

Producer

Linear LED



Features

The Producer is a linear LED pendant fixture. At 5 or 10 watts per foot, it features a high efficient 60° or 80° batwing distribution, providing the right amount of light for your shelving displays. For more general illumination applications, a symmetrical distribution is offered. Available in 2' - 8' (standard) run lengths, the Producer offers various color temperatures, an optional 20% uplight component, as well as 0-10V dimming. The Producer is ideal choice for aisle lighting or general lighting in supermarkets.

Product Overview

Type:	Direct, Symmetrical or Batwing Lens, Louver
Wattage:	5W/ft, 10W/ft (other wattages consult factory)
Lumen Output:	5,016 max; 132.4 Lm/W (38W, BAT60, 4ft fixture)
Color Temp:	2700K, 3000K, 3500K, 4000K
CRI:	83 typ. or 90+ typ
Dimming:	0-10V, 1% dim (standard) Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black DALI dimming, 1% dim



PROJECT:

TYPE:

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

Performance Chart (4' Fixture)

Nominal Wattage/Foot	Actual Wattage/Foot	Total Wattage	Delivered Lumens	LPW	Color Temp-CRI
5	4.75	19	2,809	147.8	3500K-83
10	9.5	38	5,016	132.4	3500K-83

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

Data is based on 4' fixture with 60° Batwing lens

Runs

Individual Runs: 2' - 8' *(whole foot standard)*

Continuous Runs: Available *(whole foot standard)*

Electrical Data

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

Standard Patterns

"L"	"J"	"U"	"□"	Wall to Ceiling
Yes	Yes	Yes	Yes	No

**Submit drawing, consult factory*



PROJECT:

TYPE:

Ordering Information

PROD-A16						120/277																													
1	2	3	4	5	6	7	8	9	10	11																									
1	<u>Model</u> PROD-A16 [†]					7	<u>Voltage</u> 120/277																												
2	<u>Optics</u> BAT60 - batwing 60° BAT80 - batwing 80° DL - designer lens, symmetrical distribution					8	<u>Length</u> <table><tr><td colspan="2">x</td><td colspan="2">x</td></tr><tr><td>(Length A)</td><td>(Length B)</td><td>(Length B)</td><td>(Length C)</td></tr><tr><td>Length A (used for)</td><td>Length B (used for)</td><td>Length B (used for)</td><td>Length C (used for)</td></tr><tr><td>- all patterns</td><td>- all patterns</td><td>- all patterns</td><td>- PU</td></tr><tr><td>- IND</td><td>- PR - 2 lengths</td><td>- all patterns</td><td>- PZ</td></tr><tr><td>- CON</td><td>of 2</td><td></td><td></td></tr></table>					x		x		(Length A)	(Length B)	(Length B)	(Length C)	Length A (used for)	Length B (used for)	Length B (used for)	Length C (used for)	- all patterns	- all patterns	- all patterns	- PU	- IND	- PR - 2 lengths	- all patterns	- PZ	- CON	of 2		
x		x																																	
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- all patterns	- all patterns	- all patterns	- PU																																
- IND	- PR - 2 lengths	- all patterns	- PZ																																
- CON	of 2																																		
3	<u>Mounting</u> 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' 1420P - mounting plate gripper with 1/4"-20 x 3/8" stud, power feed by others					9	<u>Configuration</u> IND ¹ - individual fixture, 2' to 8' (5W minimum at 2') CON - continuous run, > 8' in 1' increments Standard Patterns (see page 5 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																												
4	<u>Wattage (per foot)</u> Standard: 5 - 5W/ft 10 - 10W/ft Optional: 3 - 3W/ft 4 - 4W/ft 6 - 6W/ft 7 - 7W/ft 8 - 8W/ft 9 - 9W/ft					10	<u>Drivers</u> 0-10V - 1% electronic dimming , multi-volt (120-277VAC) constant current driver (standard) HILUME-H-ECO - Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black DALI - DALI Dimming 120-277VAC, 1% dim																												
5	<u>Color Temp</u> <table><tr><td>83 CRI:</td><td>90+ CRI:</td></tr><tr><td>27 - 2700K-83</td><td>279 - 2700K-90+</td></tr><tr><td>30 - 3000K-83</td><td>309 - 3000K-90+</td></tr><tr><td>35 - 3500K-83</td><td>359 - 3500K-90+</td></tr><tr><td>40 - 4000K-83</td><td>409 - 4000K-90+</td></tr></table>					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+	11	<u>Options</u> LVRHW - straight blade louver, high reflectance white LVRBT - straight blade louver, black texture LVRST - straight blade louver, silver texture (Louvers are used in conjunction with lens) UL - uplight (20%) UL8 - uplight (8%) ENLS - Enlighted Sensor (0-10V driver only) PF ² - Extra power feed for emergency circuit or additional circuiting EMB - emergency battery pack (not available for lengths under 4')																		
83 CRI:	90+ CRI:																																		
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6	<u>Finish</u> HW - high reflectance matte white BT - black texture ST - silver texture For other RAL color, consult factory																																		

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.

PROJECT:

TYPE:

Specifications

Application

Pendant direct symmetric or batwing lens distribution for aisle, shelving or general ambient lighting. Optional 20% uplight component adds a feeling of volume to the space.

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

All lenses are snap-in, extruded acrylic, with a maximum length of 8'.
DL - Designer Lens provides flat even glow on lens. Best when lens is in direct or constant view. Such as vertical wall mounted.

BAT60 - 60° batwing distribution for wide light distribution.

BAT80 - 80° batwing distribution for very wide light distribution.

Optional:

LVR XX - Straight Blade Louver direct, fits over PL, BAT60, or BAT80 lenses for increased shielding.

HW - High reflectance White

BT - Black Textured

ST - Silver Textured

UL - Optional uplight component (12" every 4'-0"). Shares driver with downlight component and creates an 80% down/20% up fixture. (Wattage remains constant)

UL8 - Optional uplight component (4" every 4'-0"). Shares driver with downlight component and creates an 92% down/8% up fixture. (Wattage remains constant)

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: 16 @ CRI 83

R9: >50 @ CRI 92

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 over voltage damage is not covered under warranty.

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. 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 with "catch and latch" mechanism out of sight, on top of the Housing. Wiring is made fast and positive with molded quick connectors.

PXX - Standard Patterns consist of 90° corners with standard lengths (4' to 8' in 1' increments) for lit sections of pattern, continuous runs.

Depending upon complexity of the pattern drawings may be required from the Customer. If ordering please give overall lengths.

A'-B'-PLL - L Left - (1) 90° Corner (*AC upper segment) 2 segments. Specify overall segments: A' & B'

A'-B'-PLR - L Right - (1) 90° Corner (**AC lower segment) 2 segments. Specify overall segments: A' & B'

A'-B'-PR - Rectangle - (4) 90° Corners joining 4 segments. Specify overall segments: A' & B'

A'-B'-C'-PU - U shape - (2) 90° Corners joining 3 segments. Specify overall segments: A', B', & C'

See page 5 for layouts.

Please note: Corners are not lighted

Mounting

Intended to be pendant mounted Individual fixtures or in continuous rows. Standard or custom patterns consult factory

PROD-A16 - Direct pendant in center of ceiling tile or gypsum board ceiling (standard).

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

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). Request can be made to light up 4ft section on 8ft unit.

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.

Producer

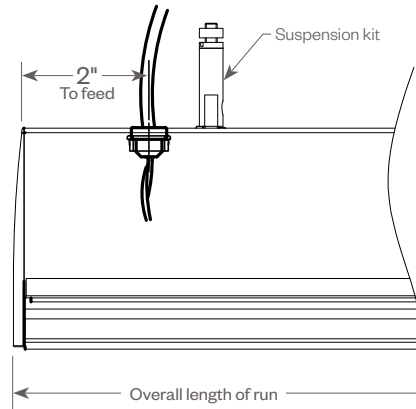
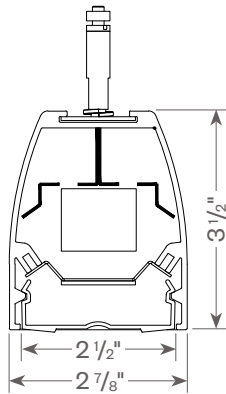
Linear LED



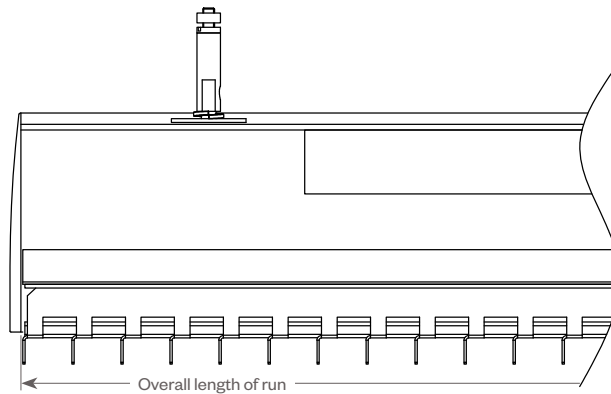
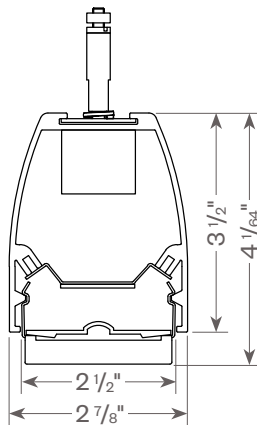
PROJECT:

TYPE:

PRODUCER

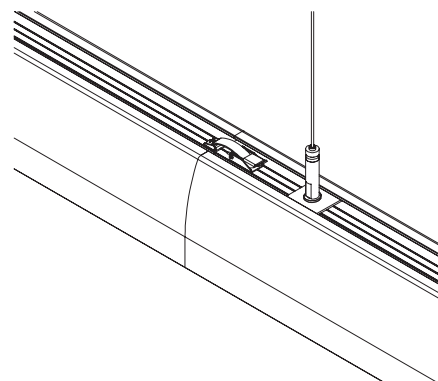
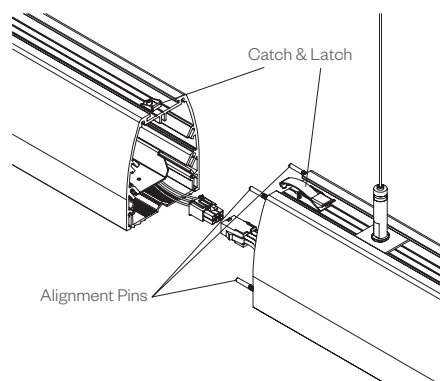


PRODUCER (WITH LOUVER)



TOOLLESS JOINING

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



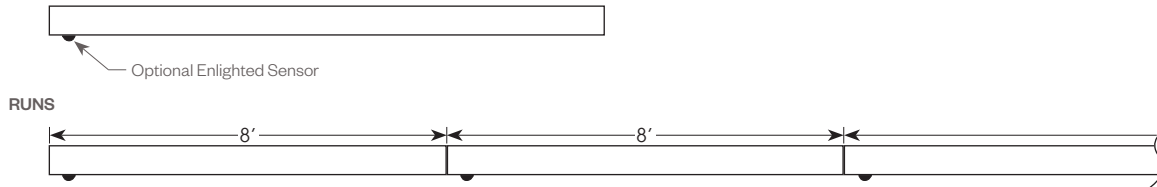
PROJECT:

TYPE:

OPTIONAL ENLIGHTED SENSOR:

Amerlux® and Enlighted have partnered to create building environments that are safer, and smarter, than ever before. At the heart of our partnership is Enlighted's Smart Sensor, the most advanced digital sensor available today. Integrated into Amerlux products, the sensor seamlessly collects and communicates dense data on building security, occupancy, performance, environmental conditions, ambient light levels, temperature, and energy consumption. This intelligence provides building managers with unprecedented guidance on cost savings and site-planning efficiencies. Enlighted Sensor (ENLS) is available with 0-10V driver only. Minimum run length is 4'. Enlighted power pack is provided with ENLS option.

4 FT OR 8 FT

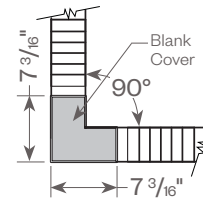


PRODUCER PATTERNS:

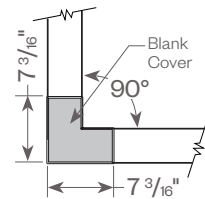
Standard Patterns

1. All corners are 90°, standard length legs of $7 \frac{3}{16}$ ".
2. All lit sections use standard lengths: 4' min to 8' in 1 foot increments.
3. Continuous runs must be the same length in pairs for closed configuration.

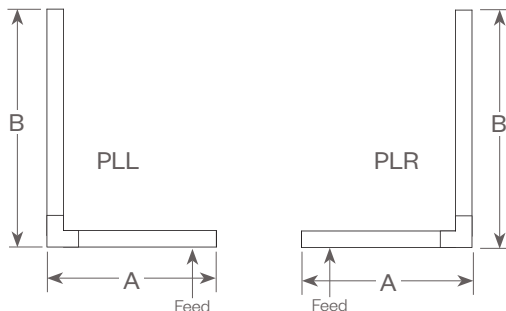
Overall pattern dimensions consist of $7 \frac{3}{16}$ " corner(s) + standard length lit sections.



Producer Louver
Butt Joint-Straight
Blade Louver



Producer Lens
Mitered Lens

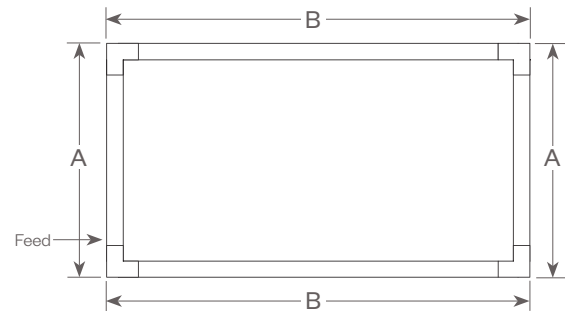


PLL - L Left, (2) straights + (1) 90° corner, leg right

PLR - L Right, (2) straights + (1) 90° corner, leg left

Provide overall lengths: A' & B'

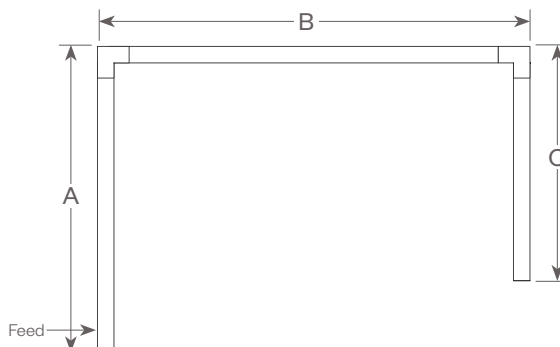
Nomenclature: A-B-PLL A-B-PLR



PR - Closed Rectangle, (4) straight lengths + (4) 90° corners

Provide overall lengths: A' & B'

Nomenclature: A-B-PR



PU - Open U, (3) straight lengths + (2) 90° corners

Provide overall lengths: A', B' & C'

Nomenclature: A-B-C-PU

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	10W
Factor:	0.36	0.46	0.56	0.66	0.76	0.85	0.93	1.0

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

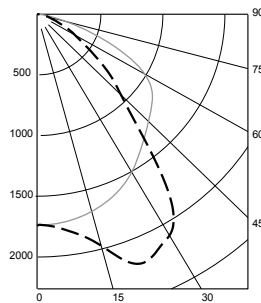
PRODUCER DIRECT, BAT60, 10W 3500K 4FT

Total Watts: 38

Total Lumens: 5,016

Source: 128 White LED's

LTL# 13360049.01



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	2739	54.6
0-60	4452	88.8
0-90	5016	100.00
90-180	0	0.00

Efficacy = 132.4 Lumens /Watt

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	70	50	30	10
RW				
ROR				
0	119	119	119	119
1	110	106	103	99
2	102	94	88	83
3	93	84	77	71
4	86	75	67	61
5	79	68	59	53
6	74	61	53	47
7	68	55	47	41
8	64	51	43	37
9	59	47	39	33
10	56	43	35	30

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

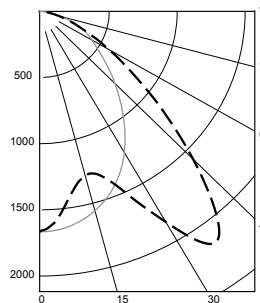
PRODUCER DIRECT, BAT80, 10W 3500K 4FT

Total Watts: 38

Total Lumens: 4,886

Source: 128 White LED's

LTL# 13360049.02



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	2124	43.5
0-60	4079	83.5
0-90	4886	100.00
90-180	0	0.00

Efficacy = 129.2 Lumens /Watt

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	70	50	30	10
RW				
ROR				
0	119	119	119	119
1	109	105	101	97
2	100	92	85	79
3	91	80	72	66
4	83	71	62	56
5	76	63	54	48
6	70	57	48	41
7	65	51	42	36
8	60	46	38	32
9	56	42	34	28
10	52	39	31	26

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

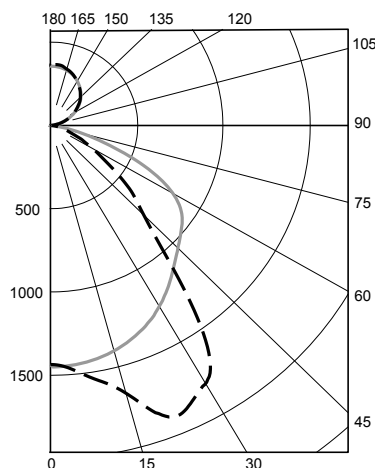
PRODUCER DIRECT, BAT60, 10W 3500K 4FT W/UPLIGHT

Total Watts: 38

Total Lumens: 5,266

Source: 128 White LED's (Direct) and 24 White LED's (Indirect)

LTL# 13402658.01



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	2310	43.9
0-60	3754	71.3
0-90	4222	80.2
90-180	1044	19.8

Efficacy = 141.0 Lumens /Watt

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	70	50	30	10
RW				
ROR				
0	114	114	114	114
1	106	102	98	95
2	97	90	84	79
3	89	80	73	67
4	82	71	63	57
5	76	64	56	50
6	70	58	49	44
7	65	52	44	39
8	60	48	40	34
9	56	44	36	31
10	53	40	33	28

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

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

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

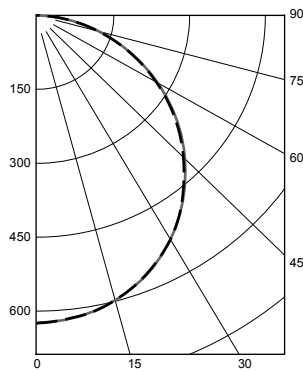
PRODUCER, SYMMETRICAL, 5W 3500K 4FT

Total Watts: 19

Total Lumens: 1,795

Source: 128 White LED's

LTL# 13170267.27



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	791	44.1
0-60	1395	77.7
0-90	1795	100.0
90-180	0	0.0

Luminaire Efficacy = 92.9 lm/w

COEFFICIENTS OF UTILIZATION

RC	70	50	30	10
RW				
RCR				
0	119	119	119	119
1	108	104	99	95
2	98	90	83	77
3	90	79	71	64
4	82	70	61	54
5	75	62	53	46
6	70	56	47	41
7	65	51	42	36
8	60	46	38	32
9	56	43	34	29
10	53	39	31	26

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

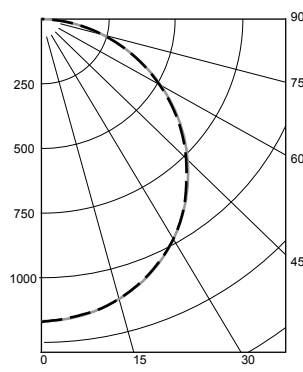
PRODUCER, SYMMETRICAL, 10W 3500K 4FT

Total Watts: 39

Total Lumens: 3,358

Source: 128 White LED's

LTL# 13170267.28



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1480	44.1
0-60	2611	77.7
0-90	3358	100.0
90-180	0	0.0

Luminaire Efficacy = 88.7 lm/w

COEFFICIENTS OF UTILIZATION

RC	70	50	30	10
RW				
RCR				
0	119	119	119	119
1	108	104	99	95
2	98	90	83	77
3	90	79	71	64
4	82	70	61	54
5	75	62	53	46
6	70	56	47	41
7	65	51	42	36
8	60	46	38	32
9	56	43	34	29
10	53	39	31	26

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

PROJECT:

TYPE:

DIMMING COMPATIBILITY:

Amerlux® Producer 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 ---

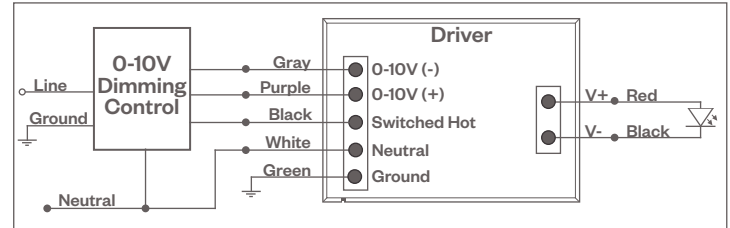
0-10V - DIMMING (Standard)

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:

Diva - DVSTV
Maestro - MS-Z101
Nova-T - NTSTV-DV

Wattstopper:

ADF-120277

Leviton:

Renoir II

Center System

Lutron Grafik 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!

Compatible Dimmers*:

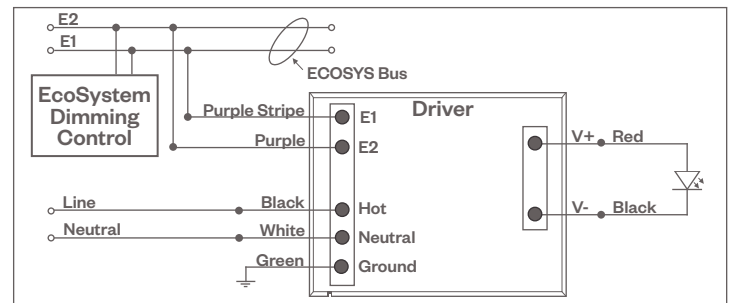
Lutron ECO System

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

Lutron LDE1 (HILUME-H-ECO) EcoSystem Digital Control Wiring Diagram



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*:

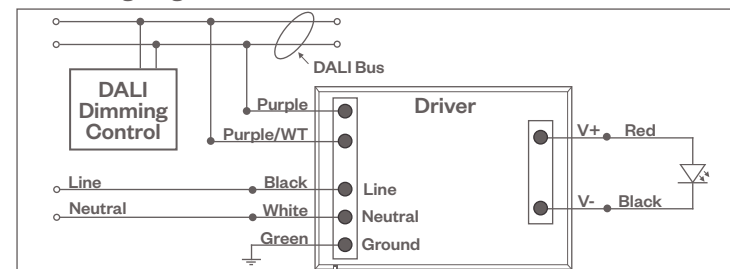
Wall Box

Leviton CD250 Controller

Center System

Dynalite
Fifth Light

DALI Wiring Diagram



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.

PROJECT:

TYPE:

EMERGENCY FIXTURE WITH BUILTIN BATTERY PACK (EMB) WIRING:

Note: EMB not available on lengths under 4'.

