

Aerus

Indirect/Direct Linear Pendant

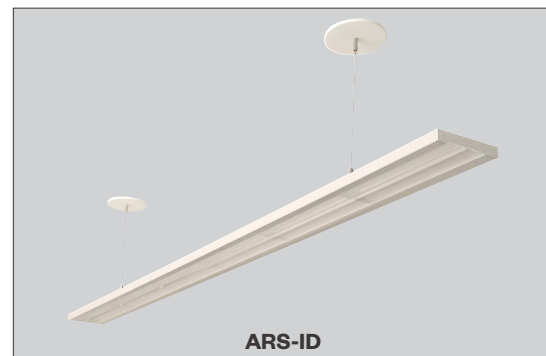


PROJECT:

TYPE:

Features

Aerus was made with people in mind. With direct/indirect illumination and state-of-the-art anidolic optics, the Aerus lighting solution creates an environment for more comfort and productivity in commercial and institutional settings. With an UGR<14 essentially eliminating glare, the thin-profile solution leverages low-voltage, aircraft cable that supplies power to the fixture without a visual power feed. Market leading performance and comfort meets the stringent requirements for DLC Premium listing. Mounting at just 12" below the ceiling and up to 12' on center, Aerus meets the IES recommendations in lighting levels.



Product Overview

Type: Indirect/Direct, Cable Suspended
 Wattage: 5W/ft, 7W/ft, 10W/ft
 Color Temp: 3000K, 3500K, 4000K
 CRI: 90 typ.
 Dimming: 0-10V, 1% dim, 120/277VAC
 Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black, 120/277VAC
 DALI, 1% dim, 120/277VAC

Certifications



Fixture Summary

Performance Data (4' Fixture)

Wattage per Foot	Total Delivered Lumens	Indirect Delivered Lumens	Direct Delivered Lumens	LPW	Color Temp-CRI
5	2491	1808	683	126.2	3500K-90
7	3424	2484	940	125.6	3500K-90
10	4783	3468	1315	123.8	3500K-90

Data is based on 3500K, 90CRI IES files available on website.

Data is based on 4' fixture.

Electrical Data

Wattage per Foot	Voltage	4'		6'		8'	
		System Watts	Amps	System Watts	Amps	System Watts	Amps
5	120V	19.7	0.16	29.5	0.25	39.4	0.33
	277V	19.7	0.07	29.5	0.11	39.4	0.14
10	120V	27.2	0.23	40.8	0.34	54.4	0.45
	277V	27.2	0.10	40.8	0.15	54.4	0.20
10	120V	38.6	0.32	58	0.48	77.2	0.64
	277V	38.6	0.14	58	0.21	77.2	0.28

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

PROJECT:

TYPE:

Ordering Information

ARS-ID				120/277					
1	2	3	4	5	6	7	8		
1	Model			2 Mounting					
	ARS-ID indirect/direct pendant (73% up/27% down)			APW4 - aircraft cable powered, 4', white canopy APB4 - aircraft cable powered, 4', black canopy MASW10 - mini cable, through ceiling tile or gyp board, white, 10', white canopy MASB10 - mini cable, through ceiling tile or gyp board, black, 10', black canopy MASW10T - over ceiling tee, white, 10' MASB10T - over ceiling tee, black, 10'					
3	Wattage (per foot)		4	Color Temp-CRI		5	Finish	6	Voltage
	Standard	Optional		309 3000K-90 359 3500K-90 409* 4000K-90 * Consult factory		HW high reflectance matte white BT black texture ST silver texture For other RAL colors, consult factory.		120/277	
	5 5W/ft	6 6W/ft							
	7 7W/ft	8 8W/ft							
	10* 10W/ft	9 9W/ft							
	* Only available for use with 0-10V driver.								
7	Length			8 Drivers (drivers are remoted in housing above ceiling, access required)					
	4IND 4' individual 6IND 6' individual 8IND 8' individual Note: Joiner clip provided with each fixture for continuous mounting.			O-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 * 9W/ft max, not available for use with 10W/ft ** Limited wattages available depending on fixture length for DALI drivers, consult factory					

PROJECT:

TYPE:

Specifications

Application

Open office, school room, or any indoor space where an even comfort, ambient lighting is desired.

Construction

Extruded aluminium housing with (2) rails joined by die-cast end plates. Each mounting point features die-cast suspension bridge.

Optical

Cast optical acrylic lens, in 12" sections, patent pending. Provides 73% indirect lighting and 27% direct lighting.

LED

Color Temperature Options: 3000K, 3500K, 4000K
CRI: 90 typical
R9: >50 @ CRI 90
Life: 50,000+ hr., > 70% of initial lumens (L70)

Electrical

Wiring: Individual fixtures are prewired with powered aircraft cable and remote driver.

Standard Wattage: 5W/ft, 7W/ft, 10W/ft.

Optional Wattages: 6W, 8W, 9W

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.

Optional Drivers:

HILUME-H-ECO - Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black

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 - Individual fixtures in 4', 6' or 8' lengths. Individual fixtures are supplied with joiner clips used to join fixtures together for continuous look.

Mounting

Powered aircraft cable suspension in 4' or 8' lengths.

2 non-adjustable used per 4', 6' or 8' length.

Joiner clip provided with each fixture for continuous mounting

Certifications

Approved to UL standards for damp locations as tested by CSA

DLC Premium Listed

Intended for indoor use only

Warranty

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

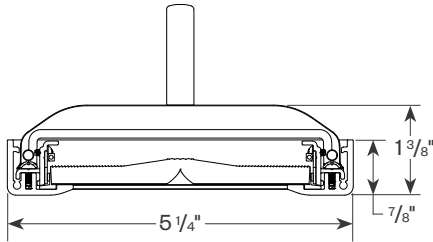
Patent

US Patent No. D964637

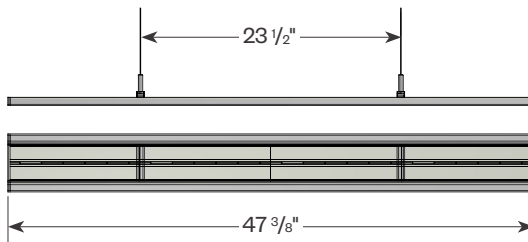
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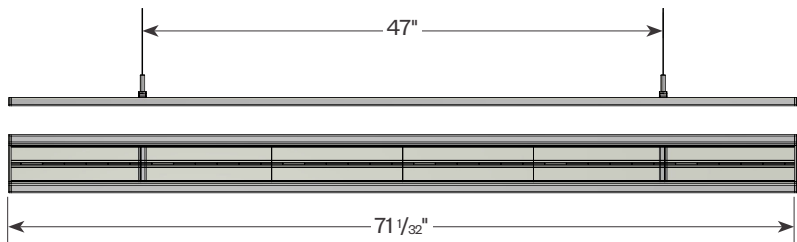
Product Details



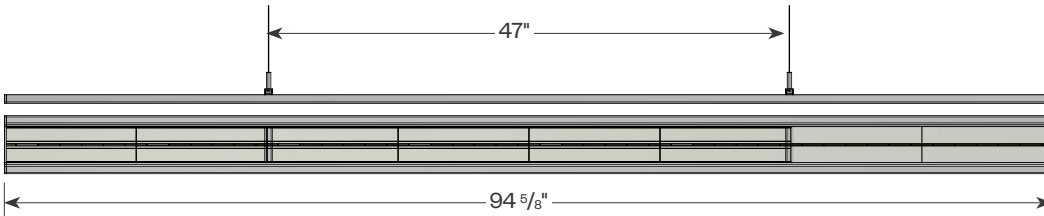
4 FOOT



6 FOOT

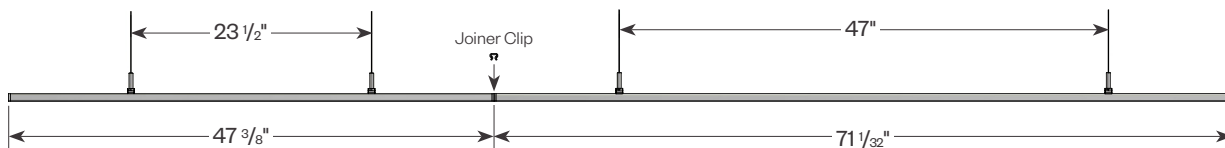
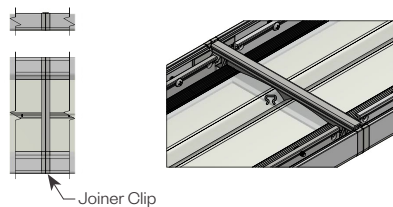


8 FOOT



Joiner Clip

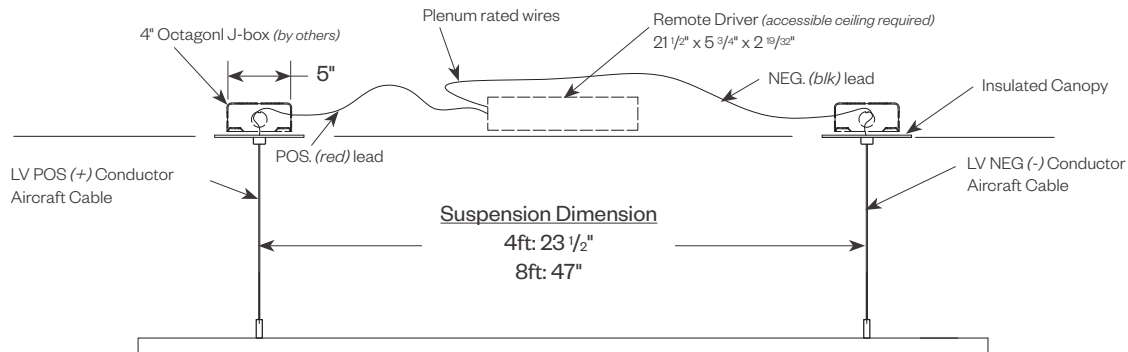
Joiner clip - used to join fixtures together for continuous look, provided with each fixture



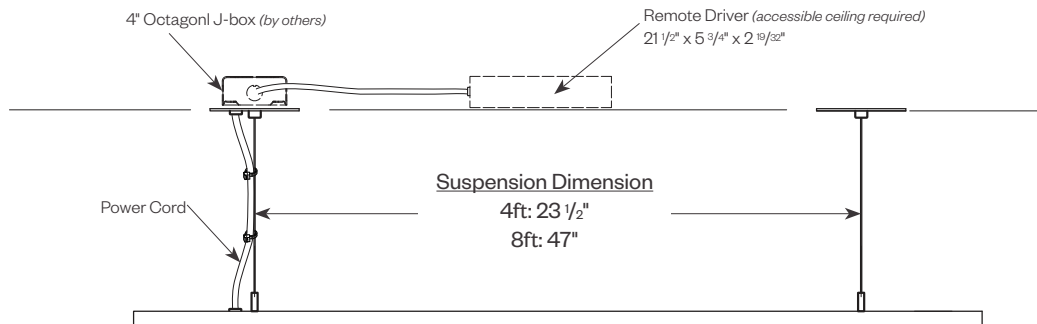
PROJECT:

TYPE:

Aircraft Cable Powered Suspension (APW4/APB4)



Aircraft Cable Suspension with Power Cord (MASW10/MASB10)



PROJECT:

TYPE:

Performance Data

Multiplying Factors: (Multiplying Factor is based on 3500K-90 120V IES file on website)

Wattage:	5W	6W	7W	8W	9W	10W
Factor:	0.56	0.66	0.76	0.85	0.93	1.0

CCT:	3000K-90	3500K-90	4000K-90
Factor:	0.97	1.0	1.3

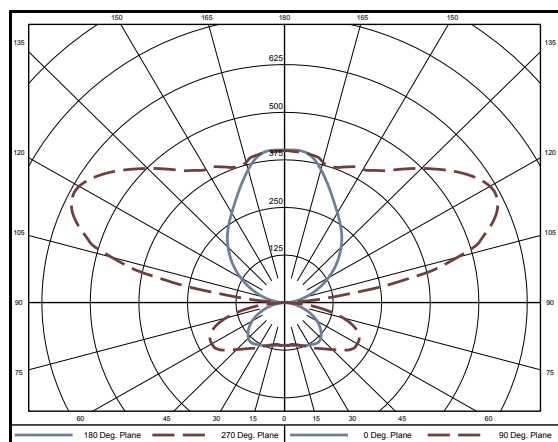
ARS-ID 5W 359 4IND

Total Watts: 20

Total Lumens: 2491

Source: 288 White LED's

LTL# 13106982.01A



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	188	7.6
0-60	436	17.5
0-90	683	27.4
90-180	1808	72.6

Efficacy = 126.2 Lumens / Watt

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	70	50	30	10
RW	70	50	30	10
ROR				
0	102	102	102	102
1	92	87	83	80
2	83	75	69	64
3	75	65	58	52
4	68	57	49	43
5	62	50	42	36
6	57	45	37	31
7	52	40	32	27
8	48	36	28	23
9	45	33	25	20
10	42	30	23	18

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

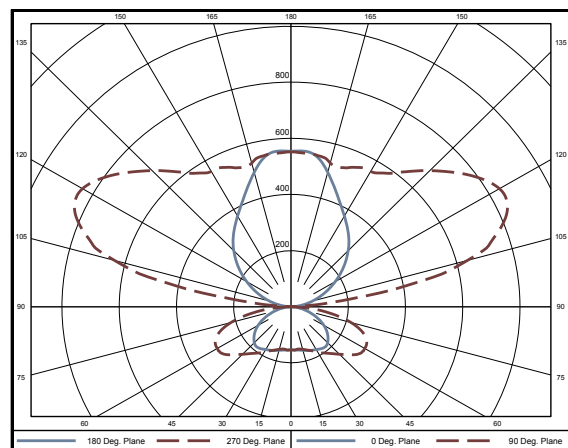
ARS-ID 7W 359 4IND

Total Watts: 27

Total Lumens: 3424

Source: 288 White LED's

LTL# 13106982.02A



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	258	7.5
0-60	599	17.5
0-90	940	27.5
90-180	2484	72.6

Efficacy = 125.6 Lumens / Watt

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	70	50	30	10
RW	70	50	30	10
ROR				
0	102	102	102	102
1	92	87	83	80
2	83	75	69	64
3	75	65	58	52
4	68	57	49	43
5	62	50	42	36
6	57	45	37	31
7	52	40	32	27
8	48	36	28	23
9	45	33	25	20
10	42	30	23	18

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

PROJECT:

TYPE:

Performance Data *(continued)*

Multiplying Factors: *(Multiplying Factor is based on 3500K-90 120V IES file on website)*

Wattage:	5W	6W	7W	8W	9W	10W
Factor:	0.56	0.66	0.76	0.85	0.93	1.0

CCT:	3000K-90	3500K-90	4000K-90
Factor:	0.97	1.0	1.3

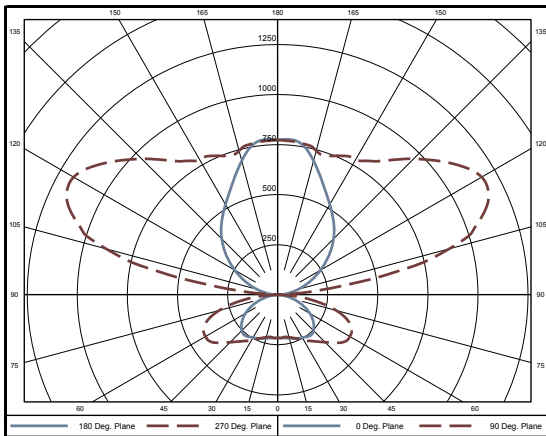
ARS-ID 10W 359 4IND

Total Watts: 39

Total Lumens: 4782

Source: 288 White LED's

LTL# 13106982.03A



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	361	7.6
0-60	838	17.5
0-90	1314	27.5
90-180	3468	72.5

Efficacy = 123.8 Lumens /Watt

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80			
RW	70	50	30	10
RCR				
0	102	102	102	102
1	92	87	83	80
2	83	75	69	64
3	75	65	58	52
4	68	57	49	43
5	62	50	42	36
6	57	45	37	31
7	52	40	32	27
8	48	36	28	23
9	45	33	25	20
10	42	30	23	18

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

ARS-ID 359 4IND

40'x40' ROOM, 9' CEILING, 8' MH

CALCULATION POINTS - 2.5' AFF, 2' SPACING

10W

8' x 8' O.C.

Avg	Max	Min	Avg/Min	Max/Min
55	65	31	2	2

10' x 10' O.C.

Avg	Max	Min	Avg/Min	Max/Min
36	45	19	2	2

12' x 12' O.C.

Avg	Max	Min	Avg/Min	Max/Min
21	33	7	3	5

7W

8' x 8' O.C.

Avg	Max	Min	Avg/Min	Max/Min
39	46	22	2	2

10' x 10' O.C.

Avg	Max	Min	Avg/Min	Max/Min
26	32	14	2	2

12' x 12' O.C.

Avg	Max	Min	Avg/Min	Max/Min
15	23	5	3	5

5W

8' x 8' O.C.

Avg	Max	Min	Avg/Min	Max/Min
29	34	16	2	2

10' x 10' O.C.

Avg	Max	Min	Avg/Min	Max/Min
19	23	10	2	2

12' x 12' O.C.

Avg	Max	Min	Avg/Min	Max/Min
11	17	4	3	4

PROJECT:

TYPE:

Dimming Compatibility

Amerlux® Aerus 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 ---

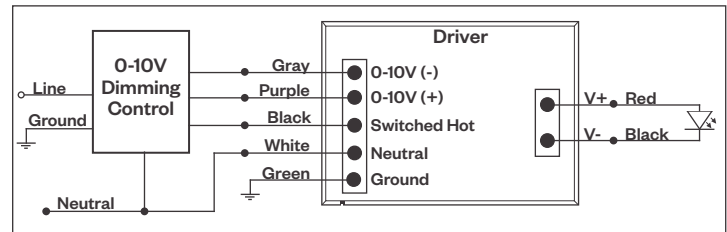
0-10V - DIMMING (Standard)

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			

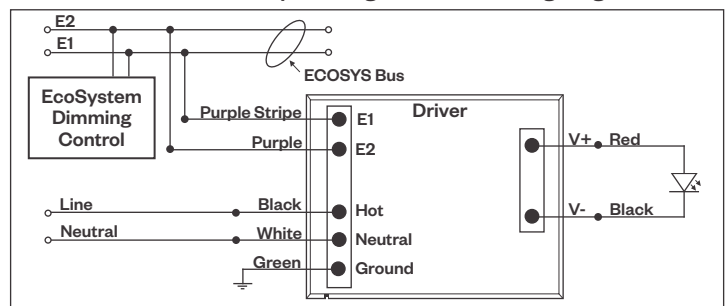
LUTRON LDE1 DIMMING

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!**

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



Compatible Dimmers†:

Lutron ECO System	Central System
Pow Pak Dimming Modules	Lutron EcoSystem compatible controls
Energi Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

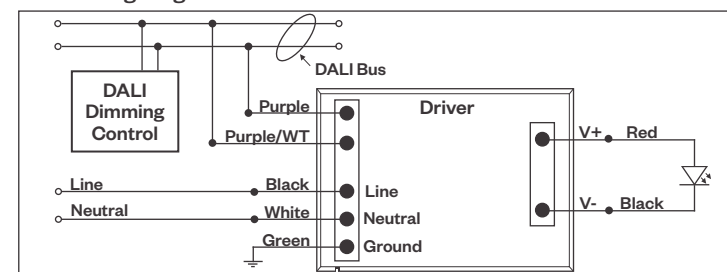
DALI - DALI DIMMING 120V-277V

Digital control protocol allows individual fixture control

Notes:

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

DALI Wiring Diagram



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.