

LIGHTPLANE 2 UP + UNDER

LP2UU | SUSPENDED, WALL



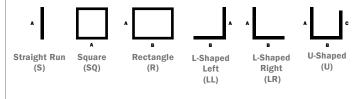
SPECIFICATIONS

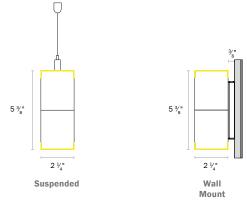
PROFILE	2" Aperture
SIZES	Configurable linear sections and shapes.
LED OUTPUT	140/ft - 1220/ft
CCT/CRI	2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K - 6500K) • RGB and RGB+W
DIMMING/ DRIVER	Integral Driver: 0-10V, DALI, DMX, eldoLED, Lutron®, PoE (Molex, Igor, NuLEDS). Dimming to 0% for select models.
POWER	3.1W - 10.7W per ft
INPUT	120VAC, 277VAC, or 347VAC
OPTICS	Lambertian distribution, Flush and reveal lens options.
FINISHES	18 standard finishes at no extra charge. Custom finishes available.
MATERIAL	6061 Extruded Aluminum
ENVIRONMENT	Indoor/outdoor, dry or damp locations
WELL/UGR	See pages 6-7 for recommended options that contribute to meeting the WELL Building Standard $^{\text{TM}}.$

DISTRIBUTIONS & PROFILES



DIRECT/INDIRECT LAMBERTIAN





Not to scale. Dimensions are nominal. Consult factory for CAD drawing















^{*}Safety and Performance information available on last page. Output and other specifications available on pages 8-9.



PRODUCT SPECIFICATION SHEET -



L. BASE MODEL (CHOOSE 1)	2. SI	IAPE/LENG	TH (CHOOS	SE 1 & ENTE	R LENGTH	H IN FEET) - FOR	R CUSTOM ANGLE	ES, CONTA	CT ALW	3. L	ED LAMPING	- DIREC	T* (CHOC	SE 1 F0	OR EACH
S LP2UUS 2" Suspended Direct & Indirect	QS	s	Individu	al/Straight	Run Sect	ion (enter leng	th in product cod	de above,	ex. S5)		A. OUTPUT		B. CRI ¹	С	. CCT ¹
S LP2UUW 2" Wall Direct & Indirect	QS	sq	Square	Configuration	on (enter :	side length A, e	ex: SQ5)			QS	LOW (700 In	n/ft)	NO C	RI/CCT	2
	QS	R	Rectang	gular Config	uration (e	nter side lengt	hs A and B, ex. F	R5-7)		QS	MED (960 In	n/ft) QS	80		2700k
	QS	LL	L-Shape	ed, Left Con	figuration	(enter side ler	ngths A and B, ex	(. LL5-7)		QS	HI (1220 lm/	ft) QS	90	QS	3000
	QS	LR	L-Shape	ed, Right Co	- nfiguratio	n (enter side le	engths A and B, e	ex. LR5-7))		RGB (140 Im	ı/ft)	BIOS		3500F
	QS	U	U-Shape	ed Configura	ation (ent	er side lengths	A, B, and C, ex.	U5-7-4)			TUNE (2700 90 CRI, 460/	K-6500K,	(STATI BIOS)	c QS	4000F
						d other specificat	ion selections.				RGBW (350		BIOS	D 3 (DYN 50 lm/ft	NAMIC BIOS
	*Sha	oe orientation	(Looking from	s are required n the Ceiling d	lown to the	floor)					CSTM		mens in p 0=100lm/		ode above.
	A (S)	A (SQ)	В (П		B (LL)	B (LR)	A (1	c B U)	CRI/ lamp Choo Stat BIOS drive	delivered lumens CCT options not sing ose when TUNE, ic BIOS SkyBlue S SkyBlue® 490. er and dimmer oc RI only. 2700K i sult ALW for cust	applicable RGB, or Re 9 490nm nm LED ca ombination s not avail	e for TUNE GBW is des LED is always in be tune ns. See pa able in BIO	RGB, or sired out ays on. D I out with ges 9-10 IS option	put put lynamic h most LED for details

4. D	RIVER* (CHOOSE 1)	5. LENS - DIRECT*	6. L	ED LAMPIN	i - IND	DIREC	CT* (CHC	OOSE 1	FOR EA.)	7. DI	RIVER - INDIRECT* (CHOOSE	1)		
QS	V00 (dim to off)	QS EXT/R Diffuse reveal lens.	-	A. OUTPUT		В	B. CRI ⁷	C	c. CCT	QS	V00 (0-10V, dim to 0%)	DMX		
QS	V01 (0-10V, dim to 1%)	*Looking for an asymmetric lens? Refer to ALW's SP2.5 or	QS	LOW (700	m/ft)	_	NO CF	RI/CC1		QS	V01 (0-10V, dim to 1%)	POEM		
QS	V05 (0-10V, dim to 5%)	SP4 fixtures.	QS	MED (960	m/ft)	QS	80		2700K ¹⁰	QS	V05 (0-10V, dim to 5%)	POEI		
	LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%)		QS	HI (1220 Ir	/ft)	QS	90	QS	3000K		P01 (ELV/TRIAC Dim to 1%)	POEN		
	P01 (ELV/TRIAC Dim to 1%)			RGB (140	n/ft)		BIOS		3500K		LDE1 (Lutron)	POE ¹²		
	TSERIES (Lutron tuneable white)			TUNE2700		,	(STATION BIOS)	QS	4000K		TSERIES (Lutron tuneable wh	ite)		
	ELDV0 (eldoLED 0/10V/0%)			90 CRI, 460		, ,			NAMIC BIOS)		ELDV0 (eldoLED 0/10V/0%)			
ELDDW (eldoLED dim to warm)				RGBW (35							ELDDW (eldoLED dim to warm)		
	DALI (DALI, dim to 0%)			CSTM			mens in p =100lm/		code above.		DALI			
	DMX (DMX, dim to 0%)		*For	delivered lume	s and w	vatts.	see 'Perf	ormanc	e Details'	*See	'Driver', 'Sensor' and lamping cha	rts for driver det		
	POEM (POE Molex)			CCT options n	t applic	able f	or TUNE,	RGB, or	RGBW		and sensor compatibility.			
	POEI (POE IGOR)		lamping Schoose when TUNE, RGB, or RGBW is desired output					Choose desired PoE solution not listed. Contact service to review and confirm the PoE system of						
	POEN (POE Nuleds)		³ Static BIOS SkyBlue® 490nm LED is always on. Dynamic					ys on. D	ynamic	choice.				
	POE® (POE Ready)			S SkyBlue® 49 er and dimmer										
and Cho	'Driver', 'Sensor' and lamping charts for driver details sensor compatibility. ose desired PoE solution not listed. Contact customer rice to review and confirm the PoE system of your ice.		¹⁰ 90	CRI only. 2700 nsult ALW for c	(is not	availa	able in Bl	OS optic						

8. LENS - INDIRECT*		9. FINISH (CHOOSE 1)				E (CHOOSE 1)	11 a	11a. EMERGENCY OPTIONS (OPTIONAL, CHOOSE 1)		
QS EXT/R Diffuse reveal lens. *Looking for an asymmetric lens? Refer to ALW's SP2.5 or SP4 fixtures.		SPECIA RAL CAT CCM	(Ex: RAL 3003) - Specify Catalog Colors		UNV 347	Universal Voltage (120VAC-277VAC) 347 Volt (Driver options may be limited. Not available with EMB)	QS	EMC/ ¹³	Emergency Battery (indicate QTY — each battery powers 4ft. section @ 1492lm. Not available in 347 V) Emergency Circuit (indicate QTY of 4ft sections to be illuminated by emergency circuit) ft in length, entire fixture will be proportional lumen output. Consult is.	

QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, <u>ALL</u> options specified in the configuration <u>must be</u> ones notated with "QS".

NOTE: Maximum 800 ft. of QuickShip-eligible product per order.



PRODUCT SPECIFICATION SHEET CONT'D

11b. SENSOR OPTIONS* (OPTIONAL, CHOOSE 1)

N (None)

WLNX/INT/__ (Cooper Wavelinx, integral) WLNX/__ (Cooper Wavelinx, remote)

ENLGHT/__ (Enlighted, remote) QS

ENLGHT/INT/__ (Enlighted, integral)

VRF/__ (Lutron Vive, integral)

VDO/__ (Lutron Vive, integral+ occ/daylight sensor)

FCJS/__ (Lutron, remote)

FCJS/S/__ (Lutron, remote + occ/daylight sensor)

MLX/INT/__ (Molex POE, integral)

MLX (Molex POE, remote)

NLT/INT/__ (nlight wired, integral occ/daylight sensor)

NLT (nLight wired remote connection)

NLTAIR/INT/__ (nLight AIR, integral)

NLTAIR (nLight AIR, remote connection) **OS/PH/INT/__** (Acuity 0-10VDC integral occ/daylight sensor)

OS/INT/HV/__ (Legrand Wattstopper High Voltage integral occ/daylight sensor)

OS/PH/HV/__ (Hubbel WASP remote occ/daylight sensor)

11c. ADDITIONAL OPTIONS* (OPTIONAL)

*Only compatible with suspended mount models.

OS SB Seismic Bracing

QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, ALL options specified in the configuration must be ones notated with "QS". NOTE: Maximum 800 ft. of QuickShip-eligible product per order.

Quickship availability on occupancy and photocell/daylight sensors may vary. Contact ALW for more information.

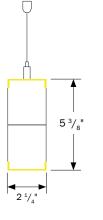
Default quantity is 1 sensor per 8ft, type alternate quantity into product code above if desired. Sensor descriptions available on page 12.

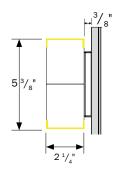
Not all sensors are compatible with all drivers. See 'Driver', 'Sensor' and lamping charts for driver details

and sensor compatibility.



MECHANICAL DIAGRAMS





LP2UUS SUSPENDED MOUNT

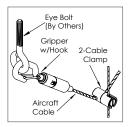
LP2UUW
WALL MOUNT

SUSPENSION MOUNTING OPTIONS



CEILING HARDWARE

- 4.5" canopy per power feed location. Canopy finish is always white. Contact ALW for alternate colors.
- Bullet mount,
- 8' aircraft cable
- 2" canopy (for use with T-bar mounting) per suspension point



SEISMIC BRACING (SB)

Add-on hardware includes cable gripper with hook, 2-cable clamp and specified length of aircraft cable per suspension point.



STANDARD FINISHES

Standard finishes are available at no additional charge.

ALUMINUM



Anodized Aluminum QS

BASIC POWDER COAT



METALLIC POWDER COAT



SATIN ANODIZED EFFECT POWDER COAT



GLOSS POWDER COAT (80-95% GLOSS)



Contact ALW Quotes for sample paint finish swatches.

SPECIAL ORDER FINISHES*



RAL CLASSIC COLORS (80-95% GLOSS): RAL____

Most RAL Classic Colors are available for a minimum setup fee. On your specification submittal choose your RAL color by entering the 4-digit RAL code (Ex: RAL 3003).

See www.alwusa.com/finishes



CUSTOM COLOR MATCH: CCM____

Custom powder coat color matching is available for a premium setup fee. Consult ALW for additional information.



CATALOG COLORS: CAT____

The complete range of powder coat colors from Tiger Drylac and TCl catalogs are available for a minimum setup fee. Consult ALW for a catalog color you would like to specify.

- *An individual setup fee will apply to each unique Special Order Finish per purchase order. (ex: RAL 5023 and RAL 2008 are specified for multiple line items on a purchase order. 2x setup fees will apply)
- *Printed or on-screen colors are only approximations consult actual Color Chip Set before specifying)



SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™ —

ALW is committed to providing the highest quality luminaires for a multitude of applications, with many versatile lighting solutions that contribute to satisfying the WELL Building Standard. Below is a quick guide to assist you in specifying appropriate product configurations for WELL features. Links to official WELL standards can be found here.

CIRCADIAN LIGHTING DESIGN FEATURE LO3

The Circadian Lighting Design feature requires projects to provide users with appropriate exposure to light for maintaining circadian health and aligning the circadian rhythm with the day-night cycle.

To conform to these requirements, the project must meet <u>one</u> of the following 4 light level options (a, b, c, or d) below. These light levels are measured on the vertical plane at eye level of the occupant. The light levels are achieved at least between the hours of 9 a.m. and 1 p.m. and may be lowered after 8 p.m. at night.

DESIGNING WITH ELECTRIC LIGHT ONLY	DESIGNING WITH BOTH ELECTRIC LIGHT & DAYLIGHT	POINTS
a. At least 150 EML [136 melanopic equivalent daylight D65]	b. The project achieves at least 120 EML [109 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	1
c. At least 240 EML [218 melanopic equivalent daylight D65]	d. The project achieves at least 180 EML [163 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	3

Choose from a BIOS Static or BIOS Dynamic light engine to assist in a healthy, circadian lighting design. CCT, CRI, Luminous Flux Multipliers, and Melanopic Ratios are shown below for easy specification.

CIRCADIAN LIGHTING DESIGN (3PT MAX)	BIOS STATIC (BIOS)			BIOS	DYNAMIC (BI	OSD)	HOW TO SPECIFY
сст	3000K	3500K	4000K	3000K	3500K	4000K	1. Select BIOS or BIOSD for LED LAMPING
CRI / R9	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	 Select the appropriate Lumen OUTPUT Select the appropriate CCT
LUMINOUS FLUX MULTIPLIER	0.95	0.98	1.00	0.95	0.98	1.00	See BIOS LED Lamping and Performance Details at the back of this spec sheet for lumen outputs, COI index
MELANOPIC RATIO (R)*	0.70	0.80	0.90	0.74	0.83	0.95	values, and other additional information.

GLARE CONTROL FEATURE L04

Glare is defined as excessive brightness of a light-source, excessive brightness-contrasts and excessive quantities of light. Glare has been associated with a host of health issues that range from visual discomfort and eye fatigue to headaches and migraines.

To conform to Glare Control requirements, each luminaire must meet one of the following options (a, b, or d) for regularly occupied spaces.

GLARE CONTROL CRITERIA (3PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. Indirect (100% emission above horizontal)	✓	100%	 Select N (None) for LED LAMPING - DIRECT Select any of the options for LED LAMPING - INDIRECT
b. Unified Glare Rating (UGR)*	√	If looking to meet UGR requir here: https://alwusa.com/pro	rements, ALW recommends specifying the Superplane 2.5 (SP2.5) series products oducts/superplane-2-5/
c. Shielding Angle	No	-	-
d. Max. Luminance (45°-90°) Max. Intensity (45°-90°)	✓		ance and Max. Intensity requirements, ALW recommends specifying the Superplane ere: https://alwusa.com/products/superplane-2-5/



SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™ (CONTINUED) -

ELECTRIC LIGHT QUALITY - PART 1: COLOR RENDERING QUALITY + PART 2: FLICKER FEATURE L07

Using light sources that have characteristics similar to daylight, including high color rendering and minimal flicker can improve comfort and well-being of users in a space and contribute to creating a healthy environment.

- Part 1: Each luminaire must meet one of the following requirements (a or b) for regularly occupied spaces.
- Part 2: Each luminaire must meet the IEEE 1789-2015 Standard Recommended Practice to manage flicker.

PART 1 - ENSURE COLOR RENDERING QUALITY (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. CRI > 90	✓	CRI = 93 - 95	Select 90 (90CRI) for LED LAMPING
b. CRI > 80 with R9 > 50	✓	CRI = 83, R9 > 90	Select BIOS or BIOSD for LED LAMPING
c. IES Rf ≥ 78 , IES Rg \geq 100, -1% \leq IES Rcs, h1 \leq 15%	No	-	-
PART 2 - MANAGE FLICKER (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
Meets IEEE 1789-2015 Standard Recommended Practice	√	Modulation = 1% Flicker Frequency = 120 - 2000Hz	Select V05, V01, LDE1, DALI or DMX for LED DRIVER



PERFORMANCE DETAILS (DIRECT OR INDIRECT) -

ОИТРИТ	DELIVERED LUMENS/FT	EFFICACY (LM/W)	WATTS/FT ¹⁴	CRI OPTIONS	CCT OPTIONS	
LOW ¹⁵	700		6.2		2700K (90CRI Only)	
MED ¹⁵	960	Up to ~114	8.4	80 90		
HI ¹⁵	1220		10.7		3000K 3500K	
TUNE	WW: 460, CW: 500	Up to ~119	8.4	90+	4000K 5000K	
RGB ¹⁶	140		4.4	N/A		
RGBW ¹⁷	RGB: 140 RGB+W: 250 White Only: 110	N/A	7.2	80 (White Chip)	2700K - 6500K	

¹⁴Lumens/Watt and Watts/ft have been calculated assuming a driver efficiency of 85%. Depending on field conditions, actual measured values may fluctuate by 5-8%.

LAMPING OPTIONS —

LED Lamping limitations exist due to heat. Please follow these guidelines when specifying.

		Indirect						
		NONE	LOW	MED	HI			
	NONE	×	✓	✓	✓			
Direct	LOW	✓	✓	√	✓			
Dir	MED	✓	✓	✓	✓			
	HI	√	✓	✓	×			

¹⁵ Performance calculations are based on LM-79 test of HI output at 80 CRI and 4000K. LOW and MED calculations are extrapolated values.

¹⁶Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue).

¹⁷Performance calculations are derived from the following LM-79 tests: 1) RGB LEDs illuminated, 2) RGB+W LEDs illuminated, 3) White LED only illuminated.

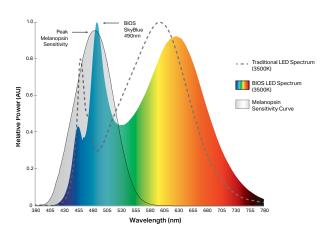


BIOS OVERVIEW



BIOS SkyBlue® technology is designed to provide the specific circadian stimulus required to improve overall sleep by featuring a distinct peak in the 'skyblue' spectral power at 490nm. Unlike traditional white LEDs, BIOS SkyBlue® makes it possible to achieve high EML (Equivalent Melanopic Lux) and Melanopic/Photopic ratios without harsh CCTs or high, glare-inducing light levels.

BIOS light engines are available in **Static** or **Dynamic** options for use with a variety of applications. In Static light engines, the SkyBlue 490nm signal always remains on while the fixture is powered. Dynamic options include a dynamic board and Bio-Dimmer module to allow the user to dim-out the SkyBlue 490nm signal during night time hours.



	BIOS STATIC (BIOS)	BIOS DYNAMIC + BIO-DIMMING™ (BIOSD)
DESCRIPTION	490nm SkyBlue light signal always remains on while the fixture is powered.	Dynamic light engine with Bio-Dimming add the ability to fine-tune and dim-out the 490nm SkyBlue signal during night time hours or as desired.
TYPICAL APPLICATIONS	Environments typically occupied only during daylight hours (6am - 8pm) such as offices and schools.	Environments occupied for a 24-hour period such as hospitals, security facilities, behavioral health facilities, factories, etc.
CONTROLS & DIMMING*	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS melanopic ratio remains constant as you dim down the light intensity.	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS SkyBlue® LED can be dimmed-out using a standard control/dimmer.

^{*}No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.

BIOS LED LAMPING DETAILS (STATIC OR DYNAMIC)

OUTPUT	DELIVERED LUMENS (LM/FT)	WATTS (W/FT)	EFFICACY (LM/W)	CRI OPTIONS
LOW ¹⁸	700	6.2		
MED ¹⁸	960	8.4	Up to ~114	82+
HI ¹⁸	1220	10.7		

BIOS LED PERFORMANCE DETAILS

сст	CRI (Ra) Static BIOS Dynamic BIOS	CRI (R9) Static BIOS Dynamic BIOS	DAYTIME M/P RATIO ¹⁹ Static BIOS Dynamic BIOS	NIGHTTIME M/P RATIO ²⁰ Static BIOS Dynamic BIOS	COI ²¹ Static BIOS Dynamic BIOS
3000K	82	94	0.70	0.70	3.0
	83	90	0.73	0.45	3.3
3500K	83	91	0.80	0.80	3.1
	83	90	0.84	0.50	3.1
4000K	83	91	0.90	0.90	3.1
	83	90	0.95	0.55	3.1

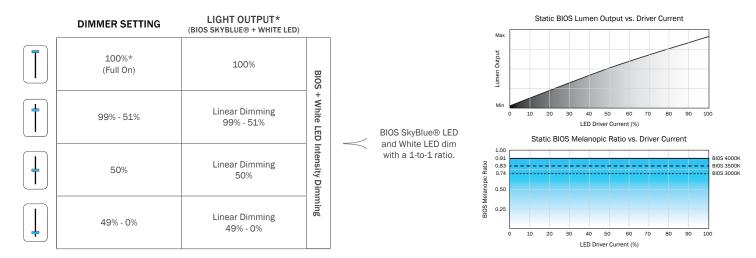
¹⁸ Performance calculations are based on LM-79 test of BIOS 4000K, HI output. LOW and MED calculations are extrapolated values.

¹⁹Melanopic to photopic (M/P) ratios are used to help calculate equivalent melanopic lux (EML) values which is the metric used for circadian lighting in the WELL™ Building Standard. ²⁰Static LED nighttime M/P ratios remain the same as daytime M/P ratios as BIOS SkyBlue® always remains at full output.

²⁰Static LED nighttime M/P ratios remain the same as daytime M/P ratios as BIOS SkyBlue® ³⁰ always remains at full output. ²¹BIOS SkyBlue® meets the Cyanosis Observation Index (COI) requirements for visual assessment of cyanosis, providing a COI up to 3.3.



BIOS STATIC DIMMING CONTROL CHARACTERISTICS



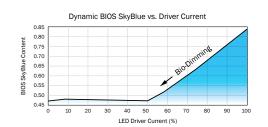
^{*}While melanopic ratio remains constant, dimming/reducing light output will have an overall impact on Equivalent Melanopic Lux (EML). That is because EML = Vertical Lux * melanopic ratio. Therefore, if you reduce light levels by dimming the LEDs, you will reduce your effective EML, even when the melanopic ratio stays constant.

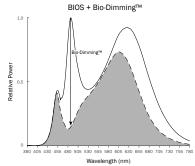
BIOS DYNAMIC + BIO-DIMMING™ DIMMING CONTROL CHARACTERISTICS

	DIMMER SETTING	BIOS SKYBLUE® LED	WHITE LED	LIGHT OUTPUT			
T	100%* (Full On)	100%	100%	100%	Bio-Dir		BIOS SkyBlue® maintained for maximum circadian impact.
†	99% - 51%	100% - 0%	100%	100% - 90%	-Dimming		Light output remains relatively constant.
	50%	NO BIOS	100%	~90%	White LED Intensity Dimming	\prec	BIOS SkyBlue® removed to provide minimal circadian
	49% - 0%	NO BIOS	100% - 0%	Linear Dimming 90% - 0%) LED Dimming		impact. White LED output dims linearly.

^{*}No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.









DRIVERS

PRODUCT CODE	DESCRIPTION
N	None. Choose when indirect lamping is not desired.
V00	0-10V dimming down to 0% (dim to off).
V01	0-10V dimming down to 1%.
V05	0-10V dimming down to 5% (Down to 10% for TUNE lamping).
P01	Driver supports both TRIAC Forward Phase 2-Wire and ELV Reverse Phase 3-Wire dimming controls.
LDE1	(LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.
TSERIES	Lutron T-Series Tunable White Class 2 LED Driver (For use with Lutron Quantum Control Systems)
ELDV0	eldoLED 0/10V dimming down to 0% (when choosing nLight Air integral sensors a compatible eldoLED LEDcode version will be specified)
ELDDW	eldoLED 0/10V dim-to-warm dimming down to 0% (specify with TUNE LED lamping. Driver will be programmed with LightShape dim-to-warm setting)
DALI	DALI flicker-free dimming down to 0%.
DMX	DMX flicker-free dimming down to 0%.
POEM	Molex CoreSync PoE LED Driver. Contact ALW to assist with your project.
POEI	IGOR PoE LED Driver. Contact ALW to assist with your project.
POEN	NuLEDS PoE LED Driver. Contact ALW to assist with your project.
POE	Specify a PoE driver of your choice. Fixture comes with low voltage leads and no LED driver. Contact ALW to assist with your project

^{*}Most drivers can be programmed to specific dimming levels if desired. Contact ALW for specific dimming level requests.

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. If there are specific components required for your application that aren't listed on this spec sheet, please contact ALW customer support today to specify a compatible solution of your choice.

DRIVER/LED LAMPING COMPATIBILITY									
	STD	STD STD/RIOS TUNE RGR RGR(W)		CA TITLE 24 JA8/JA10 ²²	IEEE P1789 & HD TV STUDIO ²³				
V00	•	•	•			•			
V01	•	•	•			•			
V05	•	•	•			•			
P01	•	•	•			•			
LDE1	•	•				•	•		
TSERIES			•			•	•		
ELDV0	•	•	PER REQUEST			•	•		
ELDDW			•						
DALI	•	•	•			•			
DMX	•		•		•	PER REQUEST	PER REQUEST		
POEM			PER REQ	•	•				
POEI			PER REQ	•	•				
POEN		•							

Indicates compatibility

^{*}Standard lamping (STD) -LOW/MED/HI

²²Fixtures specified with 90CRI 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to California Title 24 JA8 and JA10 Appendices

²³The following drivers conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers'. These drivers may also be installed in HD TV Studio applications utilizing high frequency camera equipment.



SENSORS -

	PRODUCT CODE	DESCRIPTION	Location
	N	None. Choose when sensors are not desired.	-
000050	WLNX/INT	Wavelinx Wireless integral occ/daylight sensor (WaveLinx part: OEM-WAA)	Integral
COOPER WAVELINX	WLNX	Fixture is built with 0/10V wiring to connect to Wavelinx Wireless sensors and power/relay packs (sensors and equipment not provided by ALW)	Remote
ENLIGHTED™	ENLGHT/INT	Enlighted integral connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5E-CL)	Integral
ENLIGHTED	ENLGHT	Enlighted® remote connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5S-H-CL)	Remote
	VRF	Lutron® Vive integral RF wireless fixture control (Lutron Part: DFCSJ-0EM-RF)	Integral
LUTRON VIVE	VDO	Lutron® Vive integral RF wireless fixture control + daylight/occ sensor (Lutron Part: DFCSJ-0EM-0CC)	Integral
LOTRON VIVE	FCJS	Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)	Remote
	FCJS/S	Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)	Remote
MOLEX POE	MLX/INT	Molex CoreSync PoE Integral Fixture-Mounted Sensor R - occ/daylight/temperature/humidity (Molex Part: 182091-1000)	Integral
CORESYNC	MLX	Molex PoE sensors for use with Molex/PoE drivers. Customer will need to determine who to purchase PoE equipment from	Remote
NLIGHT	NLT/INT	Fixture is built with nLight Wired integral components specified by agency. Contact ALW to review project details.	Integral
WIRED®	NLT	Fixture is built to connect to nLight Wired remote components specified by agency. Contact ALW to review project details.	Remote
NLIGHT	NLTAIR/INT	Fixture is built with nLight Air (Wireless) components specified by agency. Contact ALW to review project details.	Integral
WIRELESS®	NLTAIR	Fixture is built to connect to nLight Air (Wireless) remote components specified by agency. Contact ALW to review project details.	Remote
	OS/PH/INT	Acuity 0-10VDC Integral occ/daylight sensor (Acuity Part: MSD 7 ADC WH) Automated Dimming Functionality Only. Manual Dimming not available. Customer to set sensor functionality in the field. Lowest dim level depends on driver.	Integral
VALUE SENSORS	OS/INT/HV	Legrand Wattstopper High Voltage Integral occ/daylight on/off sensor (Part: FS-355) On/Off or Manual Dimming Functionality Only (based on occupancy and daylight). Connect fixture 0/10V wires to wall dimmer in the field. No Automated Dimming available.	Integral
	OS/PH/HV	Hubbell WASP High Voltage 0-10V remote surface mount occ/daylight sensor. 120/277/347VAC input (Hubbell Part: WSPDSMUNV) Automated Dimming Functionality: Connect fixture 0/10V wires to sensor in the field. Adjust occ/photocell settings as desired. On/Off or Manual Dimming Functionality: Turn photocell functionality OFF. Cap off 0/10V wires on sensor. Connect fixture 0/10V wires to wall dimmer in the field.	Remote

^{*}All connected lighting sensors/systems must be programmed in the field by an electrical commissioner familiar with the system. Refer to the 'Sensor Compatibility' and 'Driver/ Sensor Compatibility' charts to specify compatible sensors, LED lamping, and LED driver systems.



SENSORS CONT'D -

SENSOR COMPATIBILITY										
PRODUC	CT CODE	SENSOR TYPE	MAX MT HT CA TITLE 24		STD*	TUNE	RGB	RGB(W)		
COOPER WAVELINX	WLNX/INT	OCCUPANCY/PHOTOCELL	15 ft	•	•					
	WLNX		15 ft	•	•					
	ENLGHT/INT	OCCUPANCY/PHOTOCELL	15 ft	•	•	CUSTOM REQUEST				
ENLIGHTED™	ENLGHT	OCCUPANCY/PHOTOCELL	40 ft	•	•	CUSTOM REQUEST				
	VRF	WIRELESS CONTROL	12 ft	•	•					
	VDO	OCCUPANCY/PHOTOCELL	12 ft	•	•					
LUTRON VIVE	FCJS	WIRELESS CONTROL	12 ft	•	•					
	FCJS/S/	OCCUPANCY/PHOTOCELL	12 ft	•	•					
MOLEX POE	MLX/INT	OCCUPANCY/PHOTOCELL TEMPERATURE/HUMIDITY	16 ft	•	•					
CORESYNC	MLX		16 ft	•	•	•	CUSTOM REQUEST	CUSTOM REQUEST		
NLIGHT	NLT/INT	OCCUPANCY/PHOTOCELL	15 ft	•	•					
WIRED®	NLT		15 ft	•	•					
NLIGHT	NLTAIR/INT	OCCUPANCY/PHOTOCELL	15 ft	•	•					
WIRELESS®	NLTAIR		15 ft (average)	•	•					
	OS/PH/INT	OCCUPANCY/PHOTOCELL	15 ft		•					
VALUE SENSORS	OS/INT/HV	OCCUPANCY/PHOTOCELL	15 ft	•	•	-	•	_		
	OS/PH/HV	OCCUPANCY/PHOTOCELL	45 ft	•	•	-		•		

^{• -} Indicates compatibility
- On/off sensor functionality only

^{*}Standard lamping (STD) - MIN/LOW/MED/HI



SENSORS (CONT'D) -

DRIVER/SENSOR COMPATIBILITY										
	WLNX/INT	WLNX	ENLGHT/ INT	ENLGHT	VRF	VDO	FCJS	FCJS/S/	MLX/INT	
Voo	•	•	•	•			•	•		
V01	•	•	•	•			•	•		
V05	•	•	•	•			•	•		
P01										
LDE1					•	•	•	•		
TSERIES										
ELDV0										
ELDDW										
DALI					•	•				
DMX										
POE/ MOLEX									•	
POE/IGOR	Sensor types will depend on the PoE system configuration. Contact ALW for details.									
POE/ NULEDS		Senso	r types will de	pend on the P	oE system cor	nfiguration. Co	ntact ALW for	details.		
POE/ READY		Senso	r types will dep	pend on the P	oE system cor	nfiguration. Co	ntact ALW for	details.		

- Indicates compatibility
- Fixture can have automated dimming via sensor OR on/off functionality and manual dimming
- On/off sensor functionality only

	DRIVER/SENSOR COMPATIBILITY CONT'D										
	MLX	NLT/INT	NLT	NLTAIR/INT	NLTAIR	OS/PH/INT	OS/INT/HV	OS/PH/HV	NO SENSOR		
VOO						•	_	<u> </u>	•		
V01						•		<u> </u>	•		
V05						•	_	A	•		
P01							_		•		
LDE1									•		
TSERIES							_		•		
ELDV0		•	•	•	•	•		_	•		
ELDDW							_	_	•		
DALI							_	_	•		
DMX							_		•		
POE/ MOLEX	•								•		
POE/IGOR		Sensor types will depend on the PoE system configuration. Contact ALW for details.									
POE/ NULEDS		Sensor	r types will o	lepend on the Pol	E system co	nfiguration. Cor	ntact ALW for	details.			
POE/ READY		Sensor	r types will o	lepend on the Pol	E system co	nfiguration. Cor	ntact ALW for o	details.			



PHOTOMETRICS -

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC) ²⁴ (0°-180°) (90°-270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
		6 ft	22.7		816	1160.5
		8 ft	12.8	1.24 1.18		
EVT/D		10 ft	8.2			
EXT/R		12 ft	5.7			
		14 ft	4.2			
		16 ft	3.2			

^{*}Photometric calculations based on HI 4000K 80 CRI fixture combination. Actual results may vary in the field. For footcandle and output multipliers refer to the ALW IES File Multipliers Chart

²⁴ Spacing criterion refers to maximum distance luminaires can be spaced to provide uniform illumination on the working plane or surface. Luminaire spacing = Spacing Criterion (SC) x Mounting Height (MH) (ex. 1.14 (SC) x 10' (MH) = 11.4' Luminaire Spacing).



ADDITIONAL OPTIONS & SPECIFICATIONS

LED PERFORMANCE

> 54,000 hours at 70% lumen maintenance, LM80 / TM-21

HOUSING

100% recyclable, extruded architectural grade 6061 aluminum with a 0.08" minimum wall thickness.

LENS OPTIONS

Extruded, twin-layered, high-impact acrylic. EXT is white and extra diffuse with minimal- to no-source visibility.



REVEAL LENS - EXT/R

SAFETY & REGULATORY

Fixtures specified with 90CRI, 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to California Title 24 JA8 and JA10 Appendices. EldoLED drivers can conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers .

Contact ALW customer support today and we can help you with your project requirements..

ETL Listed (U.S. & Canada). Suitable for dry or damp locations. Conforms to UL std. 1598, Luminaires. Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2.

WARRANTY

Limited 11-year warranty. Details: alwusa.com/warranty

OPERATING TEMPERATURE

Luminaire should be installed and operated ONLY in dry environments where the ambient temperature ranges from -4°F to 122°F (-20°C to 50°C). Luminaire operation in environments outside the listed temperature range voids the warranty AND may damage the product or adversely impact lamp life, lumen output and color consistency.

POWER CABLES

Power cables come standard in a transparent sheathing to match steel aircraft suspension cables. Please contact customer support if custom cables are required for your application. Power cables cannot be swapped in the field as it will void the ETL Safety Listing and Product Warranty.



CONTROLS, SENSORS, & LED DRIVER

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs. We currently support integration with Lutron, Enlighted, nLight, Cooper Wavelinx, eldoLED, Molex PoE, NuLEDS PoE, Igor PoE, Osram, Philips, and more. If there's a component or system needed that you don't see on the spec sheet please contact ALW customer support today so we can review your requirements.

WEIGHT

Approximately 3 lbs. per linear foot (not including downlight option). Weight may vary depending on mounting, downlight, and additional options selected.

WOOD VENEER

Most ALW fixture configurations are available with real wood veneer as a custom request. Contact ALW customer support so we can help you with your custom wood veneer request.