



SUPERPLANE 4R

SP4R | CONTROLROLL OPTICS | RECESSED

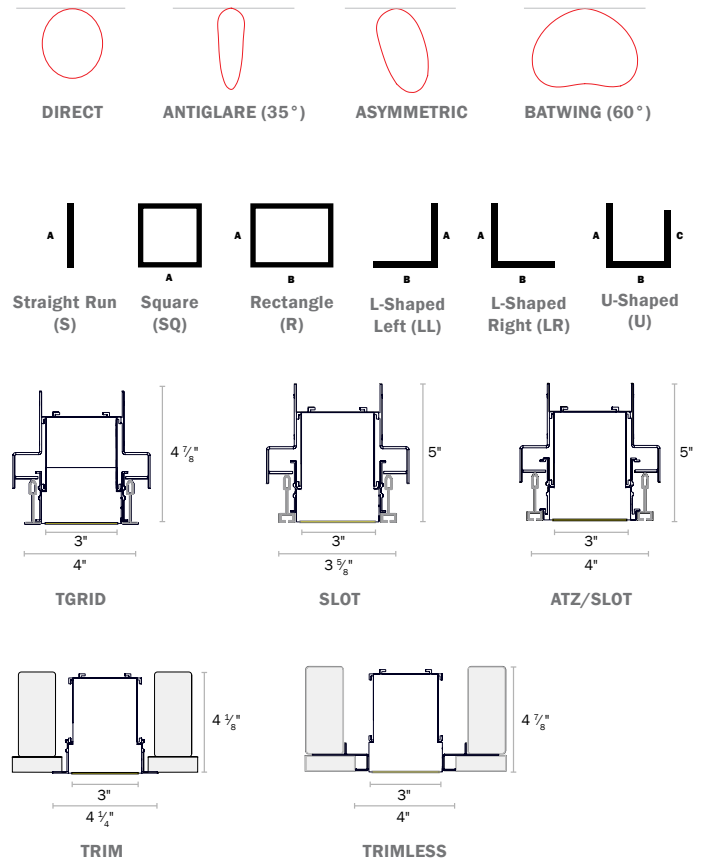


SPECIFICATIONS

PROFILE	4" Aperture
SIZES	2ft - 8ft sections
LED OUTPUT	350lm/ft - 1,400lm/ft. Accent downlights available (800/1000/1500lm Output Options).
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. Lambertian, Asymmetric, Batwing and Antiglare/Grazer optics available.
FINISHES	16 powder coat finishes Custom finishes also available
MATERIAL	6063-T6 Extruded Aluminum
ENVIRONMENT	Indoor/outdoor, dry or damp locations
WELL/UGR	See ALW WELL and BIOS pages for recommended options that contribute to meeting the WELL Building Standard™

*Safety and Performance information available on last page. Output and other specifications available on page 7.

DISTRIBUTIONS & PROFILES



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



Rev 012325



PRODUCT SPECIFICATION SHEET

1	2	3	4a	4b	4c	5	6	7a	7b	7c	7d	8	9	10	11	12
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EXAMPLE: SP4R/F – TRIM – S5 – MED/90/3500K – V00 – CR/S – DL1000/80/3500/25 – HEX – LTEA – 1 – SW

13a 13b 13c 14

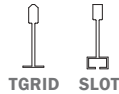
1 2 3 4 5 6 7 8 9 10 11

– UNV – EMB/1 – AY/xx – CP – QS

12 13a 13b 13c 14

1. BASE MODEL (CHOOSE 1)			2. CEILING TYPE (CHOOSE 1)			3. SHAPE/LENGTH* (CHOOSE 1 & ENTER LENGTH IN FT) - FOR CUSTOM ANGLES, CONTACT ALW		
QS	SP4R/F	4.0" Flush Mount	QS	TRIM¹	Trimmed	QS	S__	Individual/Straight Run Section (<i>enter length in product code above, ex. S5</i>)
QS	SP4R/R	4.0" Regressed Mount	QS	MUD²	Trimless (mud-in drywall only)	QS	SQ__	Square Configuration (<i>enter side length A, ex: SQ5</i>)
			QS	RHF¹	Trimless, hidden flange	QS	R__	Rectangular Configuration (<i>enter side lengths A and B, ex. R5-7</i>)
			QS	TGRID/9/16	9/16" T-Grid	QS	LL__	L-Shaped, Left Configuration (<i>enter side lengths A and B, ex. LL5-7</i>)
			QS	TGRID/15/16	15/16" T-Grid	QS	LR__	L-Shaped, Right Configuration (<i>enter side lengths A and B, ex. LR5-7</i>)
			QS	SLOT	9/16" Slot	QS	U__	U-Shaped Configuration (<i>enter side lengths A, B, and C, ex. U5-7-4</i>)
			QS	ATZ/TGRID/9/16^{3,4}	Armstrong® 9/16" T-Grid	*Lengths greater than 8' consist of multiple individual housing sections joined together, and include ONE continuous ControlRoll lens for the entire straight/linear run. Lengths are nominal and may vary based on lamping and other specification selections. Consult ALW when exact lengths are required.		
			QS	ATZ/TGRID/15/16^{3,4}	Armstrong® 15/16" T-Grid	*Shape orientation (Looking from the Ceiling down to the floor)		
			QS	ATZ/SLOT^{3,4}	Armstrong® 9/16" Slot			

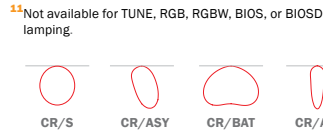
¹For install in wood, drywall, metal, etc.
²Not compatible with regressed base models
³Fits Armstrong 4" TechZone
⁴All product and company names are trademarks or registered trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them.



4. LED LAMPING (CHOOSE 1 FOR EACH)			5. DRIVER* (CHOOSE 1)			6. LENS (CHOOSE 1)			7. ACCENT - DOWNLIGHT (CHOOSE 1 FOR EACH)		
A. OUTPUT⁵	B. CRI⁶	C. CCT⁶	QS	V00 (0-10V, dim to 0%)	POEI (POE IGOR)	QS	CR/S	ControlRoll lens with diffused, lambertian distribution	QS	N	None. Select when Accent Downlight Lamping not desired.
QS MIN (350 lm/ft)	NO CRI/CCT*		QS	V01 (0-10V, dim to 1%)	POEN (POE Nuleds)	QS	CR/ASY	ControlRoll lens with asymmetric/wall wash distribution (peak intensity 25°)	A. SPOT	B. CRI⁷	C. CCT
QS LOW (475 lm/ft)	QS 80	QS 2700K⁸	QS	V05 (0-10V, dim to 5%)	POE¹⁰ (POE Ready)	QS	CR/BAT¹¹	ControlRoll lens with batwing/flood distribution (peak intensity 60°)	DL800 (800 lm/ft)	80	2700K
QS MED (750 lm/ft)	QS 90	QS 3000K	QS	P01 (ELV/TRIAC phase dim to 1%)		QS	CR/AG	ControlRoll lens with antiglare/grazer optics (35° distribution)	DL1000 (1000 lm/ft)		3000K
QS HI (1020 lm/ft)	BIOS⁷ (STATIC BIOS)	QS 3500K	QS	LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%)					DL1500 (1500 lm/ft)		3500K
QS MAX (1250 lm/ft)	BIOS⁷ (DYNAMIC BIOS)	QS 4000K	QS	TSERIES (Lutron HI-Lume, Phase dim, 2-wire to 1%)							4000K
QS RGB (140 lm/ft)	BIOSD⁷ (DYNAMIC BIOS)		QS	ELDVO (eldoLED, 0-10V, dim to 0%)					D. BEAM SPREAD		
TUNE (2700K-6500K, 90 CRI, 470/510 lm/ft)			QS	ELDDW (eldoLED dim to warm)					25		
RGBW (3500K, White, 80 CRI, 140/220 lm/ft)			QS	DALI (DALI, dim to 0%)					40		
CSTM _____ ⁹ (Enter lumens in product code above. Ex. 0100=100lm/ft)			QS	DMX (DMX, dim to 0%)							
			QS	POEM (POE Molex)							

⁵Choose when TUNE, RGB, or RGBW is desired output
⁶For delivered lumens and watts, see "Performance Details"
⁷CRI/CCT options not applicable for TUNE, RGB, or RGBW lamping
⁸Static 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 9-10 for details.
⁹90CRI only, 2700K is not available in BIOS options
¹⁰Consult ALW for custom lumen packages.

*Driver specifications provided upon request. See page 11 for driver details.
¹¹Refer to all "Driver" and lamping charts for compatibility.
¹²Choose desired PoE solution not listed. Contact customer service to review and confirm the PoE system of your choice.



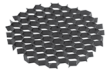

¹¹Not available for TUNE, RGB, RGBW, BIOS, or BIOSD lamping.
¹²Downlights are not available in BIOS options as the COB is too large to fit in downlight housing.

CONTINUES ON NEXT PAGE →

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.



PRODUCT SPECIFICATION SHEET CONT'D

8. ACCESSORY-ACCENT DOWNLIGHT (CHOOSE 1)		9. DRIVER - ACCENT DOWNLIGHT (CHOOSE 1)		10. QUANTITY - ACCENT DOWNLIGHT (CHOOSE 1)		11. FINISH* (CHOOSE 1)	
QS	<p>N None</p> <p>HEX Hexcell louver</p> <p>SNT Snoot</p> <p>HEXSNT Both Hexcell louver and Snoot</p>	<p>QS N None. Select when Accent Downlight Lamping not desired.</p> <p>[____]¹² Manually type code for desired driver in product code above. Driver must match type specified for DIRECT and/or INDIRECT lamping.</p>	<p>QS N None</p> <p>--- Type total quantity of downlights per run length in product code on previous page. (Maximum 1x for 2-3ft., 2x for 4-5ft., and 3x for 6-8ft.)</p>	<p>QS STANDARD FINISHES</p> <p>QS SW <input type="checkbox"/> Satin White</p> <p>QS SB <input checked="" type="checkbox"/> Satin Black</p> <p>QS AS <input type="checkbox"/> Aluminum Silver Anodized Effect</p> <p>QS TB <input checked="" type="checkbox"/> Textured Black</p> <p>PREMIUM FINISHES</p> <p>--- See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze)</p> <p>SPECIAL ORDER FINISHES*</p> <p>RAL____ Specify RAL Classic Color (Ex: RAL 3003)</p> <p>CCM____ Specify Catalog Colors Custom Color Match</p>			
 <p>HEXCELL LOUVER</p>  <p>SNOOT</p>		<p>¹²Accent downlights not available with TSERIES and ELDQ/DW driver types.</p>					

12. VOLTAGE (CHOOSE 1)		13a. EMERGENCY OPTIONS (OPTIONAL, CHOOSE 1)		13b. CONTROL OPTIONS* (OPTIONAL)		13c. CERTIFICATION OPTIONS	
QS	<p>UNV Universal Voltage (120VAC-277VAC)</p> <p>347 347 Volt (Driver options may be limited. Not available with EMB)</p>	<p>QS EMB/___¹³ Emergency Battery (indicate QTY— each battery powers 4ft. section @ 1492lm. Not available in 347 V)</p> <p>QS EMC/___¹³ Emergency Circuit (indicate QTY of 4ft sections to be illuminated by emergency circuit)</p>	<p>QS N None</p> <p>FACTORY CONTROLS</p> <p>QS OS/PH/INT/___ Integral Occupancy/ Daylight sensor</p> <p>QS OS/PH/HV/___ Remote Occupancy/ Daylight sensor</p> <p>NETWORK CONTROLS Embedded controls below are placeholder specs. See the ALW Controls Guide to finalize your final control spec.</p> <p>AY/xx Acuity</p> <p>AN/xx Avi-on</p> <p>CA/xx Casambi</p> <p>CW/xx/___ Cooper Wavelinx</p> <p>EC/xx/___ Encelium</p> <p>EN/xx/___ Enlighted</p> <p>LU/xx/___ Lutron</p> <p>NX/xx/___ NX Controls</p> <p>WA/xx/___ Wattstopper</p>	<p>QS CP Chicago Plenum Certification</p>			
		<p>¹³For fixtures under 4ft in length, entire fixture will be illuminated with a proportional lumen output. Consult ALW for more details.</p>		<p>*Quickship availability on occupancy and photocell daylight sensors may vary. Contact ALW for more information.</p> <p>*Contact ALW for Additional Zone specifications</p>			

14. QUICKSHIP OPTIONS

QS Select if you want your fixture to be QS
Note: To be eligible for the Quickship (QS) program, all previous selected options must also be marked QS

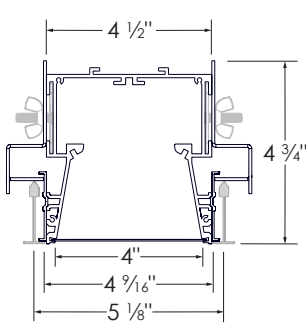
QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, ALL options specified in the configuration must be ones notated with "QS".
 NOTE: Maximum 800 ft. of QuickShip-eligible product per order.



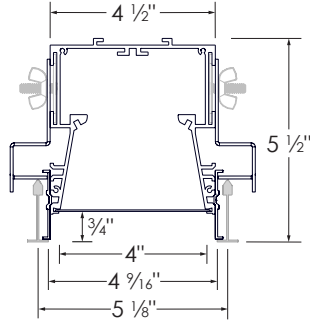
MECHANICAL DIAGRAMS

T-GRID

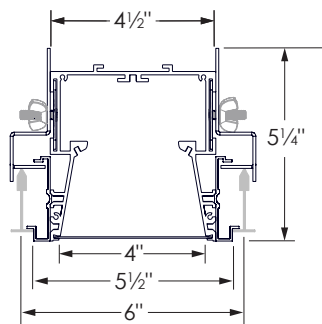
Add 3" to height measurements provided to determine total plenum clearance required with installed mounting hardware.



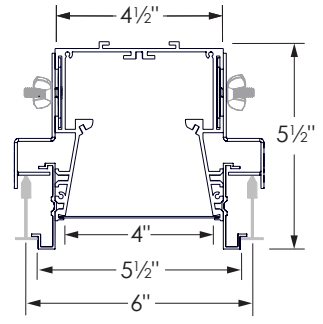
SP4R
TGRID/9/16



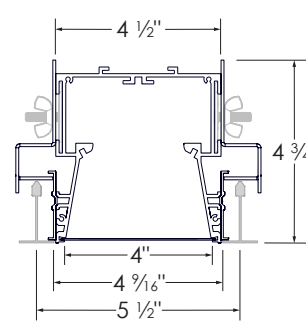
SP4R/R
TGRID/9/16



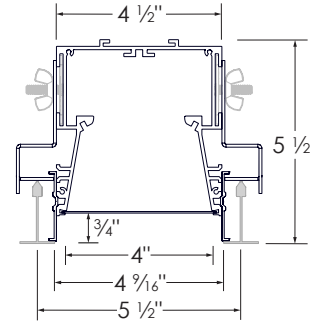
SP4R
ATZ/TGRID/9/16



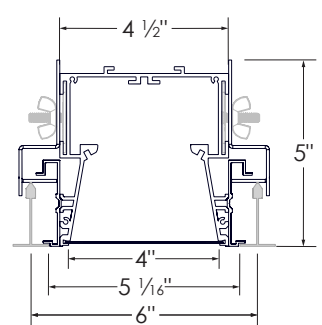
SP4R/R
ATZ/TGRID/9/16



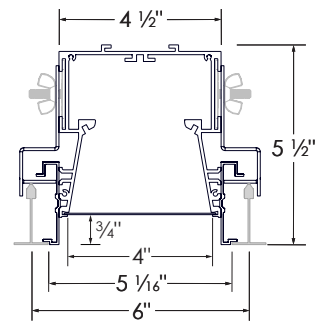
SP4R
TGRID/15/16



SP4R/R
TGRID/15/16



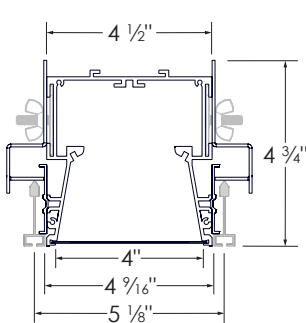
SP4R
ATZ/TGRID/15/16



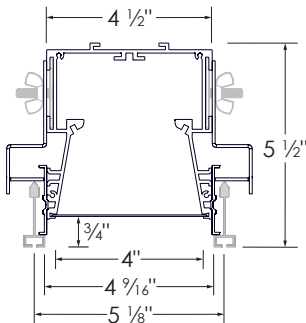
SP4R/R
ATZ/TGRID/15/16

SLOT

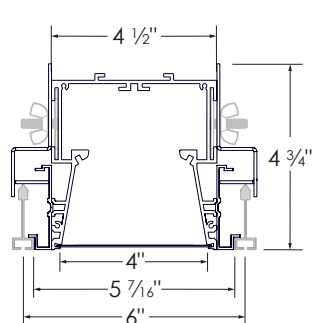
Add 3" to height measurements provided to determine total plenum clearance required with installed mounting hardware.



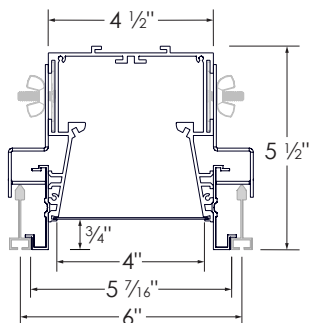
SP4R
SLOT



SP4R/R
SLOT



SP4R
ATZ/SLOT



SP4R/R
ATZ/SLOT

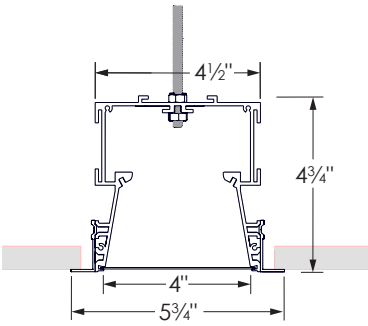
*Specify SP4R SLOT for Tegular installation.

*Specify SP4R ATZ/SLOT for Tegular installation.

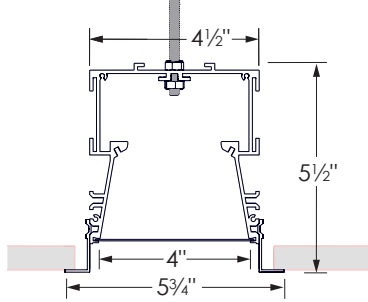


MECHANICAL DIAGRAMS CONT'D

TRIM

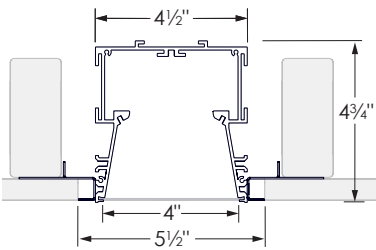


SP4R
TRIM

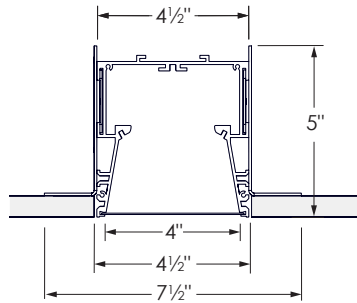


SP4R/R
TRIM

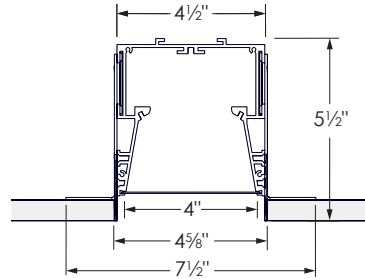
TRIMLESS



SP4R
MUD



SP4R
RHF
RECESSED HIDDEN FLANGE



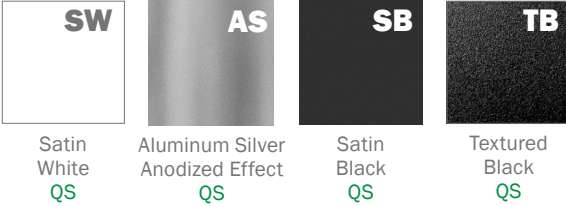
SP4R/R
RHF
RECESSED HIDDEN FLANGE



FINISHES

Standard finishes are available at no additional charge.

STANDARD FINISHES - QS ELIGIBLE

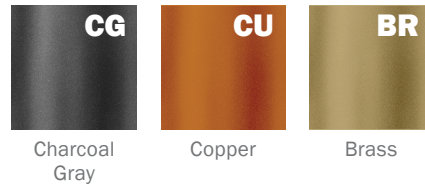


PREMIUM FINISHES

BASIC POWDER COAT



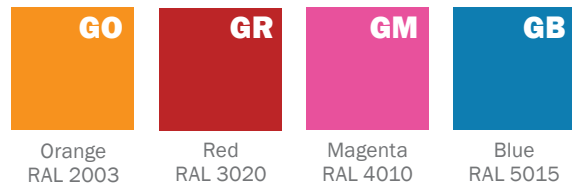
METALLIC POWDER COAT



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.alw-inc.com/resources/finishes



CUSTOM COLOR MATCH: CCM_ _ _ _

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

*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



PERFORMANCE DETAILS

OUTPUT	OPTIC TYPE	DELIVERED LUMENS/FT	EFFICACY (LM/W)	WATTS/FT ¹⁴	CRI OPTIONS	CCT OPTIONS
MIN ¹⁵	CR/S	350	113	3.1	80+ 90+	2700K (90CRI Only) 3000K 3500K 4000K 5000K
	CR/ASY	400	129			
	CR/BAT	380	123			
	CR/AG	340	110			
LOW ¹⁵	CR/S	475	113	4.2		
	CR/ASY	540	129			
	CR/BAT	525	125			
	CR/AG	460	110			
MED ¹⁵	CR/S	750	115	6.5		
	CR/ASY	840	129			
	CR/BAT	800	123			
	CR/AG	720	111			
HI ¹⁵	CR/S	1020	116	8.8		
	CR/ASY	1150	131			
	CR/BAT	1100	125			
	CR/AG	980	111			
MAX ¹⁵	CR/S	1250	117	10.7		
	CR/ASY	1400	131			
	CR/BAT	1350	126			
	CR/AG	1200	112			
TUNE	CR/S	WW: 470, CW: 510	WW: 112, CW: 121	4.2/channel	90+	2700K - 6500K
	CR/ASY	WW: 530, CW: 570	WW: 126, CW: 136			
	CR/BAT	WW: 510, CW: 555	WW: 121, CW: 132			
	CR/AG	WW: 500, CW: 540	WW: 119, CW: 129			
RGB ¹⁶	CR/S	140	28	5	N/A	N/A
	CR/ASY	160	32			
	CR/BAT	150	30			
	CR/AG	150	30			
RGBW ¹⁷	CR/S	RGB: 140, W: 220	RGB: 28, W: 44	5	80+ (White Chip)	3500K (White Chip)
	CR/ASY	RGB: 160, W: 250	RGB: 32, W: 50			
	CR/BAT	RGB: 150, W: 240	RGB: 30, W: 48			
	CR/AG	RGB: 150, W: 230	RGB: 30, W: 46			

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.

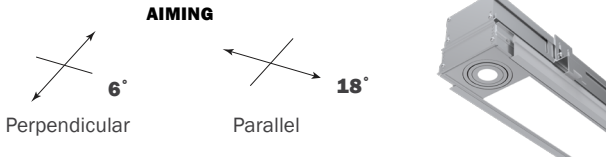
¹⁶Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue).

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



PERFORMANCE DETAILS CONT'D

SPOT	DELIVERED LUMENS (LM)	WATTS (W)	EFFICACY (LM/W)	CRI	CCT OPTIONS	BEAM SPREAD OPTIONS (DEGREES)
DL800	800	5.1	157	80 90	2700K 3000K 3500K 4000K	25 40
DL1000	1000	6.7	150			
DL1500	1500	10.5	143			



TM-30-18 DETAILS (90 CRI LAMPING)

CCT	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

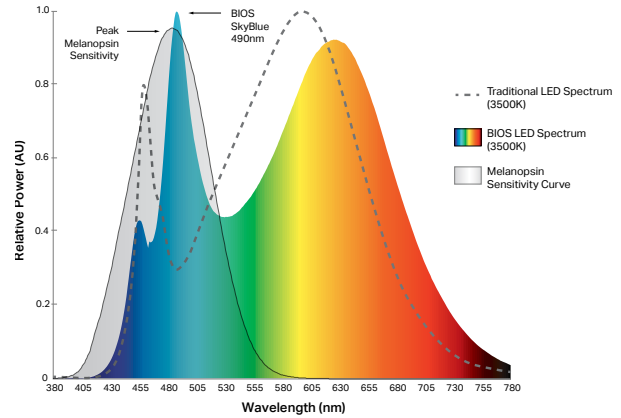


BIOS OVERVIEW



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 ¹⁸	DELIVERED LUMENS (LM/FT) CR/S CR/ASY CR/BAT CR/AG	EFFICACY (LM/W) CR/S CR/ASY CR/BAT CR/AG	WATTS (W/FT)	CRI
MIN	350	113	2.4	82+
	400	129		
	380	123		
	340	110		
LOW	475	113	3.4	
	540	129		
	525	125		
MED	460	110	5.5	
	750	115		
	840	129		
	800	123		
HI	720	111	7.5	
	1020	116		
	1150	131		
	1100	125		
MAX	980	111	9.2	
	1250	117		
	1400	131		
	1350	126		
	1200	112		

¹⁸Performance 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.

BIOS LED PERFORMANCE DETAILS

CCT	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

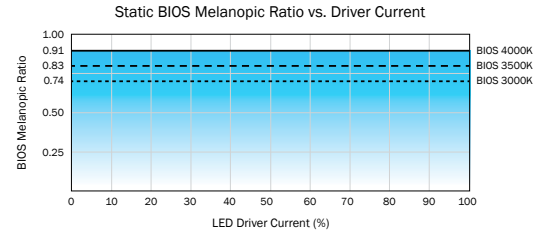
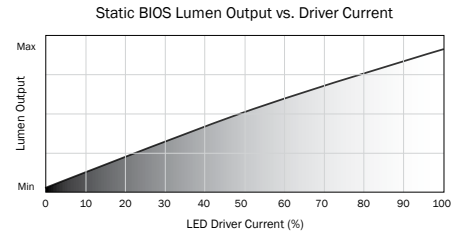
Rev 012325



BIOS STATIC DIMMING CONTROL CHARACTERISTICS

DIMMER SETTING	LIGHT OUTPUT* (BIOS SKYBLUE® + WHITE LED)		BIOS + White LED Intensity Dimming
100%* (Full On)	100%		
99% - 51%	Linear Dimming 99% - 51%		
50%	Linear Dimming 50%		
49% - 0%	Linear Dimming 49% - 0%		

BIOS SkyBlue® LED and White LED dim with a 1-to-1 ratio.



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

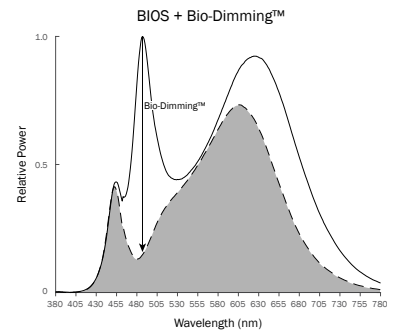
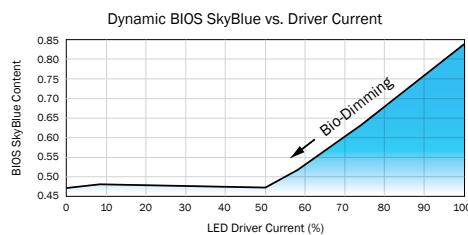
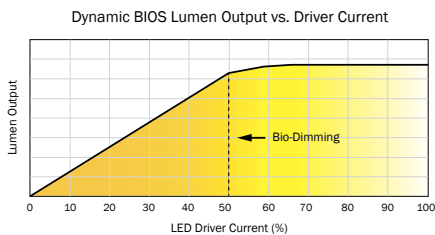
BIOS DYNAMIC + BIO-DIMMING™ DIMMING CONTROL CHARACTERISTICS

DIMMER SETTING	BIOS SKYBLUE® LED	WHITE LED	LIGHT OUTPUT	
100%* (Full On)	100%	100%	100%	Bio-Dimming
99% - 51%	100% - 0%	100%	100% - 90%	
50%	NO BIOS	100%	~90%	White LED Intensity Dimming
49% - 0%	NO BIOS	100% - 0%	Linear Dimming 90% - 0%	

BIOS SkyBlue® maintained for maximum circadian impact.
Light output remains relatively constant.

BIOS SkyBlue® removed to provide minimal circadian 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
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.
ELDV0	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 JAS/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 REQUEST			●	●
POEI			PER REQUEST			●	●
POEN			PER REQUEST			●	●

● - Indicates compatibility
*Standard lamping (STD) - MIN/LOW/MED/HI/MAX

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

²³ The 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.



PHOTOMETRICS

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 - 2.5 ft RECOMMENDED DISTANCE FROM WALL		1.14 1.24	1390.8	1400
CR/BAT		6 ft	20.9	1.22 1.64	861.3	1350
		8 ft	11.8			
		10 ft	7.5			
		12 ft	5.2			
		14 ft	3.8			
		16 ft	2.9			
CR/AG		6 ft	45.7	.74 1.12	1646.4	1200
		8 ft	25.7			
		10 ft	16.5			
		12 ft	11.4			
		14 ft	8.4			
		16 ft	6.4			
CR/S		6 ft	25.2	1.2 1.2	907.1	1250
		8 ft	14.2			
		10 ft	9.1			
		12 ft	6.3			
		14 ft	4.6			
		16 ft	3.5			

*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



ADDITIONAL OPTIONS & SPECIFICATIONS

LED PERFORMANCE

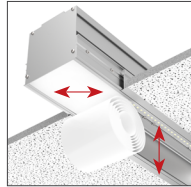
> 54,000 hours at 70% lumen maintenance, LM80 / TM-21

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.



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;G

WARRANTY

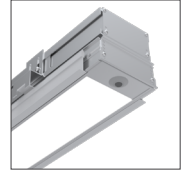
Limited 5-year warranty. Details: alw-inc.com/warranty

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.

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 7lbs. per linear foot (not including downlight option). Weight may vary depending on mounting, downlight, and additional options selected.

CHICAGO PLENUM

Recessed fixtures for this product family are available to meet Chicago Plenum certification.