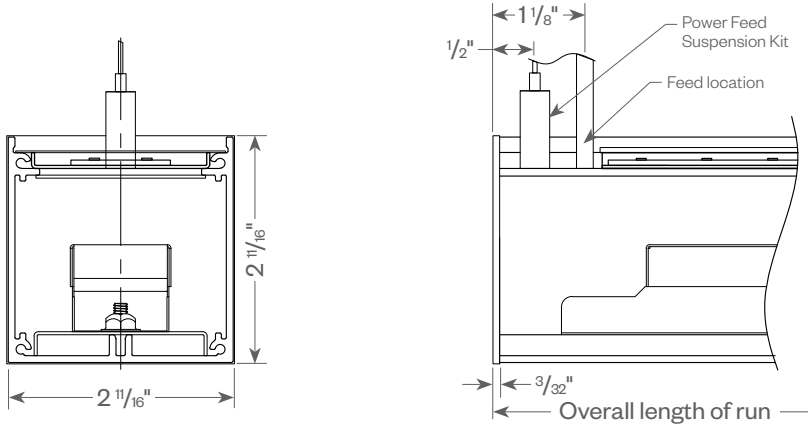Amerlux's 5 year limited warranty. Please consult Amerlux website for details.

LIT-2049 • 04/08/24 • Page 3 of 10
Amerlux reserves the right to change details that do not affect overall function and performance.
Amerlux®, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com

Linea® 2.5" Indirect

Linear Indirect LED

PROJECT: **TYPE:**

LINEA 2.5" INDIRECT

1 1/8"
1/2"
Power Feed Suspension Kit
Feed location
2 11/16"
2 11/16"
3/32"
Overall length of run

LINEA 2.5" INDIRECT WALL MOUNT

2 11/16"
1/2"
2 11/16"
3 3/16"

6" O.C.
Feed location
3/32"
Overall length of run
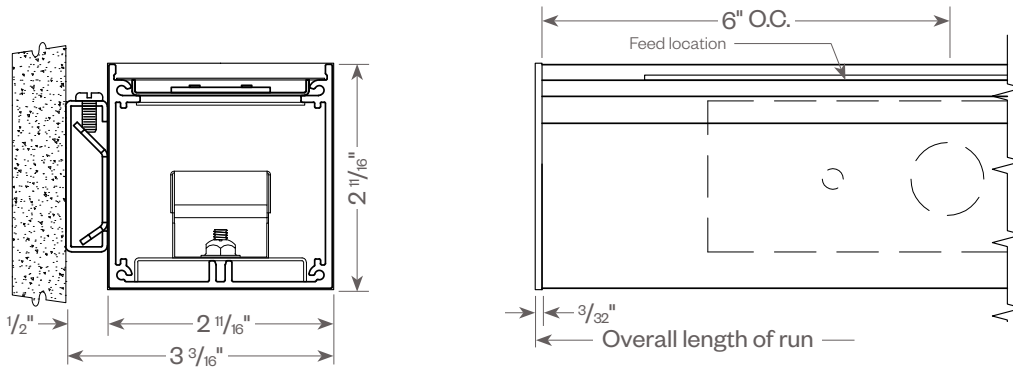
Linea® 2.5" Indirect

Linear Indirect LED

PROJECT: **TYPE:**

CABLE KIT SUSPENSION OPTIONS:

CEILING OR GYPSUM BOARD (ASW10, ASW20, ASB10, ASB20)
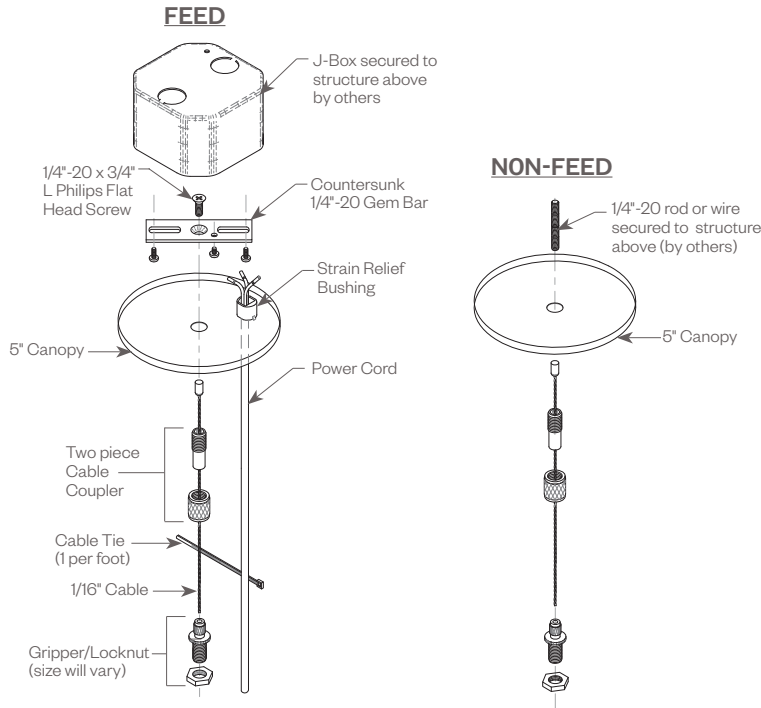
Cat#	Length	Cord/Canopy	Application
ASW10	10'	white/white	ceiling tile/gypsum
ASW20	20'	white/white	ceiling tile/gypsum
ASB10	10'	black/black	ceiling tile/gypsum
ASB20	20'	black/black	ceiling tile/gypsum
ASW10T	10'	white/white	ceiling tee
ASW20T	20'	white/white	ceiling tee
ASB10T	10'	black/black	ceiling tee
ASB20T	20'	black/black	ceiling tee

FEED

J-Box secured to structure above by others

1/4"-20 x 3/4" L Philips Flat Head Screw

Countersunk 1/4"-20 Gem Bar

Strain Relief Bushing

5" Canopy

Power Cord

Two piece Cable Coupler

Cable Tie (1 per foot)

1/16" Cable

Gripper/Locknut (size will vary)

NON-FEED

1/4"-20 rod or wire secured to structure above (by others)

5" Canopy

TEE GRID OR SCREW SLOT (ASW10T, ASW20T, ASB10T, ASB20T)

FEED

Drop Ceiling J-Box (supplied)

Drop Ceiling T-Bar by others (for Drop Ceiling application)

NON-FEED

Drop Ceiling T-Bar by others

IDS Clip with 1/4"-20 Stud by others

5" Canopy
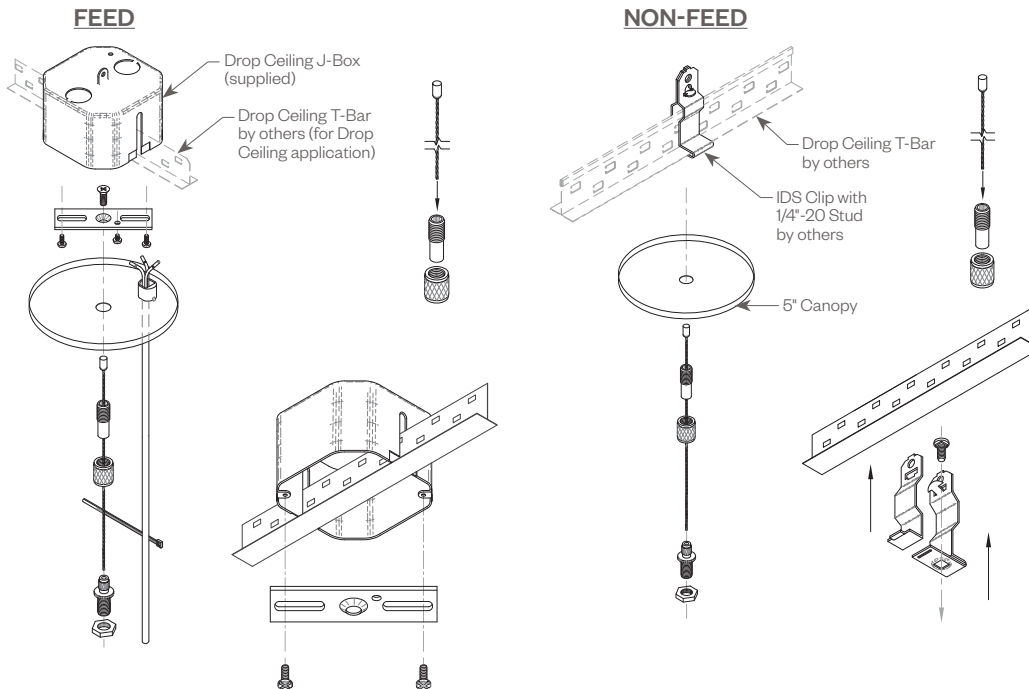
Linea® 2.5" Indirect
Linear Indirect LED

PROJECT: **TYPE:**

OPTIONAL SENSOR/RF NODE:

Amerlux® has partnered with control companies to create building environments that are safer, and smarter, than ever before. At the heart of our partnership is intelligent RF nodes and Smart Sensor, the most advanced digital wireless communication and sensors available today. Integrated into Amerlux products.

Minimum run length is 3' for wireless sensor and RF node.

INDIVIDUAL (MIN 3' LENGTH)

Optional Enlighted Sensor

RUNS

8'   8'
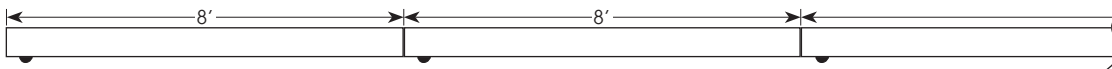
LINEA 2.5" PATTERNS:

Standard Patterns
All corners are standard 90°, standard length legs.
Use standard lengths: 4' min to 8' in 1 foot increments.
Continuous runs must be the same length in pairs for closed configuration.

Custom Patterns
Please provide drawings of your configuration.
Made to Measure: +/- 1/8", consult factory.
PC - custom pattern, please provide drawings and consult factory

90°
6"
6"
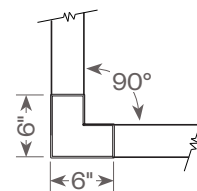
Linea 2.5 Indirect
Solid, not lit

PLL

PLR

B

B

A

Feed

A

Feed
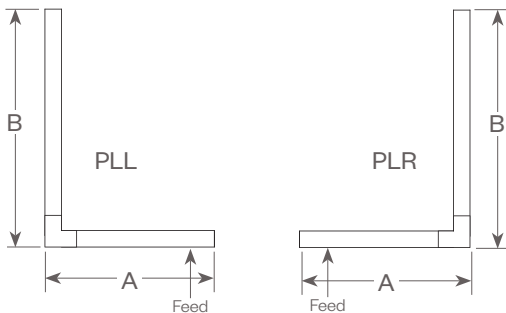
PLL - L Left, (2) straights + (1) 90° corner, leg right
PLR - L Right, (2) straights + (1) 90° corner, leg left
Provide overall lengths: A' & B'
Nomenclature: A-B-PLL   A-B-PLR

B

A

A

B

Feed
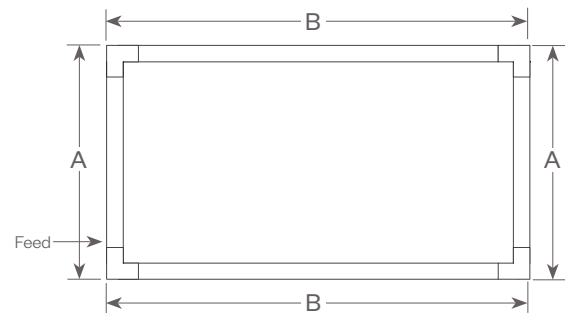
PR - Closed Rectangle, (4) straight lengths + (4) 90° corners
Provide overall lengths: A' & B'
Nomenclature: A-B-PR

B

A

C

Feed
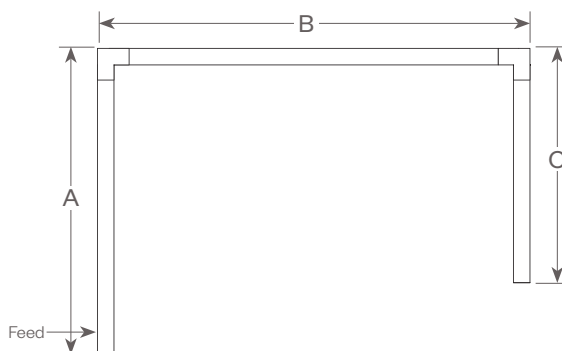
PU - Open U, (3) straight lengths + (2) 90° corners
Provide overall lengths: A', B' & C'
Nomenclature: A-B-C-PU

C

B

A

Feed
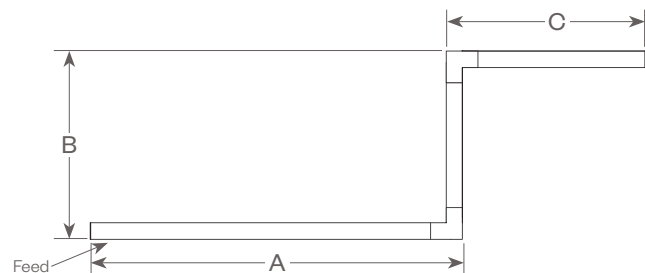
PZ - Open Z, (3) straight lengths + (2) 90° corners
Provide overall lengths: A', B' & C'
Nomenclature: A-B-C-PZ

Linea® 2.5" Indirect

Linear Indirect LED

PROJECT: **TYPE:**

FIXTURE DATA:

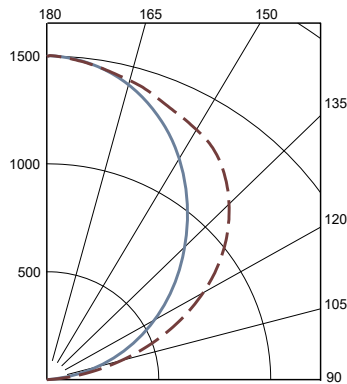**MULTIPLYING FACTORS:** (Multiplying Factor is based on 3500K-83 120V IES file on website)

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:					TW9
CRI	2700K	3000K	3500K	4000K	(@3500K)
83	0.92	0.97	1.0	1.02	-
90	0.81	0.84	0.86	0.89	0.86

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	4442	100.0

Efficacy (lumens/watt) = 132.8 lm/W

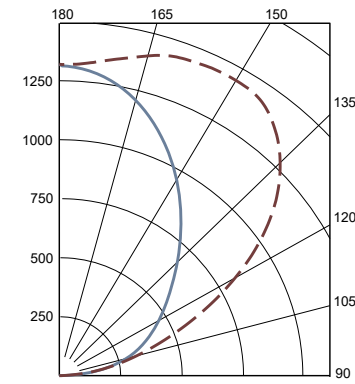#### COEFFICIENTS OF UTILIZATION
Effective Floor Cavity Reflectance 20%

RC		80		
RW	70	50	30	10
RCR				
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 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		
RW	70	50	30	10
RCR				
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
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PROJECT: **TYPE:**

STATIC WHITE - 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!

0-10V Wiring Diagram
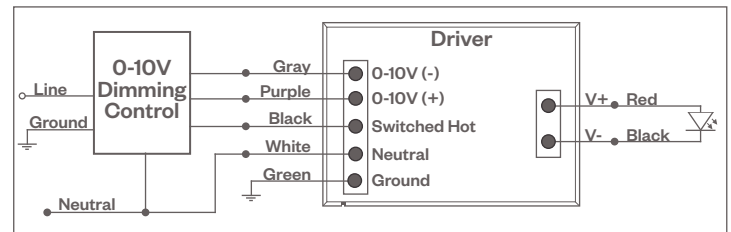
Compatible Dimmers†:

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

LUTRON LDE1 DIMMING
Integrates into Lutron EcoSystem building management

Notes:
- 120VAC or 277VAC*
- Dims down to 1% Soft-On/Fade-to-Black
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!

Lutron LDE1 (HILUME-H-ECO) EcoSystem Digital Control Wiring Diagram
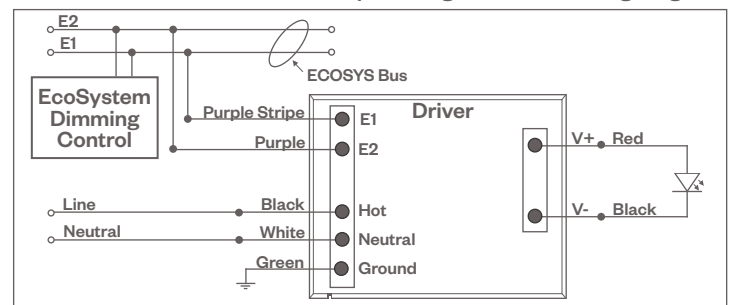
Compatible Dimmers†:

Lutron ECO System

Pow Pak Dimming Modules
Energi Savr Node
Grafik Eye QS/Homeworks
QS Control Unit
Quantum Hub
Homeworks QS/My Room

Central System

Lutron EcoSystem
compatible controls

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.

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PROJECT: **TYPE:**

STATIC WHITE - DIMMING COMPATIBILITY:
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--- 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*
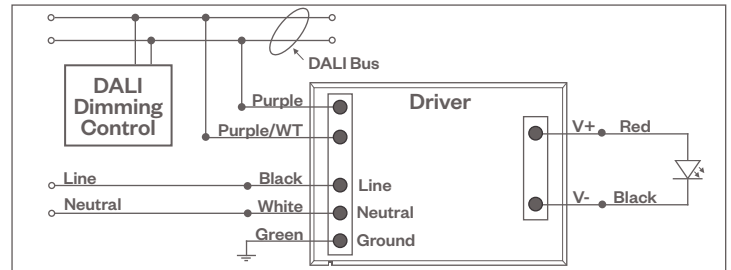- Dims down to 1% light output in most cases

Compatible Dimmers†:

Wall Box
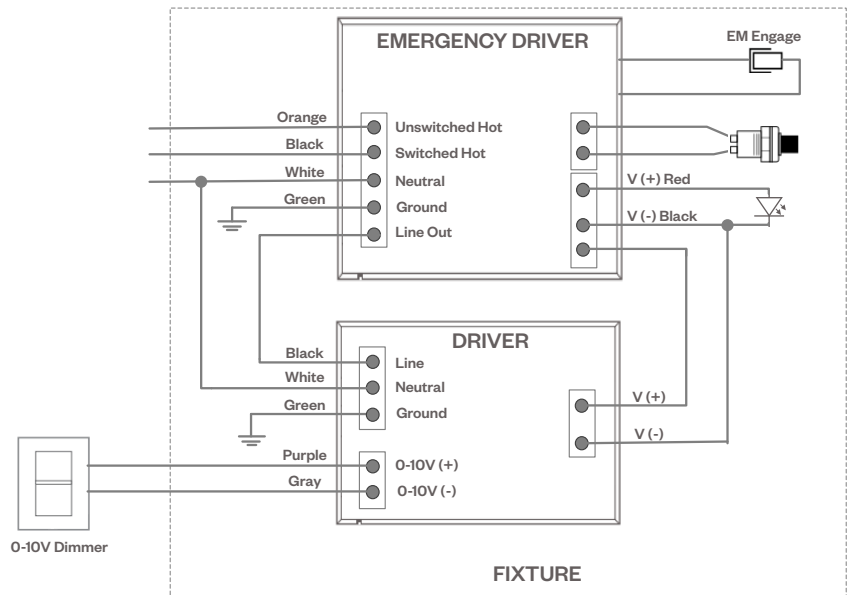Leviton CD250 Controller

Center System
Dynalite
Fifth Light

DALI Wiring Diagram

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.
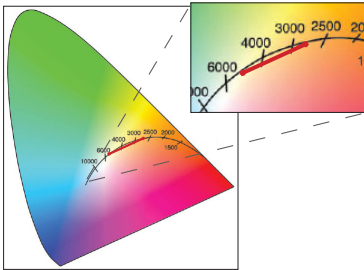
Linea® 2.5" Indirect

Linear Indirect LED

**PROJECT:**   **TYPE:**

TUNABLE WHITE

Tunable White range from 2700K-5700K, 90 CRI.
See wiring diagrams below.

TUNABLE WHITE - DIMMING COMPATIBILITY:
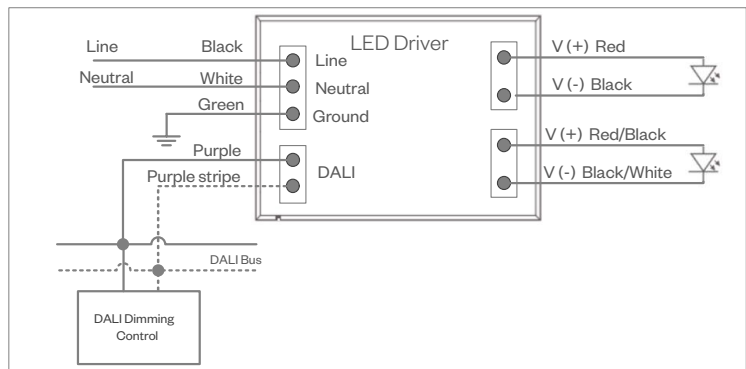Amerlux® Linea fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc) may affect dimming performance.

--- **NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY** ---

0-10V Wiring Diagram
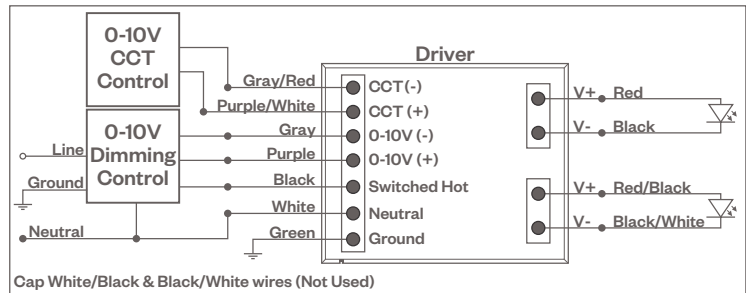
DALI DT8 Wiring Diagram

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.
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