Linear Direct/Indirect with Vyv Antimicrobial Light

PROJECT:



TYPE:

Features

ActiveCLEAN'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

T	O a la la Ourana a a dia al an Malli Manustra al Lina an Dina at /la alina at
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					
Wattage per Foot	Delivered Lumens	LPW	Color Temp-CRI	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.

Linear Direct/Indirect with Vyv Antimicrobial Light

PROJECT:

TYPE:

Ordering Information

	<u> </u>	•		_•/	<u> </u>	•	/	<u> Avv</u>	. 120/2	<u></u>		··			•
1 2		3	4	5	5		6	7	8			9 10	11		12
Model 2	2 0	Optics (select 1 from ea	ach list,) 3	3	Mounting	g						4	c	ircuiting
LIN1.5DI-VYV	1	Direct				Pendant	Moun	t (aircraft ca	ble susper	nsion)		Wall Mount		1	single circuit
	F	L performance lens	6		ASW04 through ceiling tile or gyp board, white, 4* WM wall mount						2	up/down swite			
	1	ndirect			AS			ASW10 through ceiling tile or gyp board, white, 10'					se	separately	
	E	BAT batwing uplight	(stand	ard)		ASW20	throu	gh ceiling t	le or gyp l	board,	whit	.e, 20'			
	UC upper clear lens cover					ASB04 through ceiling tile or gyp board, black, 4*									
						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'									
						ASW201	r over	ceiling tee	, white, 20	O'					
						ASB04T	over	ceiling tee	black, 4'	*					
					ASB10T over ceiling tee, black, 10'										
						ASB20T	over	ceiling tee	black, 20)'					
						* 4' (xxx04	4) is st	andard len	th, other l	lengths	are	additional charge			
Wattage (Direct/Indire	ct, pe	er foot)	6	Color Ter	mp	(Direct/Inc	lirect)				7	Finish	8	8	Voltage
/ (ex. 11/10 - 1	11W/fi	t down & 10W/ft up,		Direct-Si	ngle	<u>Mode</u>		AW ActiveCLEAN™ white				e		120/277	
Direct avaiable in 3W-11V 3W-10W/ft; 3W/ft & 4W/f				AL30 30	000	00K-85CRI, white antimicrobial + light									
	109	uno i mini longriti		AL40 40	000	K-85CRI,	white	antimicrol	oial + light	t					
				Indirect	lirect										
				30 3000	30 3000K-83CRI										
				40 4000)K-8	33CRI									
Length	10	Configuration					11	Drivers							
		IND ¹ individual fixtu	ure, 2'	to 8' in 1' inc	orer	nents		OFF-0-10V 1% electronic dim to off, multi-volt,							
		CON continuous ru	un > th	ian 8', spec	bify	to		120-277\	AC, const	tant cu	rren	t driver <i>(standard)</i>			
		nearest foot						HILUME	HILUME-H-ECO Lutron LDE1 Hi-lume® 1% dim						
		CUS custom made	e to m	easure, \pm 1/	easure, \pm 1/8" of			Soft-On/	ade-to-E	-to-Black					
		customer supplied	field c	limensions		DALI DALI dimming, 120-277VAC, 1% dim									
		Note: Review wiring dia controls requirements				jrams on pages 7-8 for									
Options/Accessories															
EMC-PF ² emergency circuit requires power feed locate fixture section (<i>for other locations consult factory</i>)			ed lo	cated in las	st										
INTER SECTION (IOF OTHE	PF ² extra power feed for additional circuiting														
	l for a	additional circuiting													

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

² Not available with IND (individual) configuration.

Delta Intelligent Building Technologies

178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com Amerlux reserves the right to change details that do not affect overall function and performance. LIT-2335 • 07/03/25 • Page 2 of 8



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.

ActiveCLEANTM fixtures may be sold in all areas of the United States. Certain states/oountries 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.

PL - Performance Lens provides high efficiency with greater lens surface brightness.

Indirect: Extruded acylic 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. Color Temperature Options: 3000K & 4000K

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

	<u>Direct</u>	Indirect
CRI:	85 typical	83 typical
R9:	10 typical	16 typical
Binning:	4-step	3-step
Life :	36,000 hr.	50,000 hr.

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 (46.5 FC). Any indirect light from an ActiveClean fixture or ambient light from nearby fixtures should not be used in the 500 Lux (46.5 FC) calculation. All ActiveClean fixtures should be used in conjunction with standard cleaning practices.

(>70% of initial lumens (1 70))

Electrical

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 $^{\circ}$ 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 - *Active*CLEAN[™] 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.



Linear Direct/Indirect with Vyv Antimicrobial Light



PROJECT:

Pendant

TYPE:

Product Details





Wall Mount





Tool-less Joining

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.





Delta Intelligent Building Technologies

Linear Direct/Indirect with Vyv Antimicrobial Light



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)





Linear Direct/Indirect with Vyv Antimicrobial Light

ZONAL LUMEN SUMMARY

Lumens

851

1455

1809

0

Efficacy = 42.3 Lumens /Watt

%Fixt

47.0

80.4

100.00

0.00

PROJECT:

TYPE:

amerlu

Performance Data

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

Linea 1.5" Direct ActiveClean											
Wattage:	3W	4	1W	5W	6W	7	W	8W	9W	10W	11W
Factor:	0.27	С	.36	0.45	0.55	0.64		0.73	0.82	0.91	1.0
			C	CT:	3000	Ж	40	000K			
		Fa	ictor:	1.0			1.0				

Zone

0-40

0-60 0-90

90-180

Linea 1.5" Indirect										
Wattage:	3W	4W	5\	N	6W	7W	8	W	9W	10W
Factor:	0.30	0.40	0.50		0.60	0.70	0.80		0.90	1.0
		CCT	CCT:		3000K		4000K			
		Factor:		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

LTL#13734228.01B



COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

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
	ies expresse to the task s		nt of total lum	nen outpu

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

Total Watts: 33.6; Total Lumens: 3,999

Source: 88 White LED's



ZONAL LUMEN SUMMARY %Fixt Zone Lumens 0-40 0 0.0 0-60 0 00 0-90 0 00 90-180 3999 100.0

Efficacy = 118.9 Lumens /Watt

COEFFICIENTS OF UTILIZATION

Effectiv	tive Floor Cavity Reflectance 20%							
RC								
RW	70	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: Val	ues express	ed as perce	nt of total lu	men 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



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						
	100 71							

Efficacy = 139.7 Lumens /Watt

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%								
RC		8	0					
RW	70	50	30	10				
RCR								
0	95	95	95	95				
1	87	83	79	76				
2	79	72	66	62				
З	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 percent of total lumen output								

delivered to the task surface.



Linear Direct/Indirect with Vyv Antimicrobial Light



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 - 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!



Compatible	Dimmoret
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.



Linear Direct/Indirect with Vyv Antimicrobial Light



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



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.

