



SPECIFICATIONS

PROFILE	2.5" Aperture, 3.93" total width			
SIZES	2ft - 8ft sections			
LED OUTPUT	350lm/ft - 1,525lm/ft			
CCT/CRI	2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K - 6500K) • RGB and RGB+W			
DIMMING/ DRIVER	Integral and Remote 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	ControlRoll Optics - Continuous lens up to 250ft. Direct/indirect. Lambertian, Asymmetric, Batwing and Antiglare/Grazer optics available.			
FINISHES	10 standard acoustic colors 17 powder coat finishes Custom finishes also available			
MATERIAL	6063-T6 Extruded Aluminum. 0.5" PET polyester felt.			
ENVIRONMENT	Dry or damp locations			
 See ALW WELL and BIOS pages for recommended options that contribute to meeting the WELL Building Standard™. *Safety and Performance information available on last two pages. Output and other specifications available on page 8 				

DISTRIBUTIONS & PROFILES

























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PRODUCT SPECIFICATION SHEET

1 2 4a 4b	4c 5 6 7a	7b 7c 8 9 10	11 12 13 14		
	EXAMPLE: SP2.5SA – CAP/M – S5 –	MED/90/3500 - V00 - CR/S - LOW/90/3	500 - V00 - CR/S - ACW - DCSTM		
15a 15b 15c	1 2 3	4 5 6	7 8 9 10 11		
	SW – SW – UNV – EMB/1 12 13 14 15a	- AY/xx - SB 15b 15c			
1. BASE MODEL	2. END CAP* (CHOOSE 1)	3. NOMINAL LENGTH* (ENTER LENGTH IN FEET)	4. LED LAMPING - DIRECT* (CHOOSE 1 FOR EACH)		
SP2.5SA 2.5" aperture, 3.93" total width	CAP/M ¹ Metal End Cap	Individual/Straight Run Section	N None. Lens will be substituted with acoustic lid.		
Suspended Acoustic	CAP/A Acoustic End Cap	from 2-8ft	A. OUTPUT [*] B. CRI ² C. CCT ²		
	*Add an apothetic touch with a brushed or powder coated	(enter length in product code	MIN (350 lm/ft) NO CRI/CCT ³		
	end cap.	above, ex. S5)	LOW (475 lm/ft) 80 2700K ⁵		
	 Metal end caps are not available for indirect only lamping option. 	*Lengths are nominal. To ensure lengths match the exact lengths of other fixtures and/or sound haffles on the	MED (750 lm/ft) 90 3000K		
		project it's recommended to include all products on a	HI (1030 IM/TT) BIOS' 3500K (STATIC MAX (1250 Im/ft) PIOS) 4000K		
		Plan), and any additional details for ALW to review.	RGB (140 Im/ft) BIOSD ⁴ (DYNAMIC BIOS)		
			TUNE (2700K-6500K, 90 CRI, 475/515 lm/ft)		
			RGBW (3500K, White, 80 CRI, 140/220 lm/ft)		
			CSTM ⁶ (Enter lumens in product code above.		
	Metal End cap Acoustic End cap		Ex. 0100-100min(11)		
			² CRI/CCT options not applicable for TUNE, RGB, or RGBW		
			lamping ^{\$} Choose when TUNE, RGB, or RGBW is desired output		
			Static BIOS SkyBlue® 490nm LED is always on. Dynamic BIOS SkyBlue® 490nm LED can be tuned out with most LED		
			driver and dimmer combinations. See pages 10-11 for		
			⁵ 90 CRI only. 2700K is not available in BIOS options		
			B DBIVED INDIDECT*(CHOOSE 1)		
S. DRIVER - DIRECT (CHOUSE I)	6. LENS - DIRECT	7. LED LAMPING - INDIRECT (CHOUSE I FOR EA.	6. DRIVER - INDIRECT (CHOUSE I)		
QS N (None)	N [®] None.	N None. Select when indirect lamping is not desired. Lens substituted with aluminum lid.	QS N (None)		
QS VOU (dim to off) QS V01 ($0_{-1}0$)/ dim to 1%)	lambertian distribution	Must select direct lamping.	QS VOU (dim to off) QS VO1 (0-10)/ dim to 1%)		
OS V05 (0-10V, dim to 5%)	CR/ASY ControlRoll lens with asymmetric/	A. OUTPUT B. CRI ² C. CCT ²	OS V05 (0-10V, dim to 5%)		
LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%)	wall wash distribution (peak	LOW (500 lm/ft) 80 2700K ⁴	LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%)		
P01 (ELV/TRIAC phase dim to 1%)	CR/BAT ⁹ ControlRoll lens with batwing/	MED (775 lm/ft) 90 3000K	P01 (ELV/TRIAC phase dim to 1%)		
TSERIES (Lutron tuneable white)	flood distribution (peak intensity	HI (1050 lm/ft) BIOS ⁴ 3500K	TSERIES (Lutron tuneable white)		
ELDVO (eldoLED 0-10V dim to 0%)	60°)	MAX (1300 lm/ft) BIOS) 4000K	ELDVO (eldoLED 0-10V dim to 0%)		
ELDDW (eldoLED dim to warm)	CR/AG ControlRoll lens with antiglare/ grazer optics (35° distribution)	RGB (150 Im/ft) BIOSD ⁴ (DYNAMIC BIOS)	ELDDW (eldoLED dim to warm)		
DALI (DALI, dim to 0%)		TUNE (2700K-6500K, 90 CRI, 490/530 lm/ft)	DALI (DALI, dim to 0%)		
POEM (POE Molex)	"Select when direct lamping is not desired. The lens will be substituted with an aluminum lid with same finish as	RGBW (3500K, White, 80 CRI, 150/325 Im/tt)	POEM (POE Molex)		
POEI (POE IGOR)	fixture. ⁹ Not available for TUNE, RGB, RGBW, BIOS, or BIOSD	Ex. 0100=100lm/ft)	POEI (POE IGOR)		
POEN (POE Nuleds)	lamping.	For delivered lumens and watts, see 'Performance Details'	POEN (POE Nuleds)		
POE ⁷ (POE Ready)		² CRI/CCT options not applicable for TUNE, RGB, or RGBW lamping	POE ⁷ (POE Ready)		
*See 'Driver' and lamping charts for driver details		³ Choose when TUNE, RGB, or RGBW is desired output ⁴ Static BIOS SkyBlue® 490nm LED is always on, Dynamic	*See 'Driver' and lamping charts for driver details		
⁷ Choose desired PoE solution not listed. Contact customer	CR/S CR/ASY CR/BAT CR/AG	BIOS SkyBlue® 490nm LED can be tuned out with most LE	⁷ Choose desired PoE solution not listed. Contact customer		
service to review and confirm the PoE system of your choice.		⁵ 90 CRI only. 2700K is not available in BIOS options	Ins. service to review and confirm the PoE system of your choice.		
		Consult ALW for custom lumen packages.			
9. LENS - INDIRECT (CHOOSE 1)	10. ACOUSTIC FINISH* (CHOOSE 1)	11. ACOUSTIC DESIGN (CHOOSE 1)	12. FIXTURE FINISH* (CHOOSE 1)		
N ¹⁰ None.	ACW Crystal White	N None. Choose for a solid acoustic	SIANDARD FINISHES SW 🔲 Satin White		
lambertian distribution	AHG Heather Gray	DCSTM Custom Design (See template on	SB Satin Black		
CR/BAT ControlRoll lens with batwing/	ACG Charcoal Gray	page 5)	AS Aluminum Silver Anodized Effect		
flood distribution (peak	AJB Jet Black		TB Textured Black		
BAT ¹¹ Rigid batwing optic (peak	AAG Aloe Green		PREMIUM FINISHES		
intensity 120°)	ATO Titan Orange		See chart on page 6 for more standard finishes. Manually		
¹⁰ Lens will be substituted with an aluminum lid with same	ASR Scarlet Red		type in the finish code (Ex: OB		
finish as fixture. ¹¹ Not available for TUNE, RGB, RGBW, BIOS, or BIOSD	AMB Milanight Blue		= OII-Rubbea Bronze)		
	See page / for larger swatches and additional information	Custom Design Cutout	SPECIAL ORDER FINISHES*		
			RAL Specity RAL Classic Color (Ex: RAL 3003)		
CR/S CR/BAT BATWING (120°)			CCM Specify Catalog Colors		
			Custom Color Match		
			*Manually type in the finish code for special order		
			minsnes types		
		C	DNTINUES ON NEXT PAGE		
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PRODUCT SPECIFICATION SHEET CONT'D -

13. FINISH - END CAP	(CHOOSE 1)	14. VOLTA	GE (CHOOSE 1)	15a. EMERGE	ENCY OPTIONS (OPTIONAL, CHOOSE 1)
N ¹² None. STANDARD FINISI LB Light Brus	HES hed Aluminum	UNV 347	Universal Voltage (120VAC-277VAC) 347 Volt (Driver options may be limited. Not available with EMB)	EMB/ ¹³	Emergency Battery (indicate QTY – each battery powers 4ft. section @ 1492Im. Not available in 347 V)
SB Satin Blac AS Aluminum TB Textured E	k Silver Anodized Effect Black			EMC/ ¹³	Emergency Circuit (indicate QTY of 4ft sections to be illuminated by emergency circuit)
PREMIUM FINISHE See chart of standard fi type in the = Oil-Rubbe	S on page 6 for more nishes. Manually finish code (Ex: OB ed Bronze)			¹³ For fixtures une illuminated wit ALW for more of	der 4ft in length, entire fixture will be h a proportional lumen output. Consult Jetails.
SPECIAL ORDER F RAL Spec (Ex: 1	FINISHES* cify RAL Classic Color RAL 3003)				
CCM Spec	cify Catalog Colors com Color Match				
*Manually type in the finish finishes types ¹² Select when specifying a	n code for special order icoustic end cap.				
15b. CONTROL OPTIO	NS* (OPTIONAL)	15c. ADDIT	IONAL OPTIONS (OPTIONAL)		
N	None	SB S	eismic Bracing		
FACTORY CONTROL OS/PH/INT/	S Integral Occupancy/ Daylight sensor				
OS/PH/HV/	- Remote Occupancy/ Daylight sensor				

NETWORK CONTROLS

Embedded controls below are placeholder specs. See the ALW Controls Guide to finalize your final control spec.

AY/xx	Acuity
AN/xx	Avi-on
CA/xx	Casambi
CW/xx/	Cooper Wavelinx
EC/xx/	Encelium
EN/xx/	Enlighted
LU/xx/	Lutron
NX/xx/	NX Controls
WA/xx/	Wattstopper
wiekskip svoilskility	an accuracy and photocoll

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

ALW MECHANICAL DIAGRAMS



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.

ACOUSTIC END CAP

ND CAP

METAL END CAP



Available with Direct, Indirect, or Direct/Indirect Lamping. When Indirect Only is specified an acoustic lid will be installed on the direct lamping side.



Available with Direct or Direct/ Indirect Lamping. Metal end caps are not available for Indirect Only Lamping.

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CUSTOM ACOUSTIC PATTERNS –

Choose from a solid sound absorbing baffle or create your own custom designs by following the instructions and template guidelines below. Gray areas indicate templates for acoustic pattern cutouts.



DIMENSION	BASE MODEL	CUT OUT AREA
A	SP2.5SA - 5.5" height	3.5"
	S2 - 2' (24") length	22"
В	S3 - 3' (36") length	34"
	S4 - 4' (48") length	46"
	S5 - 5' (60") length	58"
	S6 - 6' (72") length	70"
	S7 - 7' (84") length	82"
	S8 - 8' (96") length	94"



HOW TO SUBMIT YOUR CUSTOM ACOUSTIC PATTERN?

- 1. DOWNLOAD THE ACOUSTIC CUSTOM PATTERN .ZIP FILE ON THE PRODUCT PAGE
- Open the appropriate .ai (Adobe Illustrator) or CAD .dxf file.
- 2. INPUT YOUR DESIGN WITHIN THE TEMPLATE AREA. Template area will be marked with a dashed perimeter.
- 3. SAVE YOUR FILE. INCLUDE THE PROJECT NAME AND OTHER SUPPORTING INFO AT THE END OF THE FILE NAME.
- For example, "SP2.5SA Custom Acoustic Design Template Project ALW".
- **4. SUBMIT FORMS BELOW TO ALW FOR REVIEW.** 1. Acoustic Design Template File
 - 2. Product Code and Quantities



FINISHES

Standard finishes are available at no additional charge.

STANDARD FINISHES



PREMIUM FINISHES

BASIC POWDER COAT



SATIN ANODIZED EFFECT POWDER COAT



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.alw-inc.com/resources/finishes

*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

METALLIC POWDER COAT



GLOSS POWDER COAT (80-95% GLOSS)





CUSTOM COLOR MATCH: CCM____

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

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ACOUSTIC FINISHES

ACOUSTIC COLORS & INFORMATION

The Harmonic Collection features 10 acoustic material colors comprised of ~0.5" (12mm) PET polyester fibers, specially designed for premium sound absorption. ALW's PET acoustics as a 2D absorber have a NRC (Noise Reduction Coefficient) of 85%. Each panel is precision-cut to size using our CNC-cutting process, enabling a wealth of design options from beveled edges to custom cutouts. All panels conform to ASTM E84 Class A and EN13501-1 Class B fire ratings.



COMPANION ACOUSTIC COLORS & RAL FINISHES

The chart below outlines suggested RAL finishes to complement the acoustic colors above. With exception to ALW Satin Black and Satin White these RAL suggestions are not standard paint finish offerings. See next page for ALW's full paint finish catalog.

ACOUSTIC COLOR	COMPANION RAL FINISHES	ACOUSTIC COLOR	COMPANION RAL FINISHES
Crystal White	ALW Satin Black (SB) ALW Satin White (SW)	lvory White	ALW Satin Black (SB) ALW Satin White (SW)
Marble White	RAL 7024 - Graphite Grey RAL 7046 - Telegrey 2 ALW Satin Black (SB) ALW Satin White (SW)	Aloe Green	RAL 6025 - Fern Green (Slightly darker shade than acoustic) RAL 7013 - Brown Grey ALW Satin Black (SB) ALW Satin White (SW)
Heather Gray	RAL 7024 - Graphite Grey RAL 7046 - Telegrey 2 ALW Satin Black (SB) ALW Satin White (SW)	Titan Orange	RAL 2011 - Deep Orange RAL 5003 - Sapphire Blue RAL 5008 - Grey Blue RAL 8011 - Nut Brow RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)
Charcoal Gray	RAL 7021 - Black Grey RAL 7024 - Graphite Grey ALW Satin Black (SB) ALW Satin White (SW)	Scarlet Red	RAL 3031 - Orient Red RAL 7047 - Telegrey 4 RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)
Jet Black	ALW Satin Black (SB) ALW Satin White (SW)	Midnight Blue	RAL 5002 - Ultramarine Blue RAL 2011 - Deep Orange RAL 4010 - Magenta RAL 7047 - Telegrey 4 RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)

PERFORMANCE DETAILS

OUTPUT	OPTIC TYPE	DELIVERED LUMENS/FT DIRECT	DELIVERED LUMENS/FT INDIRECT	EFFICACY (LM/W) DIRECT	EFFICACY (LM/W) INDIRECT	WATTS/FT ¹⁴	CRI OPTIONS	CCT OPTIONS
	CR/S	350	370	113	119			
	CR/ASY	370	N/A	119	N/A	-		
MIN ¹⁵	CR/BAT	350	350	113	113	3.1		
	CR/AG	370	N/A	119	N/A	-		
	BAT	N/A	440	N/A	142	-		
LOW ¹⁵	CR/S	475	500	113	119			
	CR/ASY	500	N/A	119	N/A	-		
	CR/BAT	470	490	112	117	4.2		
	CR/AG	500	N/A	119	N/A	-		
	BAT	N/A	580	N/A	138			
	CR/S	750	775	115	119			07001/ (0000)
	CR/ASY	775	N/A	119	N/A	-		Only)
MED ¹⁵	CR/BAT	735	750	113	115	6.5	80+ 90+	3000K 3500K 4000K 5000K
	CR/AG	775	N/A	119	N/A			
	BAT	N/A	920	N/A	142			
	CR/S	1030	1050	117	119		3	
	CR/ASY	1050	N/A	119	N/A	-		
HI ¹⁵	CR/BAT	1000	1030	114	117	8.8		
	CR/AG	1050	N/A	119	N/A	-		
	BAT	N/A	1250	N/A	142			
	CR/S	1250	1300	117	121			
	CR/ASY	1300	N/A	121	N/A			
MAX ¹⁵	CR/BAT	1200	1250	112	117	10.7		
	CR/AG	1300	N/A	121	N/A			
	BAT	N/A	1525	N/A	143			
	CR/S	WW: 475, CW: 515	WW: 490, CW: 530	WW: 113, CW: 123	WW: 117, CW: 126			
	CR/ASY	WW: 490, CW: 530	N/A	WW: 117, CW: 126	N/A		90+	
TUNE	CR/BAT	WW: 460, CW: 500	WW: 480, CW: 520	WW: 110. CW: 119	WW: 114, CW:124	4.2/channel		2700K - 6500K
	CR/AG	WW: 490, CW: 550	N/A	WW: 117, CW: 131	N/A			
	BAT	N/A	N/A	N/A	N/A			
	CR/S	140	150	28	30			
	CR/ASY	140	N/A	28	N/A			
RGB ¹⁶	CR/BAT	140	150	28	34	5	N/A	N/A
	CR/AG	140	N/A	28	N/A			
	BAT	N/A	N/A	N/A	N/A			
	CR/S	RGB: 140, W: 220	RGB: 150, W:325	RGB: 28, W: 44	RGB: 30, W: 65			
	CR/ASY	RGB: 140, W: 220	N/A	RGB: 28, W: 44	N/A			050011
RGBW ¹⁷	CR/BAT	RGB: 140, W: 220	RGB: 150, W: 230	RGB: 28, W: 44	RGB: 30, W: 46	5	80+ (White Chip)	3500K (White Chip)
	CR/AG	RGB: 140, W: 220	N/A	RGB: 28, W: 44	N/A			
	BAT	N/A	N/A	N/A	N/A			

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%.

¹⁵Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH 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.



TM-30-18 DETAILS (90 CRI LAMPING)

сст	CRI (Ra)	CRI (R9)	TM-30 Rf	TM-30 Rg	Duv
2700K	94	57	92	100	-0.0012
3000K	93	55	91	100	-0.0012
3500K	93	55	90	98	-0.0002
4000K	92	58	89	97	-0.0003





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

BIOS LED PERFORMANCE DETAILS

Ουτρυτ	DELIVERED LUMENS (LM/FT) DIRECT CR/S CR/ASY CR/BAT CR/AG	DELIVERED LUMENS (LM/FT) INDIRECT CR/S CR/BAT BAT	EFFICACY (LM/W) DIRECT CR/S CR/ASY CR/BAT CR/AG	EFFICACY (LM/W) INDIRECT CR/S CR/BAT BAT	WATTS (W/FT)	CRI
MIN ¹⁶	350 370 350 370	370 350 440 -	113 119 113 119	119 113 142 -	3.1	
LOW16	475 500 470 500	500 490 580	113 119 112 119	119 117 138	4.2	
MED ¹⁶	750 775 735 775	775 750 920	115 119 113 119	119 115 142	6.5	82+
HI ¹⁶	1030 1050 1000 1050	1050 1030 1250	117 119 114 119	119 117 142	8.8	
MAX ¹⁶	1250 1300 1200 1300	1300 1250 1525 -	117 121 112 121	121 117 143 -	10.7	

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 83	94 90	0.70 0.73	0.70 0.45	3.0 3.3
3500K	83 83	91 90	0.80 0.84	0.80 0.50	3.1 3.1
4000K	83 83	91 90	0.90 0.95	0.90 0.55	3.1 3.1

18 Performance calculations are based on LM-79 test of BIOS 4000K, MAX output. MIN, LOW, MED and HIGH 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.

²¹BIOS SkyBlue® meets the Cyanosis Observation Index (COI) requirements for visual assessment of cyanosis, providing a COI up to 3.3.

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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						
	100%* (Full On)	100%	100%	100%	Bio-Dir	\langle	\sim	\sim	\sim	BIOS SkyBlue® maintained for maximum circadian impact.
†	99% - 51%	100% - 0%	100%	100% - 90%	nming		Light output remains relatively constant.			
$\left[\frac{1}{1}\right]$	50%	NO BIOS	100%	~90%	White Intensity	\prec	BIOS SkyBlue® removed to provide minimal circadian			
Ļ	49% - 0%	NO BIOS	100% - 0%	Linear Dimming 90% - 0%	e LED Dimming		White LED output dims linearly.			

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







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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.				
ELDVO	eldoLED 0/10V dimming down to 0% (when choosing nLight Air integral sensors a compatible eldoLED LEDcode version will be specified)				
TSERIES	Lutron T-Series Tunable White Class 2 LED Driver (For use with Lutron Quantum Control Systems)				
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/BIOS	TUNE	RGB	RGB(W)	CA TITLE 24 JA8/JA10 ²²	IEEE P1789 & HD TV STUDIO ²³				
V00	•	•	•			•					
V01	•	•	•			•					
V05	•	•	•			•					
P01	•	•				•					
LDE1	•	•				•	•				
ELDV0	•	•	PER REQUEST			•	•				
TSERIES			•			•	•				
ELDDW	•		•			•	•				
DALI	•	•	•			•					
DMX	•		•		•	PER REQUEST	PER REQUEST				
POEM			PER REQ	•	•						
POEI			PER REQ	•	•						
POEN			PER REQ	•	•						

Indicates compatibility

*Standard lamping (STD) - MIN/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.



OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC)²⁴ (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
CR/ASY ²⁵		2 - 2 RECOMM DISTANCE F	.5 ft MENDED FROM WALL	1.14 1.30	1328	1300
CR/BAT		6 ft	18.6	1.22 1.7	801	1200
		8 ft	10.4			
		10 ft	6.7			
		12 ft	4.6			
		14 ft	3.4			
		16 ft	2.6			
CR/AG		6 ft	39.6	.8 1.12	1424.7	1300
		8 ft	22.3			
		10 ft	14.2			
		12 ft	9.9			
		14 ft	7.3			
		16 ft	5.6			
CR/S		6 ft	25.8	1.16 1.2	927	1250
		8 ft	14.5			
		10 ft	9.3			
		12 ft	6.4			
		14 ft	4.7			
		16 ft	3.6			
BAT ²⁸		0.5 ft	38	1.28 3.14	1235	1525
		1 ft	34.5			
		2 tt	27.8			
		3 TT	22.2			
		4 π 5 #	12.5			

*Photometric calculations based on MAX 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

²⁴Spacing 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).

²⁵Recommended distance from wall calculated at 10ft mounting height

²⁶BAT mounting height for BAT refers to *distance from ceiling* since BAT optic is only offered in indirect output.



LED PERFORMANCE

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

HOUSING

100% recyclable, extruded architectural grade 6063 aluminum with a 0.09" minimum wall thickness.

CONTROLROLL LENS OPTICS

The optically engineered ControlRoll lens provides smooth, uniform, and seamless illumination for linear lengths of 250' while dynamically controlling output and reducing glare. The ControlRoll lens rolls out and snaps into the housing channel for easy installation.





INDIRECT BATWING OPTIC

A 120 $^\circ$ rigid batwing optic can be specified for indirect lamping to achieve wide distributions of light across ceilings and to eliminate hotspots.

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. *For integral driver*, Conforms to UL std. 1598 luminaires, *For remote driver*, Conforms to UL std. 2018 luminaires. Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2

WARRANTY

Limited 5-year warranty. Details: alw-inc.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.



WEIGHT

Approximately 3.9lbs. per linear foot. Weight may vary depending on additional options selected.

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.

ADDITIONAL OPTIONS & SPECIFICATIONS CONT'D

ACOUSTICS

Material: 0.5" (12mm) PET polyester fibers. Acoustic sound absorbers are 100% recyclable at end of life use. NRC Rating: Our acoustics as a 2D absorber have a Noise Reduction Coefficient of 85%. Full test reports of common layouts for 3D absorbers including NRC and Sabin values will be available shortly.

Fire Rating: Conforms to ASTM E84 Class A. Also conforms to EN13501-1 Class B.

CARE

PET acoustics: Remove dust with compressed air, a vacuum or lint roller.

Aluminum & polymer components: Remove dust and debris with a clean, dry or damp lint-free cloth.