

AisleFX®

2" Linear Aisle Pendant



PROJECT:

TYPE:

Features

Amerlux's AisleFX® is a linear pendant designed to provide highly-efficient, uniformly illuminating and comfortable lighting to shelves in supermarket or retail applications. A market-leading efficacy of up to 145 lm/W leads to significant energy savings resulting in both long-term cost savings and a green lighting solution. The unique distribution optics achieve the high vertical illumination necessary to effectively and evenly light shelving from top to bottom. The optics are designed to maximize light on the shelves while still providing ample light on the floor, enticing shoppers to step into the aisles and keeping their attention on the merchandise on the shelves. The fixture is designed to have the lens regress into the housing which reduces glare to create a visually comfortable environment for shoppers.



Product Overview

Type: Linear Aisle Pendant
 Wattage: 5W/ft, 10W/ft (or specify wattage between 3W/ft and 10W/ft)
 Color Temp: 2700K*, 3000K, 3500K, 4000K (* 90+ CRI only)
 CRI: 80+ typ. or 90+ typ.
 Dimming: 0-10V, 1% Dim, 120/277VAC

Certifications



Fixture Summary

Performance Data

Lens	Wattage per Foot	Delivered Lumens	LPW	Color Temp	CRI
DA	5	3033	145.2	3500K	80+
DA	10	5807	138.4	3500K	80+
NDA	5	3083	147.5	3500K	80+
NDA	10	5938	141.1	3500K	80+
ASY	5	3017	144.6	3500K	80+
ASY	10	5787	137.8	3500K	80+
FL	5	2981	142.7	3500K	80+
FL	10	5666	135	3500K	80+

Data is based on 4' fixture, 3500K-80 120V IES files available on website.

Runs

Individual Runs: 4' or 8' lengths.
 Continuous Runs: > 8' (specify in 4' increments).
 * Increments of 4' equals 47.5" increase in actual length (refer to length table on pg 4).

Electrical Data

Wattage per Foot	Voltage	4'		8'	
		System Watts	Amps	System Watts	Amps
5	120V	20.9	0.18	41.8	0.36
	277V	20.5	0.07	40.1	0.15
10	120V	42	0.35	84	0.70
	277V	40	0.15	79	0.29

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

PROJECT:

TYPE:

Ordering Information

AFX-D			120/277				0-10V			
1	2	3	4	5	6	7	8	9	10	11
1	Model	2	Optics	3	Mounting			4	Wattage (per foot)	
	AFX-D		DA double asymmetric NDA narrow double asymmetric ASY asymmetric FL flood		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'				Standard	Optional
									5 5W/ft 10 10W/ft	3 3W/ft 4 4W/ft 6 6W/ft 7 7W/ft 8 8W/ft 9 9W/ft
5	Color Temp-CRI		6	Finish		7	Voltage	8	Length	
	83 CRI 30 3000K-83 35 3500K-83 40 4000K-83		90+ CRI 279 2700K-90+ 309 3000K-90+ 359 3500K-90+ 409 4000K-90+		HW high reflectance matte white BT black texture ST silver texture For other RAL color, consult factory		120/277V		_____ ft (specify in 4' increments)* * Increments of 4' equals to 47.5" increase in actual length (refer to length table pg4).	
9	Configuration			10	Drivers/Controls		11	Options/Accessories		
	IND individual fixture, 4' or 8' lengths CON continuous run > than 8', in 4' increments* * Increments of 4' equals to 47.5" increase in actual length (refer to length table pg4).			0-10V 0-10V electronic dimming, 1%, multi-volt, 120-277VAC constant current driver		EMC-PF ¹ emergency circuit requires power feed located in last fixture section (for other locations consult factory) PF ¹ - Extra power feed for additional circuiting EMB - emergency battery pack ¹ Not available with IND (individual) configuration				



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Specifications

Construction

Extruded aluminum housing and reflector.
Die-cast end caps match fixture body finish.
Weight: 2.5 lbs/ft (may vary based on configurations and accessories)

Optical

All lenses are snap-in, extruded acrylic, with a maximum length of 4'. Lens is regressed into the housing for visual comfort.
DA - Double Asymmetric distribution. Provides uniform illumination for shelves on both sides of the aisle, when fixture is mounted along the center of the aisle.
Application Guide: Recommended for 9' - 12' mounting height, when used in applications with 6'-7' wide aisles and 6'-7' tall shelves.
NDA - Narrow Double Asymmetric distribution. Used for higher mounting heights in comparison to the DA lens. Provides uniform illumination for shelves on both sides of the aisle, when fixture is mounted along the center of the aisle.
Application Guide: Recommended for 12' - 16' mounting heights, when used in applications with 6'-7' wide aisles and 6'-7' tall shelves.
ASY - Asymmetric distribution providing illumination on one side.
FL - Wide Flood distribution for general or ambient lighting.

LED

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: 80+, 90+
R9: 16 @ CRI 83; R9: >50 @ CRI 92
Life: 50,000+ hr., > 70% of initial lumens (L70)
*** Available in 90+ CRI only**

Electrical

Wiring: Individual and "Beginning of Run" (BOR) fixtures are pre-wired 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. 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 4' or 8'. These are stand alone fixtures with matching End Caps, supplied with the mounting hardware.
CON - Continuous runs, > 8' in 4' increments (*Increments of 4' equals to 47.5" increase in actual length, refer to length table pg4*). 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.

Mounting

AisleFX® is intended for pendant mounting.
Pendant Mount-ASWxx - Direct pendant mounted in center of ceiling tile or gypsum board ceiling (*standard*) i.e. ASWxx. Or if canopy is installed on a grid Tee runner add, **T** i.e. ASWxxT.
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. ASWxx. Or if canopy is installed on a grid Tee runner add, **T** i.e. ASWxxT.

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

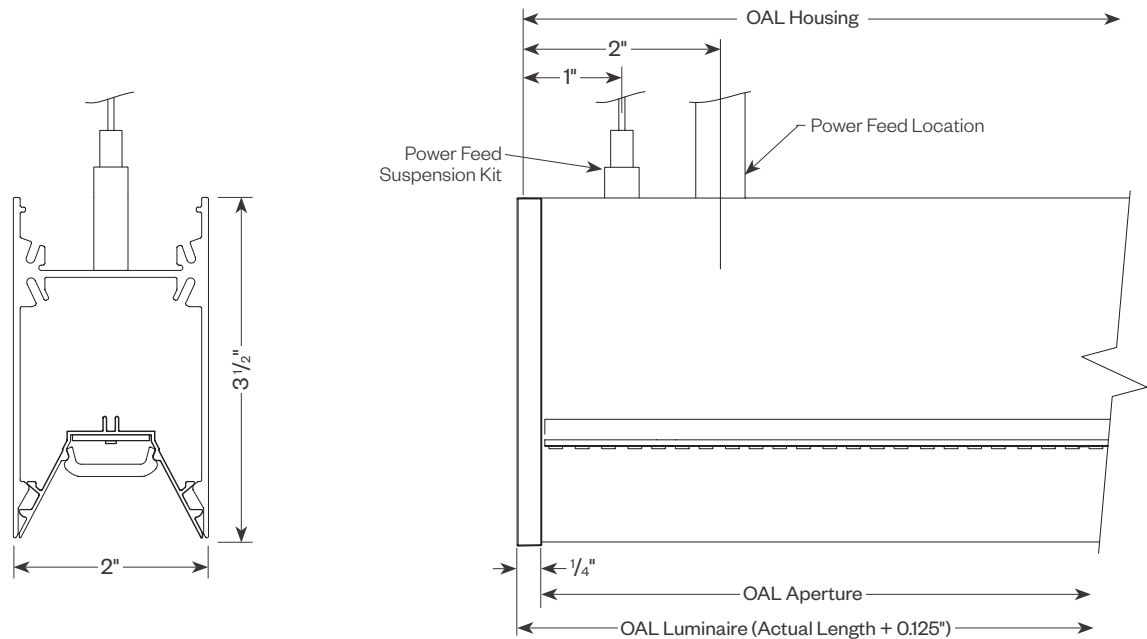
Warranty

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

PROJECT:

TYPE:

Product Details

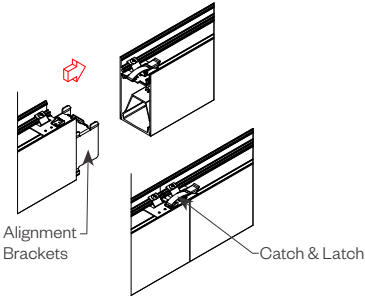


Length Table

Ordered Length	Actual Length (ft-in)	Ordered Length	Actual Length (ft-in)
4'	3' - 11.5"	64'	63' - 4"
8'	7' - 11"	68'	67' - 3.5"
12'	11' - 10.5"	72'	71' - 3"
16'	15' - 10"	76'	75' - 2.5"
20'	19' - 9.5"	80'	79' - 2"
24'	23' - 9"	84'	83' - 1.5"
28'	27' - 8.5"	88'	87' - 1"
32'	31' - 8"	92'	91' - 0.5"
36'	35' - 7.5"	96'	95' - 0"
40'	39' - 7"	100'	98' - 11.5"
44'	43' - 6.5"	104'	102' - 11"
48'	47' - 6"	108'	106' - 10.5"
52'	51' - 5.5"	112'	110' - 10"
56'	55' - 5"	116'	114' - 9.5"
60'	59' - 4.5"	120'	118' - 9"

Tool-less Joining

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



AisleFX®

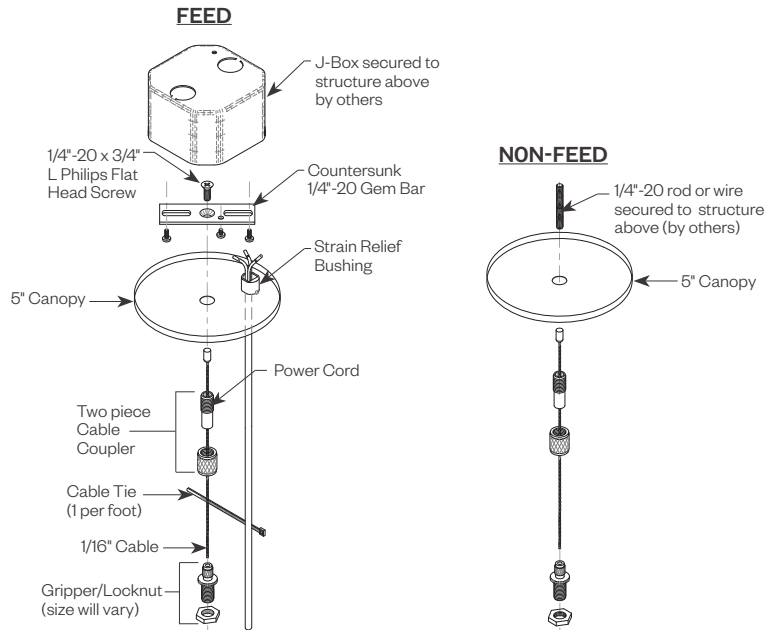
2" Linear Aisle Pendant



PROJECT:

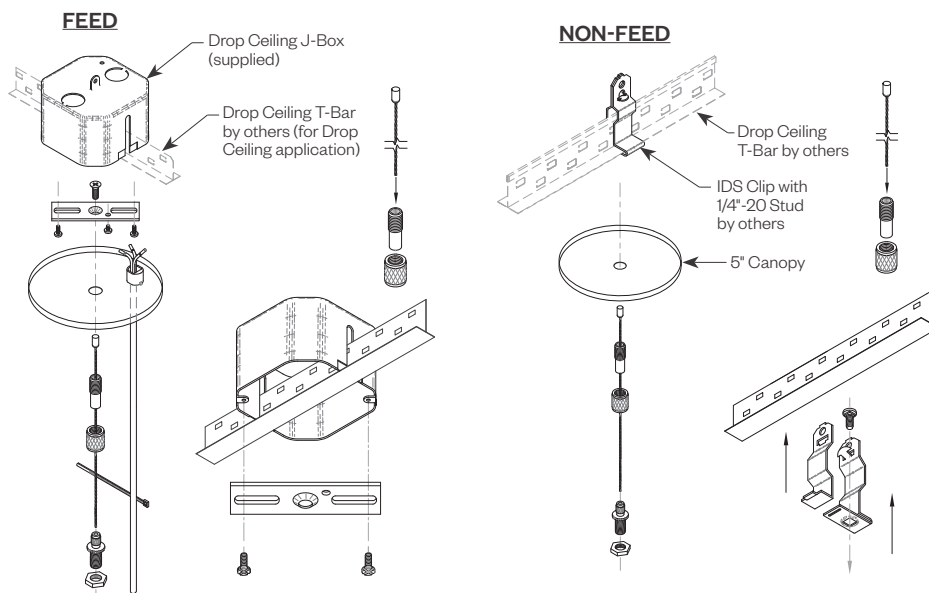
TYPE:

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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PROJECT:

TYPE:

Performance Data

Multiplying Factors: (Multiplying Factor is based on 3500K-80 120V IES file on website)

Wattage:	3W	4W	5W	6W	7W	8W	9W	10W
Factor:	0.30	0.39	0.50	0.61	0.71	0.81	0.91	1.0

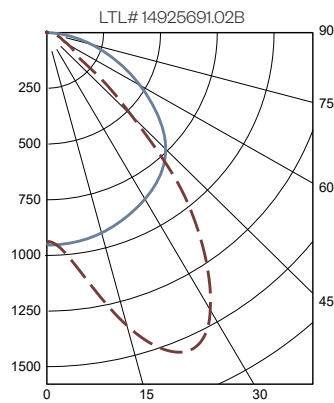
CCT:	3000K-80	3500K-80	4000K-80	2700K-90	3000K-90	3500K-90	4000K-90
Factor:	0.97	1.0	1.02	0.90	0.92	0.92	0.94

AISLEFX DOUBLE ASYMMETRIC LENS 5W 3500K 4FT

Total Watts: 20

Total Lumens: 3033

Source: 192 White LED's



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1755	57.9
0-60	2741	90.4
0-90	3034	100.0
90-180	0	0.0

Efficacy (lumens/watt) = 145.2 lm/W

COEFFICIENTS OF UTILIZATION

RC	80			
RW	70	50	30	10
RCR				
0	119	119	119	119
1	111	107	103	100
2	102	95	89	84
3	94	85	78	72
4	87	76	68	62
5	80	69	61	55
6	74	62	54	48
7	69	57	49	43
8	65	52	44	38
9	60	48	40	35
10	56	44	36	31

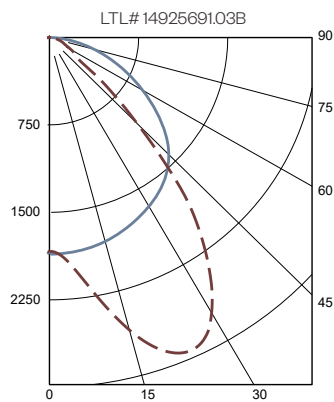
Note: Values expressed as % of total lumen output delivered to the task surface.

AISLEFX DOUBLE ASYMMETRIC LENS 10W 3500K 4FT

Total Watts: 42

Total Lumens: 5807

Source: 192 White LED's



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	3352	57.7
0-60	5242	90.3
0-90	5807	100.0
90-180	0	0.0

Efficacy (lumens/watt) = 138.4 lm/W

COEFFICIENTS OF UTILIZATION

RC	80			
RW	70	50	30	10
RCR				
0	119	119	119	119
1	111	107	103	100
2	102	95	89	84
3	94	85	78	72
4	87	76	68	62
5	80	69	61	55
6	75	62	54	48
7	69	57	49	43
8	65	52	44	38
9	60	48	40	35
10	56	44	36	31

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

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PROJECT:

TYPE:

Performance Data

Multiplying Factors: (Multiplying Factor is based on 3500K-80 120V IES file on website)

Wattage:	3W	4W	5W	6W	7W	8W	9W	10W
Factor:	0.30	0.39	0.50	0.61	0.71	0.81	0.91	1.0

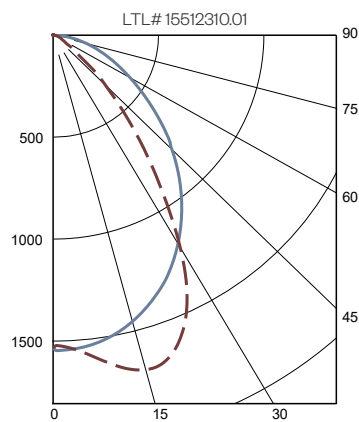
CCT:	3000K-80	3500K-80	4000K-80	2700K-90	3000K-90	3500K-90	4000K-90
Factor:	0.97	1.0	1.02	0.90	0.92	0.92	0.94

AISLEFX NARROW DOUBLE ASYMMETRIC LENS 5W 3500K 4FT

Total Watts: 21

Total Lumens: 3083

Source: 192 White LED's



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1978	64.2
0-60	2847	92.3
0-90	3083	100.0
90-180	0	0.0

Efficacy (lumens/watt) = 147.5 lm/W

COEFFICIENTS OF UTILIZATION

RC	80			
RW	70	50	30	10
RCR				
0	119	119	119	119
1	111	108	104	101
2	103	97	91	87
3	96	87	81	75
4	89	79	72	66
5	83	72	64	58
6	77	66	58	52
7	72	60	52	47
8	68	55	48	43
9	63	51	44	39
10	61	48	41	36

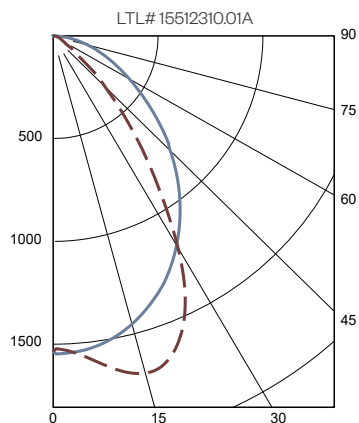
Note: Values expressed as % of total lumen output delivered to the task surface.

AISLEFX NARROW DOUBLE ASYMMETRIC LENS 10W 3500K 4FT

Total Watts: 43

Total Lumens: 5938

Source: 192 White LED's



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	3352	57.7
0-60	5242	90.3
0-90	5938	100.0
90-180	0	0.0

Efficacy (lumens/watt) = 138.4 lm/W

COEFFICIENTS OF UTILIZATION

RC	80			
RW	70	50	30	10
RCR				
0	119	119	119	119
1	111	107	103	100
2	102	95	89	84
3	94	85	78	72
4	87	76	68	62
5	80	69	61	55
6	75	62	54	48
7	69	57	49	43
8	65	52	44	38
9	60	48	40	35
10	56	44	36	31

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

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PROJECT:

TYPE:

Performance Data (continued)

Multiplying Factors: (Multiplying Factor is based on 3500K-80 120V IES file on website)

Wattage:	3W	4W	5W	6W	7W	8W	9W	10W
Factor:	0.30	0.39	0.50	0.61	0.71	0.81	0.91	1.0

CCT:	3000K-80	3500K-80	4000K-80	2700K-90	3000K-90	3500K-90	4000K-90
Factor:	0.97	1.0	1.02	0.90	0.92	0.92	0.94

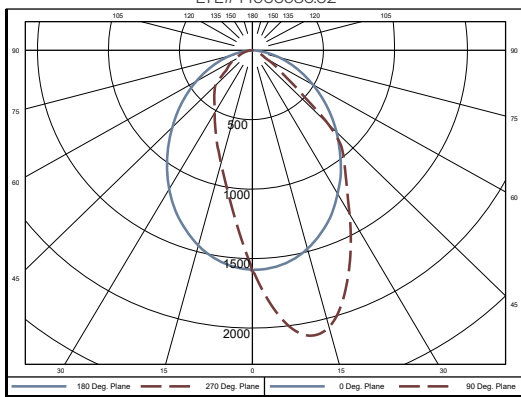
AISLEFX ASYMMETRIC LENS 5W 3500K 4FT

Total Watts: 20

Total Lumens: 3017

Source: 192 White LED's

LTL# 14966986.02



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1759	58.3
0-60	2683	89.3
0-90	3017	100.0
90-180	0	0.0

Efficacy (lumens/watt) = 144.6 lm/W

COEFFICIENTS OF UTILIZATION

RC	80			
RW	70	50	30	10
RCR				
0	119	119	119	119
1	111	107	103	100
2	102	95	90	85
3	94	85	78	73
4	87	77	69	63
5	81	70	62	56
6	75	63	55	50
7	70	58	50	45
8	66	53	46	40
9	62	49	42	37
10	58	46	39	34

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

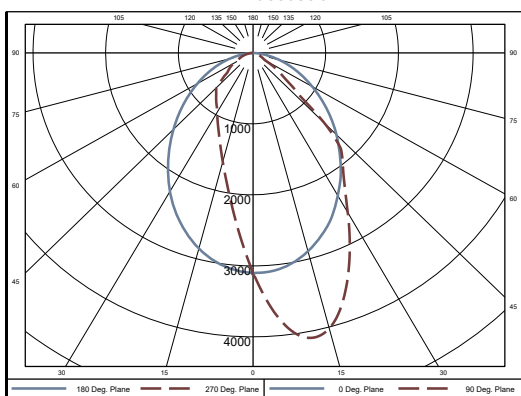
AISLEFX ASYMMETRIC LENS 10W 3500K 4FT

Total Watts: 42

Total Lumens: 5786

Source: 192 White LED's

LTL# 14966986.01



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	3398	58.7
0-60	5172	89.4
0-90	5786	100.0
90-180	0	0.0

Efficacy (lumens/watt) = 137.8 lm/W

COEFFICIENTS OF UTILIZATION

RC	80			
RW	70	50	30	10
RCR				
0	119	119	119	119
1	111	107	103	100
2	102	95	90	85
3	95	86	79	73
4	88	77	69	64
5	81	70	62	56
6	76	64	56	50
7	71	58	50	45
8	66	54	46	41
9	62	50	42	37
10	58	46	39	34

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

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PROJECT:

TYPE:

Performance Data (continued)

Multiplying Factors: (Multiplying Factor is based on 3500K-80 120V IES file on website)

Wattage:	3W	4W	5W	6W	7W	8W	9W	10W
Factor:	0.30	0.39	0.50	0.61	0.71	0.81	0.91	1.0

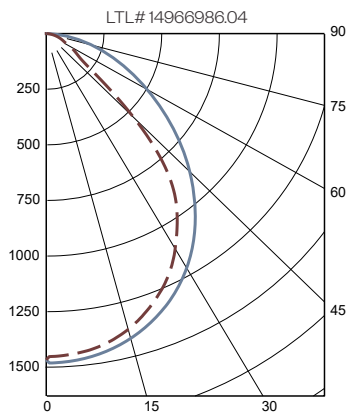
CCT:	3000K-80	3500K-80	4000K-80	2700K-90	3000K-90	3500K-90	4000K-90
Factor:	0.97	1.0	1.02	0.90	0.92	0.92	0.94

AISLEFX FLOOD LENS 5W 3500K 4FT

Total Watts: 20

Total Lumens: 2981

Source: 192 White LED's



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fxt
0-40	1763	59.2
0-60	2677	89.8
0-90	2981	100.0
90-180	0	0.0

Efficacy (lumens/watt) = 142.7 lm/W

COEFFICIENTS OF UTILIZATION

RC	80			
RW	70	50	30	10
ROR				
0	119	119	119	119
1	111	107	103	100
2	102	95	90	85
3	95	86	79	73
4	88	77	69	63
5	81	70	62	56
6	76	64	55	50
7	70	58	50	45
8	66	53	46	40
9	62	49	42	37
10	58	46	39	33

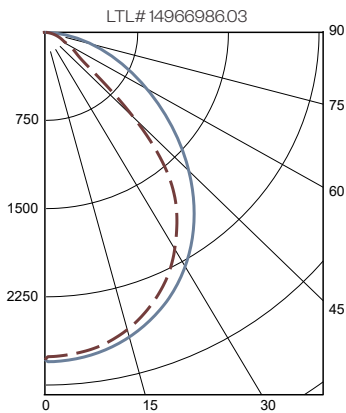
Note: Values expressed as % of total lumen output delivered to the task surface.

AISLEFX FLOOD LENS 10W 3500K 4FT

Total Watts: 42

Total Lumens: 5666

Source: 192 White LED's



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fxt
0-40	3348	59.1
0-60	5087	89.8
0-90	5666	100.0
90-180	0	0.0

Efficacy (lumens/watt) = 135.0 lm/W

COEFFICIENTS OF UTILIZATION

RC	80			
RW	70	50	30	10
ROR				
0	119	119	119	119
1	111	107	103	100
2	102	95	90	85
3	95	86	79	73
4	88	77	69	63
5	81	70	62	56
6	75	63	55	50
7	70	58	50	45
8	66	53	46	40
9	62	49	42	37
10	58	46	38	33

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



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Dimming Compatibility

Amerlux® AisleFX® 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 ---

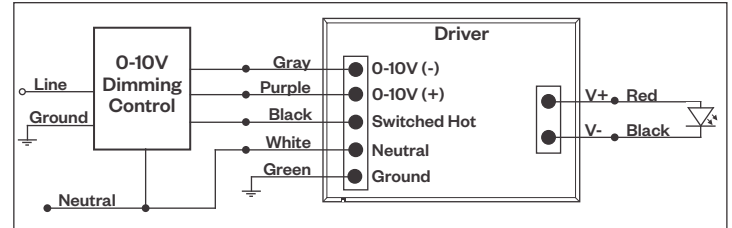
0-10V - DIMMING (Standard)

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!**

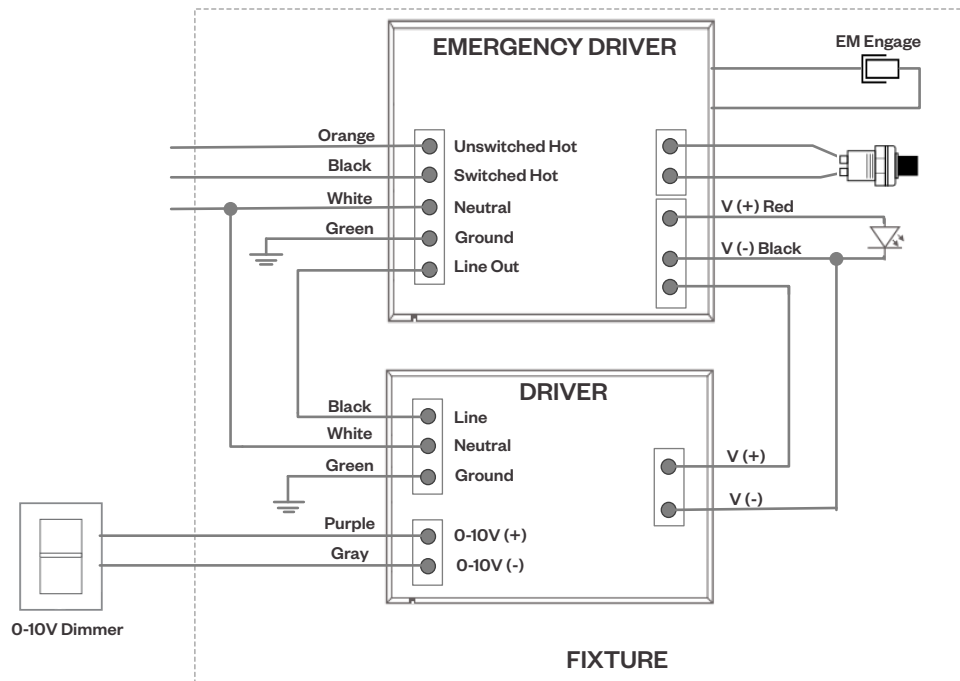
0-10V Wiring Diagram



Compatible Dimmers*:

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

Emergency Fixture with Built-in Battery Pack 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.