Producer Combo

Linear LED with Track

amerlux
A Delta Group Company

Features

The Producer-Combo is a linear LED pendant with track sections. At 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 4'/6'/8' (standard) lengths, the Producer-Combo offers various color temperatures, an optional 20% uplight component, as well as 0-10V dimming. The Producer-Combo is an ideal choice for aisle or general lighting with the need for accent 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 (10W, 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

(shown with Amerlux SPEQ-S track head, sold separately)

PROJECT:

TYPE:

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

Performance Chart

Wattage Per Foot	Delivered Lumens	LPW	Color Temp - CRI
5	2508	125.4	3500K-83
10	5016	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' System Watts	4' Amps	8' System Watts	8' Amps
5	120V	22.3	0.18	41.9	0.35
5	277V	22.9	0.09	41.6	0.16
10	120V	42.1	0.35	84.2	0.70
10	277V	41.5	0.15	83.0	0.30

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

CSA C us

5 year limited warranty
AMERLUX LED

Producer Combo

Linear LED with Track

PROJECT: **TYPE:**

Ordering Information

PROD-COMBO . _____ . _____ . _____ . ___ . ___ . ___ . _____ . _____ . ____ . _____ . ___

1   **2**   **3**   **4**   **5** **6** **7**   **8**   **9**   **10**   **11**   **12**

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1 Model
PROD-COMBO

2 Direct Optics
_____ x _____
(Total Feet of Optic)	(Optic)
# of Feet	**BAT60** - batwing 60°
	BAT80 - batwing 80°
	DL - designer lens

3 Track
_____ x _____
(Total Feet of Track)	(Track)
# of Feet	**1CT** - Contech track, 1 circuit

2' minimum track section

4 Mounting
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

5 Wattage (per foot)
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

6 Color Temp
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
120/277

9 Length
_____
(Total = #2 + #3)

10 Configuration
IND - individual lengths, 4', 6' or 8' lengths
CON - continuous run, greater than 8'

11 Drivers
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

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

Producer Combo
Linear LED with Track

PROJECT: **TYPE:**

Specifications

Application

Pendant direct symmetric or batwing lens distrobution for aisle, shelving or general ambient lighting. Optional 20% uplight component adds a feeling of volume to the space. Track sections also available to incorporate Accent lighting for highlighting display areas.

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. Dual Wire Way wiring chasis.
1 circuit Contech track. (Track Heads sold separately)

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 - 60º batwing distribution for wide light distribution.
BAT80 - 80º batwing distribution for very wide light distribution.
Optional:
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

LED = Line 1, Track = Line 2
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 - power feed
2PF - two power feeds, one for LED section and one for track section
EMB - Emergency battery pack

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.

Mounting

Intended to be pendant mounted Individual fixtures or in continuous rows.
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.

Certifications

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

Warranty

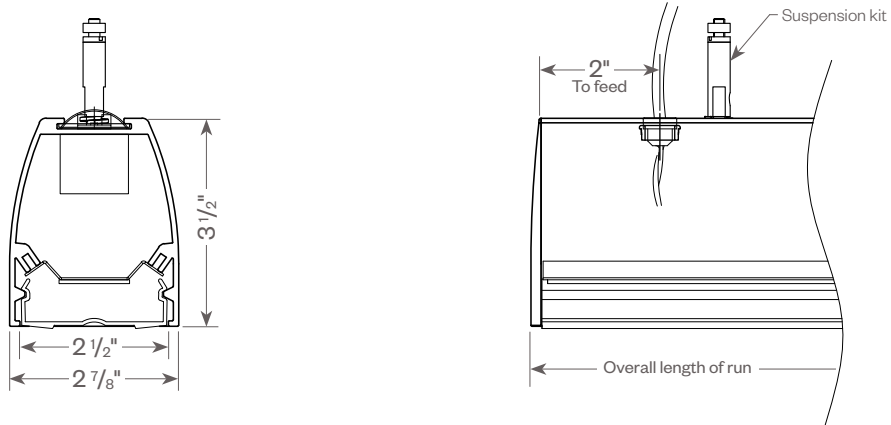Amerlux's 5 year limited warranty. Please consult Amerlux website for details.
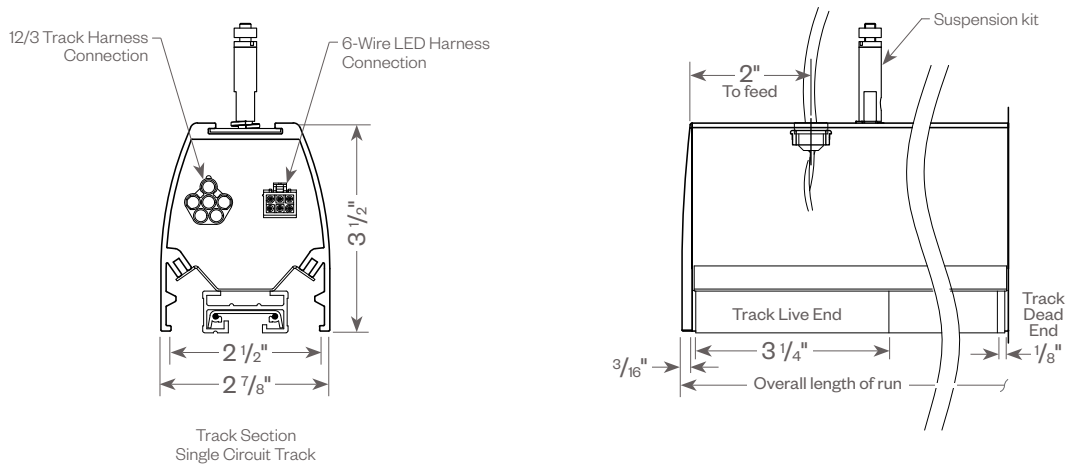
Producer Combo

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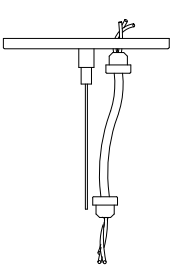**PROJECT:**   **TYPE:**

PRODUCER

3 1/2"

2 1/2"
2 7/8"

Suspension kit

2"
To feed

Overall length of run

PRODUCER WITH TRACK

12/3 Track Harness Connection

6-Wire LED Harness Connection

3 1/2"

2 1/2"
2 7/8"

Track Section
Single Circuit Track

Suspension kit

2"
To feed

Track Live End

Track Dead End

3/16"

3 1/4"

1/8"

Overall length of run

SUSPENSION
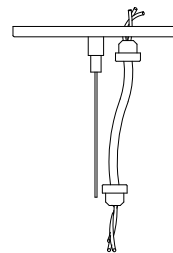

Blocking by G.C.
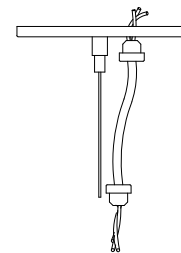(for direct fastening of griplock)

LED Power Feed Canopy
(Circuit A with 2LE Option)
A/C Cable with 18/6 Cord
White Canopy 5" dia.
Length: ASW5 - 5' length
        ASW10 - 10' length
        ASW20 - 20' length
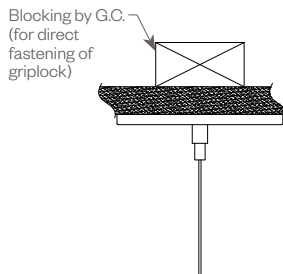
NON-Feed Suspension Point
A/C Cable
White Canopy 5" dia.
Length: ASW5 - 5' length
        ASW10 - 10' length
        ASW20 - 20' length

Track Power Feed Canopy
A/C Cable with 12/3 Cord
White Canopy 5" dia.
Length: ASW5 - 5' length
        ASW10 - 10' length
        ASW20 - 20' length

Circuit B Power Feed Canopy
A/C Cable with 18/6 Cord
White Canopy 5" dia.
Length: ASW5 - 5' length
        ASW10 - 10' length
        ASW20 - 20' length
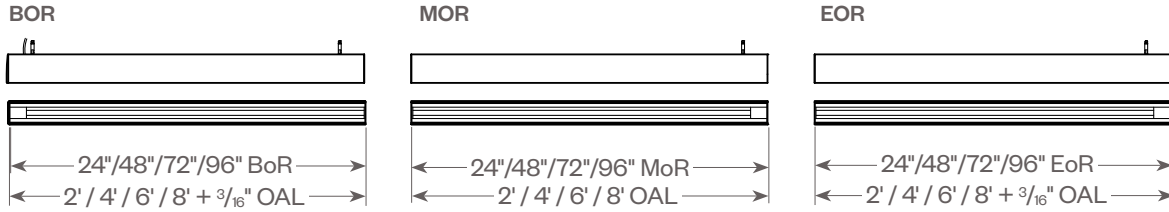**Note: Each fixture on Circuit B to have its own feed.**

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

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PROJECT: **TYPE:**

PRODUCER-TRACK SECTIONS

BOR

24"/48"/72"/96" BoR
2' / 4' / 6' / 8' + 3/16" OAL

MOR

24"/48"/72"/96" MoR
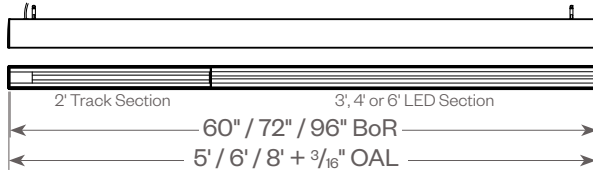2' / 4' / 6' / 8' OAL

EOR

24"/48"/72"/96" EoR
2' / 4' / 6' / 8' + 3/16" OAL

EXAMPLE ROW LAYOUTS (SHOWN WITH 2' TRACK SECTION)

5', 6' or 8' L BOR or L BOR-PF or 2PF

2' Track Section   3', 4' or 6' LED Section
60" / 72" / 96" BoR
5' / 6' / 8' + 3/16" OAL
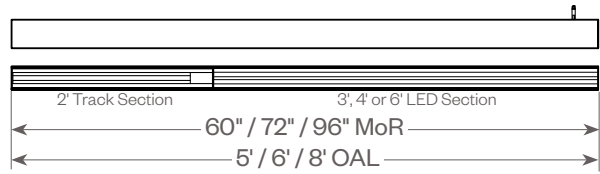
5', 6' or 8' R BOR or R BOR-PF or 2PF

3', 4' or 6' LED Section   2' Track Section
60" / 72" / 96" BoR
5' / 6' / 8' + 3/16" OAL

4', 6' or 8' BOR or BOR-PF

4', 6' or 8' LED Section
48" / 72" / 96" BoR
4' / 6' / 8' + 3/16" OAL

5', 6' or 8' L EOR or L EOR-PF
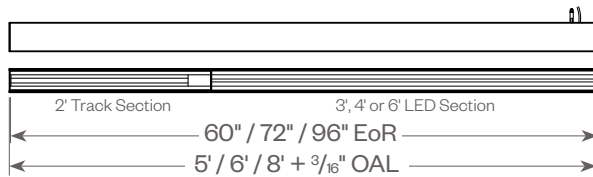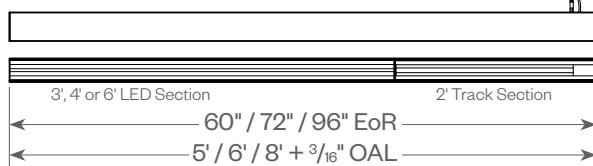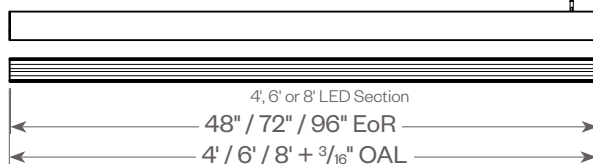
2' Track Section   3', 4' or 6' LED Section
60" / 72" / 96" EoR
5' / 6' / 8' + 3/16" OAL

5', 6' or 8' R EOR or R EOR-PF

3', 4' or 6' LED Section   2' Track Section
60" / 72" / 96" EoR
5' / 6' / 8' + 3/16" OAL

4', 6' or 8' EOR or EOR-PF

4', 6' or 8' LED Section
48" / 72" / 96" EoR
4' / 6' / 8' + 3/16" OAL

5', 6' or 8' L MOR or L MOR-PF

2' Track Section   3', 4' or 6' LED Section
60" / 72" / 96" MoR
5' / 6' / 8' OAL

5', 6' or 8' R MOR or R MOR-PF or 2PF

3', 4' or 6' LED Section   2' Track Section
60" / 72" / 96" MoR
5' / 6' / 8' OAL

4', 6' or 8' MOR or MOR-PF

4', 6' or 8' LED Section
48" / 72" / 96" MoR
4' / 6' / 8' OAL

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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
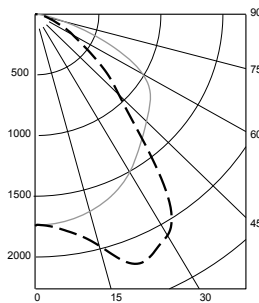
ZONAL LUMEN SUMMARY

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		80		
RW	70	50	30	10
RCR				
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 deliered 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
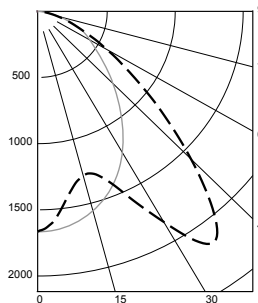
ZONAL LUMEN SUMMARY

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		80		
RW	70	50	30	10
RCR				
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 deliered 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
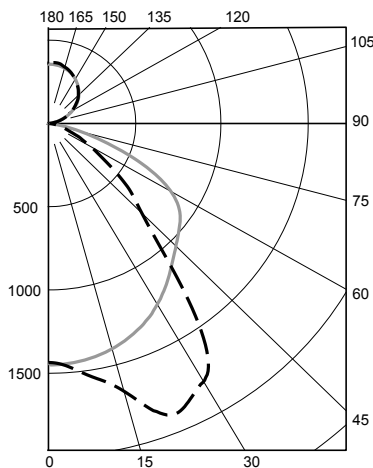
ZONAL LUMEN SUMMARY

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		80		
RW	70	50	30	10
RCR				
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 deliered to the task surface.

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PROJECT: **TYPE:**

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

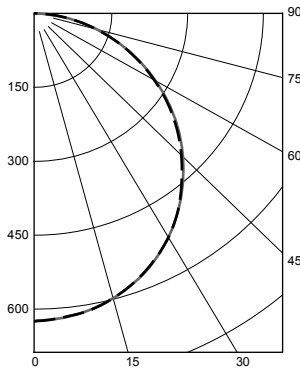**MULTIPLYING FACTORS:** (Multiplying Factor is based on 3500K-83 120V IES file on website)

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		80		
RW	70	50	30	10
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
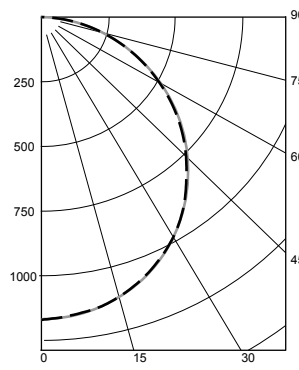
ZONAL LUMEN SUMMARY

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		80		
RW	70	50	30	10
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.

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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 ---
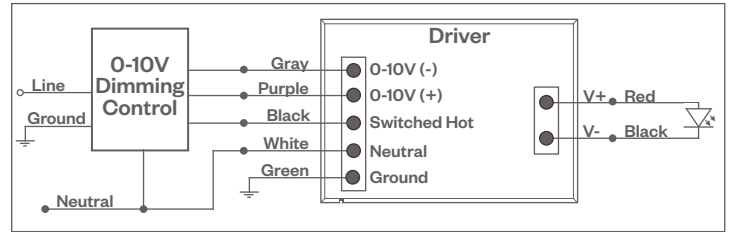
0-10V - DIMMING (Standard)
Integrates into a variety of building management and daylighting controls

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

Center System
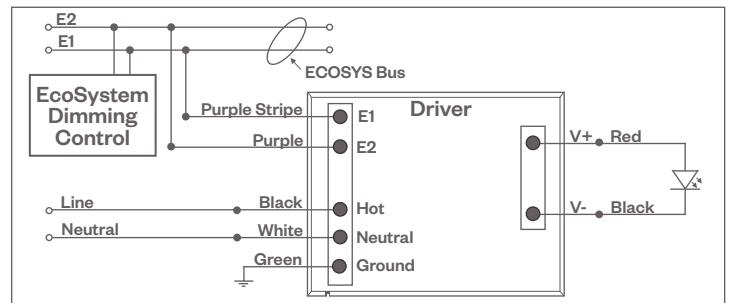Lutron Grafixk Eye with GRX-TV1 Interface

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
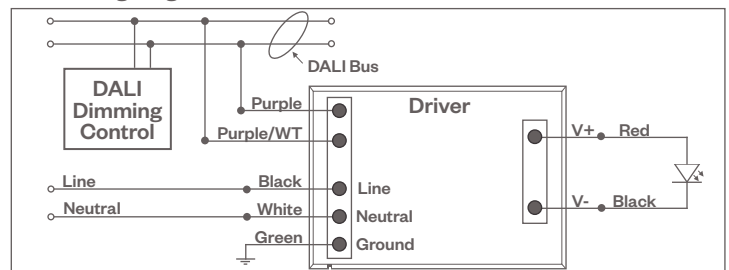Lutron EcoSystem compatible controls

DALI - DALI DIMMING 120V-277V
Digital control protocol allows individual fixture control

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

DALI Wiring Diagram

Compatible Dimmers†:

Wall Box
Leviton CD250 Controller

Center System
Dynalite
Fifth Light

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.