Linear Direct/Indirect with Vyv Antimicrobial Light

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

Туре:	Cable Suspended or Wall Mounted Linear, Direct/Indirect
Wattage:	3W-16W/ft (Direct); 3W-10W/ft (Indirect)
Color Temp:	3000K, 4000K
CRI:	85 typ. (Direct); 83 typ. (Indirect)
Dimming (wired):	0-10V, 1% dimming <i>(standard)</i> Lutron LDE1 Hi-lume® 1% Dim Soft-On/Fade-to-Black DALI dimming, 1% dim

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	
16	2615	41.5	4000K-85	10	5112	142	4000K-83	

Data is based on 4' fixture, 4000K, 85CRI IES files available on website.

Electrical Data

		4'		8'	
Wattage per Foot	Voltage	System Watts	Amps	System Watts	Amps
16	120V	62	0.52	124	1.0
(Direct)	277V	61.1	0.22	122.2	0.44
10	120V	36	0.3	72	0.64
(Indirect)	277V	35.9	0.14	71.8	0.28
9	120V	34.1	0.29	68.3	0.57
(Direct)	277V	34.2	0.13	67.4	0.25
5	120V	18.1	0.15	37.6	0.31
(Indirect)	277V	18.8	0.07	37.6	0.14

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.



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amerlux

Ordering Information

	1 2		3	4		5		6	7 8	9	10	11		12
	Model 2		Optics (select 1 from e	ach list)	3	3 Mounting					4	Circu	iting
	LIN2.5DI-VYV	Ē	Direct				<u>Pendant</u>	Moun	<u>t</u> (aircraft cable suspension)		Wall Mount		1 sing	le circuit
		PL performance lens				A		throug	gh ceiling tile or gyp board, w	hite, 4	* WM wall mount		2 up/	down switch
		<u>l</u>	ndirect				ASW10 t	hroug	gh ceiling tile or gyp board, wh	nite, 10)'		separately	
		E	BAT batwing uplight	(stano	ard)		ASW20	throug	gh ceiling tile or gyp board, w	hite, 2	0'			
		ι	JC upper clear lens	cover			ASB04 t	hroug	gh ceiling tile or gyp board, bla	ack, 4'	*			
							ASB10 th	nrougł	h ceiling tile or gyp board, bla	ck, 10	3			
							ASB20 t	hroug	gh ceiling tile or gyp board, bla	ack, 20	כי			
							ASW041	over	r ceiling tee, white, 4'*					
							ASW10T	over	r ceiling tee, white, 10'					
							ASW201	over	r ceiling tee, white, 20'					
							ASB04T	over	ceiling tee, black, 4'*					
							ASB10T	over	ceiling tee, black, 10'					
							ASB20T	over	ceiling tee, black, 20'					
							* 4' (xxx04	1) is sta	andard length, other lengths a	re add	litional charge			
1	Wattage (Direct/Indir	ect.	per foot)	6	Color	Temr) (Direct/In	direct	<i>t</i>)	7	Finish		8	Voltage
1	_	ex. 16/10 - 16W/ft down & 10W/ft up, Direct-Dua							-		AW <i>Active</i> CLEAN [™] white			120/277
	Direct avaiable in 3W-16	Direct avaiable in 3W-16W/ft/ Indirect available in DM W-10W/ft; 3W/ft & 4W/ft require 4' min. lenght) anti				DM30 3000K-85CRl, dual mode (2 circuit) white antimicrobial + light & violet enhanced antimicrobial					WHILEO		120/211	
						DM40 4000K-85CRI, dual mode (2 circuit) white antimicrobial + light & violet enhanced antimicrobial								
					Indirod	ndirect								
					30 30		020DI							
					40 40									
	Length	10	Configuration					11	Drivers					
			IND ¹ individual fixt	ure, 2'	to 8' in 1	incre	ements		OFF-0-10V 1% electronic	dim to	off, multi-volt,			
			CON continuous r	run > t	nan 8', sp	becify	100 077V/AC constant summer driver (standard)							
			nearest foot											
			CUS custom mad	e to m	easure,	± 1/8'	Soft On /Fords to Plank							
			customer supplied	lfield	dimensio	ons			DALI DALI dimming, 120-2	77VA	C, 1% dim			
									Note: Review wiring diagram	s on pa	ages 7-10 for			
								controls requirements						
	Options/Accessories	3												
	EMC-PF² emergency fixture section (for other	/ circ			cated in	last								
	PF ² extra power feed		,											

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-2338 • 07/07/25 • Page 2 of 11

Linear Direct/Indirect with Vyv Antimicrobial Light

PROJECT:

TYPE:

ECT:

Specifications

Application

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

Active OLEAN[™] 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: Oclorado, 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

Direct: 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 0° from the wall.

Color Temperature Options: 3000K & 4000K

Dual Mode (DM__) is a 2-circuit option that allows for switching between white Antimicrobial+Light mode and Enhanced Antimicrobial mode which provides maximum enhanced antimicrobial impact through 405nm (*violet*) light. Switching can be controlled via switch, sensor or control system (*see wiring diagrams*)

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

Life: 36,000 hr. 50,000 hr. (>70% of initial lumens (L70)) Note: On certain fixture lengths, there may be noticeable gaps of board missing when switching to the Enhanced Antimicrobial (405nm only, "violet" light) circuit on the dual mode boards. This is the normal and intended application.

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 (A65 FO). Any indirect light from an ActiveClean fixture or ambient light from nearby fixtures should not be used in the 500 Lux (A65 FO) calculation. All ActiveClean fixtures should be used in conjunction with standard cleaning practices.

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-16W/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 - *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 2.5 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. Standard or custom patterns available.

LIN2.5DI-Vyv....ASW10 - Direct / Indirect pendant 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. 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. ASW10. Or if canopy is installed on a grid Tee runner add, **T** i.e. ASW10T **LIN2.5DI-Vyv...WM** - Direct Indirect Wall Mounted using steel cleat bracket assemblies are used for each length under 8'. A third center bracket may be recommended. J box required at feed locations.

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.

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 (*Aft 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 3 year limited warranty. Please consult Amerlux website for details.





Linear Direct/Indirect with Vyv Antimicrobial Light



PROJECT:

Pendant

TYPE:

Product Details





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Wall Mount





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



PROJECT:

TYPE:

Performance Data

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

	Linea 1.5" Direct ActiveClean											Direct					
Wattage:	3W	4W	5W	6W	7W	8W	9W	10W	11W	12W	13W	14W	15W	16W	CCT:	3000K	4000K
Factor:	0.19	0.25	0.31	0.38	0.44	0.50	0.56	0.63	0.69	0.75	0.81	0.88	0.94	1.0	Factor:	1.0	1.0

	Linea 1.5" Indirect									Indirect	
Wattage:	3W	4W	5W	6W	7W	8W	9W	10W	CCT:	3000K	4000K
Factor:	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.0	Factor:	0.86	1.0

LINEA 2.5" DIRECT ACTIVECLEAN PL 16W/FT 4000K 4FT

Total Watts: 63; Total Lumens: 2615; Source: 182 White LEDs



ZONAL LUMEN SUMMARY										
Zone	Lumens	%Fixt								
0-40	1321	50.5								
0-60	2161	82.6								
0-90	2615	100.0								
90-180	0	0.0								
Luminaire Efficacy = 41.5 lm/W										



COEFFICIENTS OF UTILIZATION

42 35 10

delivered to the task surface.

LINEA 2.5" INDIRECT BAT 10W/FT 4000K 4FT

Total Watts: 35.9; Total Lumens: 4,654; Source: 112 White LED's



ZONAL LI	UMEN SUMM	
Zone	Lumens	%Fix
0-40	0	0.0
0-60	0	0.0
0-90	0	0.0
90-180	4654	100.0

Luminaire Efficacy = 129.5 lm/W

LINEA 2.5" INDIRECT UC 10W/FT 4000K 4FT

Total Watts: 36; Total Lumens: 5,112; Source: 112 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	5112	100.0							
Luminaire	Luminaire Efficacy = 142.1 lm/W								

COFFFICIENTS 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
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: Valu	les express	ed as perce	nt of total lu	men output
delivered	to the task s	surface.		

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80			
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.



Delta Intelligent Building Technologies

Linear Direct/Indirect with Vyv Antimicrobial Light

amerlux

PROJECT:

TYPE:

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 with Dry Contact Control



Low Voltage Independent Occupancy/Vacancy Sensor with Power Pack and 0-10V Dimming Control



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

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PROJECT:

TYPE:

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 ---

Low Voltage Independent Occupancy/Vacancy Sensor with Power Pack and Lutron ECOsystem Dimming Control





Lutron Vive with 0-10V and Relay Control

McWong



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.



Delta Intelligent Building Technologies

Linear Direct/Indirect with Vyv Antimicrobial Light



PROJECT:

TYPE:

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 ---

Low Voltage Independent Occupancy/Vacancy Sensor with Power Pack and DALI Dimming Control



DALI Occupancy/Vacancy Sensor with DALI to 0-10V/Relay Module



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

amerlux

PROJECT:

TYPE:

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 ---

0-10V with Enlighted Sensor Control



Delta Controls O3 Sensor Hub



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:

Emergency Fixture with Built-In Battery Pack





