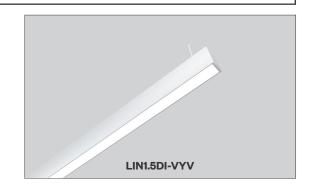




PROJECT: TYPE:

Features

Active CLEAN's™ high-intensity, antimicrobial wavelengths of 405 nanometers protect your business with the most beautiful, comfortable, non-glare illumination. Utilizing Vyv's signature UV-free antimicrobial technology, our spec-grade (Linea or Gruv) family of luminaries provides continuous surface cleaning by creating spaces that are inhospitable for **bacteria**, **fungi**, **yeast**, **mold**, **mildew** and **viruses** to live, on any surface—and in any application—the light touches.



Product Overview

Type: Cable Suspended or Wall Mounted Linear, Direct /Indirect

Wattage: 3W-11W/ft (Direct); 3W-10W/ft (Indirect)

Color Temp: 3000K, 4000K

CRI: 85 typ. (Direct); 83 typ. (Indirect)
Dimming: 0-10V, 1% dimming (standard)

Lutron LDE1 Hi-lume® 1% Dim Soft-On/Fade-to-Black

DALI dimming, 1% dim

Fixture Weight: 9 lbs (4ft fixture)

Certifications







Fixture Summary

Performance Data

	Dire	ect		Indirect				
attage er Foot	0 1 1 1		Wattage per Foot	Delivered Lumens	LPW	Color Temp-CRI		
11	1809	42.3	4000K-85	10	4691	139.7	4000K-83	

Data is based on 4' fixture, 4000K IES files available on website.

Electrical Data

		4'		8'	
Wattage per Foot	Voltage	System Watts	Amps	System Watts	Amps
11	120V	42.3	0.35	85.6	0.71
(Direct)	277V	42.1	0.16	83.9	0.30
10	120V	34.6	0.29	72.1	0.61
(Direct)	277V	34.6	0.13	70.6	0.27
7	120V	26.7	0.22	53.5	0.44
(Direct)	277V	26.8	0.10	53	0.20
5	120V	17.6	0.15	34.6	0.29
(Indirect)	277V	17.9	0.07	34.7	0.13

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

Runs

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

Continuous Runs: Available (whole foot standard).

Custom: Made to measure lengths available (nearest 1/8" of field dimensions).

Requires approval drawings. Added cost & lead time.





PROJECT: TYPE: **Ordering Information** LIN1.5DI-VYV . PL / AW 120/277 8 10 12 1 7 11 Model Optics (select 1 from each list) 3 Mounting Circuiting LIN1.5DI-VYV Pendant Mount (aircraft cable suspension) Wall Mount 1 single circuit **Direct** ASW04 through ceiling tile or gyp board, white, 4'* WM wall mount PL performance lens 2 up/down switch separately ASW10 through ceiling tile or gyp board, white, 10' Indirect BAT batwing uplight (standard) ASW20 through ceiling tile or gyp board, white, 20' ASB04 through ceiling tile or gyp board, black, 4'* UC upper clear lens cover ASB10 through ceiling tile or gyp board, black, 10' ASB20 through ceiling tile or gyp board, black, 20' ASW04T over ceiling tee, white, 4'* ASW10T over ceiling tee, white, 10 ASW20T over ceiling tee, white, 20' ASBO4T over ceiling tee, black, 4'* ASB10T over ceiling tee, black, 10' ASB20T over ceiling tee, black, 20' * 4' (xxx04) is standard length, other lengths are additional charge Voltage Wattage (Direct/Indirect, per foot) Color Temp (Direct/Indirect) Finish (ex. 11/10 - 11W/ft down & 10W/ft up. AW Active CLEAN™ white 120/277 **Direct-Single Mode** Direct available in 3W-11W/ft/Indirect available in AL30 3000K-85CRI, white antimicrobial + light 3W-10W/ft; 3W/ft & 4W/ft require 4' min. lenght) AL40 4000K-85CRI, white antimicrobial + light Indirect 30 3000K-83CRI 40 4000K-83CRI Length 11 **Drivers** Configuration OFF-0-10V 1% electronic dim to off, multi-volt, IND1 individual fixture, 2' to 8' in 1' increments 120-277VAC, constant current driver (standard) CON continuous run > than 8', specify to nearest foot HILUME-H-ECO Lutron LDE1 Hi-lume® 1% dim Soft-On/Fade-to-Black CUS custom made to measure, ± 1/8" of customer supplied field dimensions DALI DALI dimming, 120-277VAC, 1% dim Note: Review wiring diagrams on pages 7-8 for controls requirements 12 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 6')

† An additional **PF** needs to be ordered for all 2-circuit DI fixtures ordered with an **EMB**.

² Not available with IND (individual) configuration.



¹ Lengths less than 4' may have restrictions based upon wattage, lengths, drivers or other options.

Linear Direct/Indirect with Vyv Antimicrobial Light



PROJECT: TYPE:

Specifications

Application

Commercial, Education and Healthcare ambient lighting that can be customized with made to measure lengths.

ActiveCLEAN™ fixtures may be sold in all areas of the United States. Certain states/countries require additional state approvals which are currently in process. For the following, please contact Amerlux for all projects to confirm exact timing for approval: Colorado, Indiana, Hawaii, New Mexico, Oklahoma, Wyoming, Washington DC and Canada. These restrictions are subject to change at any time and will be updated periodically as additional approvals are completed.

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

<u>Direct:</u> All lenses are snap-in, extruded acrylic, with a maximum length of 8'. Fixtures shipped with lenses installed. Amerlux's proprietary acrylic lens provides excellent transmission while effectively concealing source image.

 $\ensuremath{\text{PL}}$ - Performance Lens provides high efficiency with greater lens surface brightness.

Indirect: Extruded acrylic lens with a maximum length of 8'.

BAT - Batwing uplight lens spreads light directly above fixture. 18" minimum distance between ceiling plane and top of fixture suggested.

UC - Upper Clear lens cover.

LED

Internal LED boards powered by Vyv's patented single-diode technology meets international standards for continuous and unrestricted use around people. Vyv stops the growth of and kills* viruses, bacteria, fungi, yeast, mold and mildrew with visible light

*Testing on a non-enveloped virus (MS2 bacteriophage) showed a 99.985% reduction in controlled laboratory testing in 6 hours on hard surfaces. MRSA and E. coli showed 90%+ reduction in controlled laboratory testing in 24 hours on hard surfaces. Results may vary depending on the amount of light that is reaching the surfaces in the space where the product is installed and the length of time of exposure. Use of Vyv antimicrobial light is not intended to replace manual cleaning. Amerlux's boards (indirect light only) 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. Due to differences in the indirect and direct LED manufacturers, some color differences might be noticeable when fixture is within 6" from the wall.

Antimicrobial+Light mode (AL__) provides continuous antimicrobial protection, combined with white light

Direct Indirect

ORI: 85 typical 83 typical

R9: 10 typical 16 typical

Binning: 4-step 3-step

Life: 36,000 hr. 50,000 hr. (>70% of initial lumens (L70))

How to use: To achieve the recommended amount of antimicrobial protection, it is recommended that a photometric layout is conducted on your space. The light level coming from the ActiveClean fixtures should be a minimum of 500 Lux (465 FC). Any indirect light from an ActiveClean fixture or ambient light from nearby fixtures should not be used in the 500 Lux (465 FC) calculation. All ActiveClean fixtures should be used in conjunction with standard cleaning practices.

Electrica

Wiring: Individual and "Beginning of Run" (BOR) fixtures are prewired with power cord. All configurations have quick connect power harnesses for row connections.

1 - single circuit

2- up/down switch separately

Wattage: 3W-11W/ft (Direct); 3W-10W/ft (Indirect); (Note: 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 damage is not covered under warranty.

ENLS - Enlighted Sensor (0-10V driver only, not available in 2' & 3' lengths, and can only be used on one circuit)

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

AW - ActiveCLEAN TM white powder coat paint with anti-microbial coating. Baked on finish for maximum durability and color stability.

Configurations/Lengths

IND Individuals are stand alone fixtures made of single lengths of 2' to 8' (in 1' increments). They are supplied with matching painted End Caps and the required mounting hardware. Lengths less than 4' may have restrictions based upon wattage, lengths, drivers or other options.

CON - Continuous runs are longer than 8', specified to the nearest whole foot. Continuous runs less than 16' are made of 2 lengths. Continuous runs longer than 16' start with a 8' Beginning of Row (*BoR*) wired with a power feed and fitted with an End Cap. The majority of the runs are made up of 8' Middle of Run (*MoR*) lengths. End of Run (*EoR*) units are made up of 2' to 8' units to the nearest whole foot or a combination of a last 4' MoR and a 5', 6' or 7' EoR. Runs longer than 60' may require a second power feed. Factory installed pins and splines simplify fixture alignment. Lengths are quickly joined with "catch and latch" mechanisms or screws and sturdy brackets. Quick connectors simplify field wiring.

CUS - Custom made to measure runs are made to nearest 1/8" of customer supplied field measurements. They can be a single custom length or runs configured as described above only EoR's are 2' to 8' cut to the nearest 1/8" exact length or a combination of a last 4' MoR with an EoR cut to exact length to the nearest 1/8".

Mounting

The Linea 1.5 Direct/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.

LIN1.5DI-VYV....ASW10 - Direct/Indirect 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 supplied with cable gripper and 5"x.250" steel die formed canopy. All components are protected against rust and corrosion. Power feeds are 16 gauge 3 or 5 conductor SJT cord supplies in same color as canopy. Amerlux supplies the required feed and non-feed suspension kits based upon length, electrical options and customer requirements. Suspension kit options include: color, length and mounting condition.

Please note: 1 Circuit is standard, the direct & indirect are on the same circuit.
2 Circuits, direct & indirect switched separately with power feeds at both ends.
LIN1.5DI-VYV.... WM - 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.

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 6ft section on 8ft unit.

Certifications

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

Warranty

Amerlux's 3 year limited warranty. Please consult Amerlux website for details.

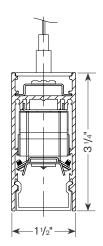


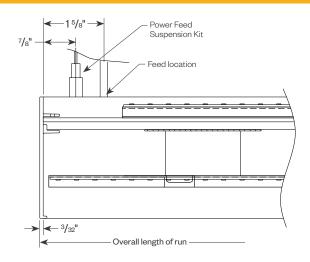


PROJECT: TYPE:

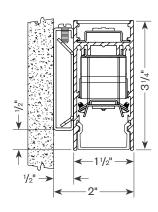
Product Details

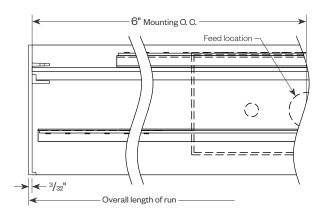
Pendant





Wall Mount





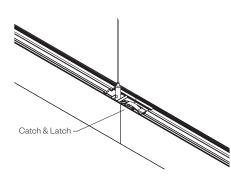
Tool-less Joining

Connect Power

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

Connect power to previous tray via power supply harness. Power Supply Harnesses Align pins & press fit fixtures together MOR/EOR

Secure Fixtures/Joint

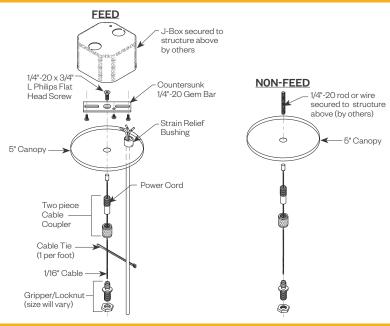






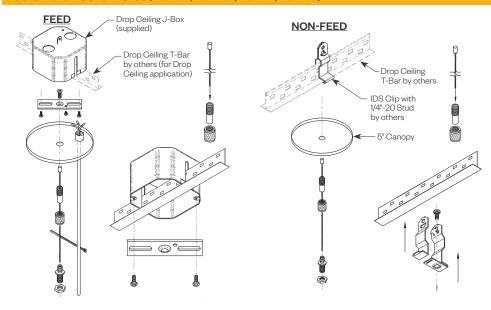
PROJECT: TYPE:

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)







PROJECT: TYPE:

Performance Data

Multiplying Factors: (Multiplying Factor is based on 4000K-80 120V IES file on website)

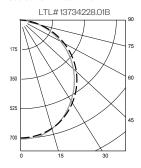
Linea 1.5" Direct ActiveClean										
Wattage:	3W	4W	5W	6W	7	W	8W	9W	10W	11W
Factor:	0.27	0.36	0.45	0.55	0.0	64	0.73	0.82	0.91	1.0
207 20001/ 4001					20016					

CCT:	3000K	4000K		
Factor:	1.0	1.0		

Linea 1.5" Indirect										
Wattage:	3W	4W	5	W	6W	7W	8	W	9W	10W
Factor:	0.30	0.40	0.8	50	0.60	0.70	0.8	30	0.90	1.0
		ССТ	T: 30		000K	4000	K			
		Facto	r:	(0.86	1.0				

LINEA 1.5" DIRECT ACTIVECLEAN PL 11W/FT AL40 4000K 4FT

Total Watts: 42.7; Total Lumens: 1,809 Source: 182 White LED's



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt			
0-40	851	47.0			
0-60	1455	80.4			
0-90	1809	100.0			
90-180	0	0.0			
Efficacy (lumens/watt) = 42.3 lm/W					

COEFFICIENTS OF UTILIZATION

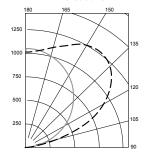
RC		8	0	
RW	70	50	30	10
RCR				
0	119	119	119	119
1	109	104	100	96
2	99	91	85	79
3	91	80	72	66
4	83	71	63	56
5	77	64	55	49
6	71	58	49	43
7	66	52	44	38
8	61	48	39	34
9	57	44	36	30
10	54	41	33	28
	,			

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

LINEA 1.5" INDIRECT BAT 10W/FT 40 4000K 4FT

Total Watts: 33.6; Total Lumens: 3,999 Source: 88 White LED's

LTL # 13789094 01



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt			
0-40	0	0.0			
0-60	0	0.0			
0-90	0	0.0			
90-180	3999	100.0			
Efficacy (lumens/watt) = 118.9 lm/W					

COEFFICIENTS OF UTILIZATION

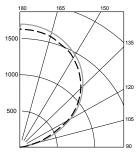
RC		8	0	
RW	70	50	30	10
RCR				
0	95	95	95	95
1	87	83	79	76
2	79	72	66	62
3	72	63	57	51
4	65	56	48	43
5	60	49	42	36
6	55	44	36	31
7	50	39	32	27
8	47	35	28	23
9	43	32	25	20
10	40	29	22	18

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

LINEA 1.5" INDIRECT UC 10W/FT 40 4000K 4FT

Total Watts: 33.6; Total Lumens: 4,691 Source: 88 White LED's

LTL#13789094.02



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt			
0-40	0	0.0			
0-60	0	0.0			
0-90	0	0.0			
90-180	4691	100.0			
Efficacy (lumens/watt) = 139.7 lm/W					

COEFFICIENTS OF UTILIZATION

RC		8	0	
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
Noto: Va	luos overos	and an % of t	otal lumon o	utput

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





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 Wiring Diagram

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	Gray		Driver 0-10V (-)	
	Dimming Control	Purple	-	0-10V (+)	V+ Red
Ground	Control	Black	-	Switched Hot	V- Black
÷ L	$\neg \neg$	White	 	Neutral	
Neutra	al .	Green	•	Ground	

Compatible Dimmers [†] :							
Wall Box			Central System				
Lutron:	Wattstopper:	Leviton:	Lutron Grafixk Eye with GRX-TV1 Interface				
Diva - DVSTV	ADF-120277	Renoir II					
Maestro - MS-Z101							
Nova-T - NTSTV-DV							

LUTRON LDE1 DIMMING

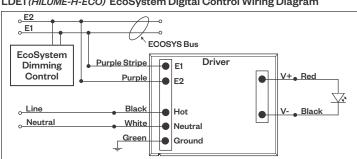
Integrates into Lutron EcoSystem building management

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!

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					

LDE1 (HILUME-H-ECO) EcoSystem Digital Control 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:

Static White - Dimming Compatibility (continued)

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 ---

DALI - DALI DIMMING 120V-277V

Digital control protocol allows individual fixture control

Notes:

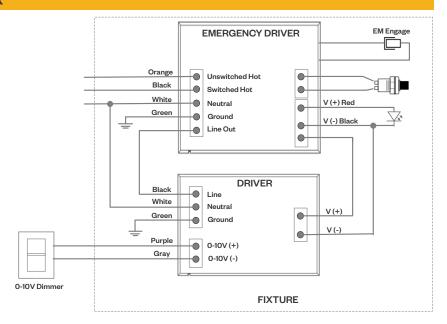
- 120VAC 277VAC*
- · Dims down to 1% light output in most cases

Compatible Dimmers†:				
Wall Box	Central System			
Leviton CD250 Controller	Dynalite			
	Fifth Light			

DALI Wiring Diagram DALI Purple Driver Dimming V+ Red Control Purple/WT <u> Line</u> Black Black <u>Neutr</u>al White Neutral Green Ground

Emergency Fixture with Built-In Battery Pack

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.