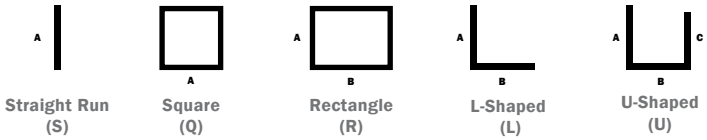
LIGHTPLANE+ 4

LPX4 | SUSPENDED, WALL, SURFACE

SPECIFICATIONS

PROFILE	4" Aperture, 4" height
SIZES	Individual/Straight Run sections starting at 2ft. Continuous runs & shapes
LED OUTPUT	Linear: 350lm/ft - 1,500lm/ft, up to 169 lm/W Downlights: 350 - 1,000lm per unit, up to 153 lm/W
CCT/CRI	2700K/3000K/3500K/4000K/5000K • 80 or 90+ CRI Tunable White (2700K – 6500K) • RGB and RGB+W
DIMMING/ DRIVER	Integral and Remote Driver: 0-10V, Phase, DALI, DMX, eldoLED, Lutron®, PoE (Molex, NuLEDS, WTEC Smartengine). Dimming to 0% for select models.
EMBEDDED CONTROLS	Acuity nLight, Avi-on, Casambi, Cooper Wavelinx, Encelium, Enlighted, Lutron Athena, Lutron Vive, NX Controls, Wattstopper, and more.
POWER	Linear: 3W - 11W per ft Downlights: 3.8 - 6.5W per unit
INPUT	120VAC, 277VAC, or 347VAC
OPTICS	**Direct/Indirect:** Lambertian, Low Glare (UGR < 16), Asymmetric ControlRoll, Widespread ControlRoll **Indirect only:** Over optic, Batwing Downlights: 25°and 40° beam shaping optics
LENS	Standard Snap-in & ControlRoll Flush, Regressed, Reveal
FINISHES	16 powder coat finishes - Custom finishes also available
MATERIAL	6063-T6 Extruded Aluminum, See Declare listing here
ENVIRONMENT	Dry or damp locations
WARRANTY	11 years
WELL/UGR	See ALW WELL and BIOS pages for recommended options that contribute to meeting the WELL Building Standard™

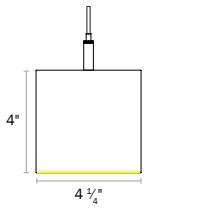
DISTRIBUTIONS & PROFILES

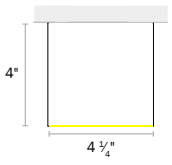


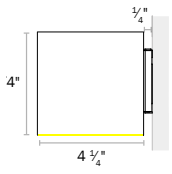
DISTRIBUTION

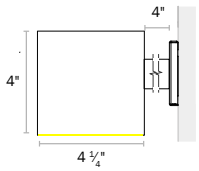
LENS

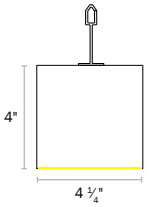
PROFILES

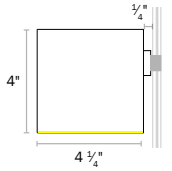












Not to scale. Dimensions are nominal. Consult factory for CAD drawing

QuickShip · cULus LISTED · PoE Ready · bios ILLUMINATED · Declare.

PRODUCT SPECIFICATION SHEET

LPX 4 — — — — / — — — — —
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

— —DC—
30 31 32 33

EXAMPLE: LPX4BSPFO — S8 — 053090SLV00 — 053090SLV00 — D35359025HL/3V00 — SG — B04 — 1C — UNV — EMC/2 — N — N — DC — QS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33

1. FAMILY

QS ■ **LPX** Lightplane+

2. SIZE

QS ☑ **4** 4”

3. MODEL (CHOOSE 1)

QS ☐ **D** Direct only
QS ☐ **I** Indirect only
QS ☐ **B** Bidirectional

*Total fixture body height varies based on lens and model type combinations. Refer to ‘Total Body Height Dimensions” table on page 6 for exact dimensions.

4. MOUNTING (CHOOSE 1)

QS ☐ **SP** Suspended
QS ☐ **SM**[1] Surface Mount
QS ☐ **WM** Wall Mount
☐ **AR** Arm Mount
☐ **MM** Mullion Mount
☐ **TB**[1] T-Bar (Mounts to bottom of T-Grid)

[1]Direct (D) model only

5. LENS TYPE - DIRECT (CHOOSE 1)

QS ☐ **N** Choose for Indirect Only
QS ☐ **F** Flush Lens
☐ **R** Regress Lens (3/4”)
☐ **V** Reveal Lens (1/2” Drop)
☐ **C** ControlRoll Flush Lens*
*Select for Widespread & Asymmetric Optics

6. LENS TYPE - INDIRECT (CHOOSE 1)

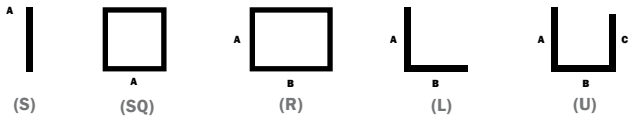
QS ☐ **N** Choose for Direct Only
QS ☐ **O** Over Optic
QS ☐ **V** Reveal Lens (1/2” Rise)

7. SHAPE/LENGTH* (CHOOSE 1 & ENTER LENGTH IN FEET) - FOR CUSTOM ANGLES, CONTACT ALW

QS ☐ **S__** Individual/Straight Run Section *(enter length in product code above, ex. S18)*
QS ☐ **Q__** Square Configuration *(enter side length A, ex: Q18)*
QS ☐ **R__/__** Rectangular Configuration *(enter side lengths A and B, ex. R12/24)*
☐ **L__/__** L-Shaped Configuration *(enter side lengths A and B, ex. L12/24)*
☐ **U__/__/__** U-Shaped Configuration *(enter side lengths A, B, and C, ex. U12/12/24)*

*To qualify for QS, all corners of shape must be 90°, same plane

*Lengths greater than 8’ consist of multiple individual housing sections joined together. Lengths are nominal and may vary based on lamping and other specification selections. Consult ALW when exact lengths are required.



(S) (SQ) (R) (L) (U)

Shape orientation (Looking from the Ceiling down to the floor).

8. LUMENS - DIRECT* (CHOOSE 1)

QS ☐ **N** No Direct Lighting
QS ☐ **03** 350lm/ft
QS ☐ **05** 500lm/ft
QS ☐ **07** 750lm/ft
QS ☐ **10** 1000lm/ft
QS ☐ **12** 1200lm/ft
☐ **15**[2] 1500lm/ft
☐ **RB** RGB
☐ **RW** RGB + 3500K White, 80CRI
☐ **BS/____**[3] BIOS Static, 80CRI
☐ **BD/____**[3] BIOS Dynamic, 80CRI
☐ **CM/____**[4] Custom Lumens. *Write in your lumens/ft (ex: 0100 = 100lm/ft).*

*For delivered lumens and watts, see ‘Performance Details’
[2]1500lm/ft option only available with Control Roll lenses
[3]Write in desired lm/ft. Static BIOS SkyBlue® 490nm LED is always on. Dynamic BIOS SkyBlue® 490nm LED can be tuned out with most LED driver/dimmer combinations.
[4]Custom lumens available from 100 - 1500lm/ft

9. CCT - DIRECT (CHOOSE 1)

QS ☐ **N** Choose for RB, RW, BO, or no Direct lighting
☐ **27**[5] 2700K
QS ☐ **30** 3000K
QS ☐ **35** 3500K
QS ☐ **40** 4000K
☐ **50**[6] 5000K
☐ **TW**[7] Tunable White, 90CRI, 2700K - 6500K

[5]2700K only available in 90CRI
[6]5000K only available in 80CRI
[7]Tunable White (TW) not available with BIOS. BIOS has its own tunable white option to be specified by request.

10. CRI - DIRECT (CHOOSE 1)

QS ☐ **N** Choose for RB, RW, TW or no Direct Lighting
QS ☐ **80** 80
QS ☐ **90** 90

11. OPTICS - DIRECT* (CHOOSE 1)

QS ☐ **N** No Direct Lighting
QS ☐ **SL**[8] Standard Lambertian
QS ☐ **LG**[8] Low Glare
CONTROLROLL LENS ONLY
☐ **AL**[9] Asymmetric Left (outside of shape)
☐ **AR**[9] Asymmetric Right (inside of shape)
☐ **WS** Widespread

*See LEED + WELL guide for optic/output combos that fall under standard UGR and intensity levels
[8]Regress (R) lens is only available with Low Glare (LG) and Standard Lambertian (SL) lens types. See page 5 for LED Optics Compatibility
[9]See page 5 for explanation of Asymmetric lens specification


SL LG AL AR WS

12. DRIVER - DIRECT* (CHOOSE 1)

QS ☐ **N** None
QS ☐ **V00** 0-10V, dim to 0%
☐ **V01** 0-10V, dim to 1%
☐ **LDE** Lutron LDE1 Ecosystem, dim to 1%
☐ **P01**[10] ELV/TRIAC phase dim to 1%
☐ **TSE**[11] Lutron T-Series Driver
☐ **ELO** eldoLED, 0-10V dim to 0%
☐ **DAL** DALI, dim to 0%
☐ **DMX**[12] DMX, dim to 0%
☐ **POE**[13] POE Ready
☐ **CM**[14] Custom driver

*See ‘Driver’ and lamping charts for driver details
[10]Phase dim drivers are 120 VAC only
[11]For Tunable White (TW) CCT only
[12]DMX option is only Declare classified, not Red List Free
[13]Contact ALW with the PoE spec details
[14]Contact ALW for custom driver specifications

13. LUMENS - INDIRECT* (CHOOSE 1)

QS ☐ **N** No Indirect Lighting
QS ☐ **03** 350lm/ft
QS ☐ **05** 500lm/ft
QS ☐ **07** 750lm/ft
QS ☐ **10** 1000lm/ft
QS ☐ **12** 1200lm/ft
☐ **RB** RGB
☐ **RW** RGB + 3500K White, 80CRI
☐ **BS/____**[15] BIOS Static, 80CRI
☐ **BD/____**[15] BIOS Dynamic, 80CRI
☐ **CM/____**[16] Custom Lumens. *Write in your lumens/ft (ex: 0100 = 100lm/ft).*

*For delivered lumens and watts, see ‘Performance Details’
[15]Write in desired lm/ft. Static BIOS SkyBlue® 490nm LED is always on. Dynamic BIOS SkyBlue® 490nm LED can be tuned out with most LED driver/dimmer combinations.
[16]Custom lumens available from 100 - 1200lm/ft

14. CCT - INDIRECT (CHOOSE 1)

QS ☐ **N** Choose for RB, RW, BO, or no Indirect Lighting
☐ **27**[17] 2700K
QS ☐ **30** 3000K
QS ☐ **35** 3500K
QS ☐ **40** 4000K
☐ **50**[18] 5000K
☐ **TW**[19] Tunable White, 90CRI, 2700K - 6500K

[17]2700K only available in 90CRI
[18]5000K only available in 80CRI
[19]Tunable White (TW) not available with BIOS. BIOS has its own tunable white option to be specified by request.

15. CRI - INDIRECT (CHOOSE 1)

QS ☐ **N** Choose for RB, RW, TW, or no Indirect lighting
QS ☐ **80** 80
QS ☐ **90** 90

16. OPTICS - INDIRECT (CHOOSE 1)

QS ☐ **N** No Indirect Lighting
QS ☐ **SL** Standard Lambertian
QS ☐ **AL**[20] Asymmetric Left (outside of shape)
QS ☐ **AR**[20] Asymmetric Right (inside of shape)
QS ☐ **BW** Batwing
QS ☐ **WS** Widespread

[20]See page 5 for explanation of Asymmetric lens specification


SL AL AR BW WS

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.

Rev 031225

PRODUCT SPECIFICATION SHEET CONT'D

17. DRIVER - INDIRECT* (CHOOSE 1)

QS ☐ **N** None
QS ☐ **V00** 0-10V, dim to 0%
☐ **V01** 0-10V, dim to 1%
☐ **LDE** Lutron LDE1 Ecosystem, dim to 1%
☐ **P01**[21] ELV/TRIAC phase dim to 1%
☐ **TSE**[22] Lutron T-Series Driver
☐ **EL0** eldoLED, 0-10V dim to 0%
☐ **DAL** DALI, dim to 0%
☐ **DMX**[23] DMX, dim to 0%
☐ **POE**[24] POE Ready
☐ **CM**[25] Custom driver

*See 'Driver' and lamping charts for driver details
[21]Phase dim drivers are 120 VAC only
[22]For Tunable White (TW) CCT only
[23]DMX option is only Declare classified, not Red List Free
[24]Contact ALW with the POE spec details
[25]Contact ALW for custom driver specifications

18. LUMENS - DOWNLIGHT* (CHOOSE 1)

QS ☐ **N** None. Select when downlight lamping is not desired.
☐ **DL35** 350lm
☐ **DL50** 500lm
☐ **DL75** 750lm
☐ **DL10** 1000lm

*All downlights will be wired to one circuit
**Downlights are not available in BIOS options as the COB is too large to fit in downlight housing
***If Direct linear lamping is not selected, lens will be replace with Aluminum lid between Downlights.

19. CCT - DOWNLIGHT (CHOOSE 1)

QS ☐ **N** None. Select when downlight lamping is not desired.
☐ **27** 2700K
☐ **30** 3000K
☐ **35** 3500K
☐ **40** 4000K
☐ **50** 5000K

20. CRI - DOWNLIGHT (CHOOSE 1)

QS ☐ **N** None. Select when downlight lamping is not desired.
☐ **80** 80 CRI
☐ **90** 90 CRI

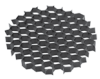
21. OPTICS - DOWNLIGHT (CHOOSE 1)

QS ☐ **N** None. Select when downlight lamping is not desired.
☐ **25** 25°
☐ **40** 40°

PERPENDICULAR PARALLEL

22. ACCESSORY - DOWNLIGHT (CHOOSE 1)

QS ☐ **NN** (Blank. When selected output is none)
☐ **HL** Honeycomb Louver
☐ **ST** Snoot
☐ **HS** Honeycomb Louver + Snoot



HONEYCOMB LOUVER

SNOOT

23. QUANTITY - DOWNLIGHT (CHOOSE 1)

QS ☐ **N** None. Select when downlight lamping not desired.
☐ **/__** 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.)Louver + Snoot

24. DRIVER - DOWNLIGHT* (CHOOSE 1)

QS ☐ **N** None
QS ☐ **V00** 0-10V, dim to 0%
☐ **V01** 0-10V, dim to 1%
☐ **LDE** Lutron LDE1 Ecosystem, dim to 1%
☐ **P01**[26] ELV/TRIAC phase dim to 1%
☐ **EL0** eldoLED, 0-10V dim to 0%
☐ **DAL** DALI, dim to 0%
☐ **DMX**[27] DMX, dim to 0%
☐ **POE**[28] POE Ready
☐ **CM**[29] Custom driver

*See 'Driver' and lamping charts for driver details
[26]Phase dim drivers are 120 VAC only
[27]DMX option is only Declare classified, not Red List Free
[28]Contact ALW with the PoE spec details
[29]Contact ALW for custom driver specifications

25. FINISH* (CHOOSE 1)

STANDARD FINISHES

QS ☐ **SW** Satin White
QS ☐ **SB** Satin Black
QS ☐ **AS** Aluminum Silver Anodized Effect
QS ☐ **TB** Textured Black

PREMIUM FINISHES

☐ **__** See chart on page 8 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze)

SPECIAL ORDER FINISHES*

☐ **RAL____** Specify RAL Classic Color (Ex: RAL 3003)
☐ **CCM____** Specify Catalog Colors Custom Color Match

*Manually type in the finish code for special order finishes types

26. MOUNTING DETAILS (CHOOSE 1)

QS ☐ **N** None. Choose for SM, WM, MM, AR & TM
QS ☐ **B04**[30] Black Cord, 4ft
QS ☐ **W04**[30] White Cord, 4ft
QS ☐ **B16**[30] Black Cord, 16ft
QS ☐ **W16**[30] White Cord, 16ft
☐ **C04** Clear Braided Cord, 4ft
☐ **C16** Clear Braided Cord, 16ft
☐ **RS__**[31] Rigid Stem, choose length

[30]Black Cords Red List Approved, White Cords Declared
[31]Rigid Stem (RS) length limit 1 - 8ft, 1ft increments

27. CONTROL TYPE*

QS ☐ **1C** Single Control
(Choose for Direct, Indirect, or Bidirectional illumination. D+I controlled together for Bidirectional)
QS ☐ **2C** Independent Control
(Choose for Bidirectional illumination. D & I controlled independently)

*Contact ALW for adding additional zones, separated zones/circuits, etc

28. VOLTAGE (CHOOSE 1)

QS ☐ **UNV** Universal Voltage (120VAC-277VAC)
☐ **347** 347 Volt *(Driver options may be limited. Not available with EMB)*

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

29. EMERGENCY CIRCUITS (OPTIONAL)

QS ☐ **N** None

QS ☐ **EMC/__**[32] Emergency power feed whip for connection to remote Generator Transfer Devices *(Specify 1x for every 4ft or contact ALW for longer runs)*

QS ☐ **EMB/__** 10W Integral Emergency Battery *(Specify 1x for every 4ft of emergency lighting)*

☐ **GTD/__** Integral Generator Transfer *Device/Switch Bypass - 3A (Specify 1x for every 4ft)*

☐ **ALC/__** Integral Automated Load Control Relay - 10A *(Specify 1x for every 4ft or contact ALW for longer runs)*

*Emergency Battery options are direct lighting only

[32] No EM components provided. Choose None when designating entire fixture for EMC. When 4ft EMC sections are chosen, the power whip will be labeled as an EMC whip.

30. CONTROL OPTIONS* (OPTIONAL)

QS ☐ **N** None

FACTORY CONTROLS

QS ☐ **OS/PH/INT/__** Integral Occupancy/ Daylight sensor

QS ☐ **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

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

*Contact ALW for Additional Zone specifications

31. ADDITIONAL OPTIONS - A (OPTIONAL)

QS ☐ **N** None

☐ **SB** Seismic Bracing
(Suspended mount, non-stem only)

32. ADDITIONAL OPTIONS - B* (INCLUDED)

QS ■ **DC** Living Building Challenge Declared or Red List Approved

*See Declare page for LP+ Declare listing

33. 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

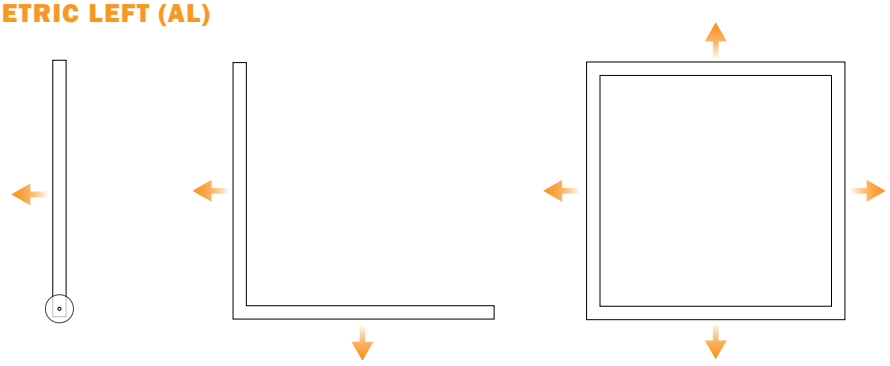
QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, ALL options specified in the configuration must be ones notated with "QS". NOTE: Maximum 800 ft. of QuickShip-eligible product per order.

Rev 031225

LENS & OPTICS

		OPTICS				
		STANDARD LAMBERTIAN (SL)	LOW GLARE (LG)	ASYMMETRIC (AL, AR)	WIDESPREAD (WS)	BATWING (BAT)
LENS TYPES	FLUSH (F)	●	●			
	CONTROLROLL FLUSH (C)	●	●	●	●	
	REGRESSED (R)	●	●			
	REVEAL (V)	●				
	OVER OPTIC — INDIRECT (O)	●	●	●	●	●

ASYMMETRIC LEFT (AL)

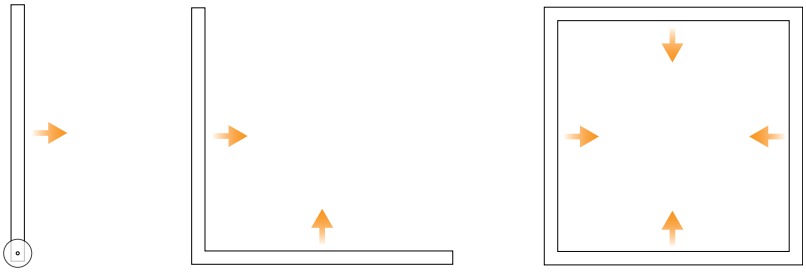


Straight Sections
Light is thrown to left of the powerfeed

Shapes
Light is thrown outside the shape

Note: For unique applications, mark up the submittal drawings for desired asymmetric light throw.

ASYMMETRIC RIGHT (AR)

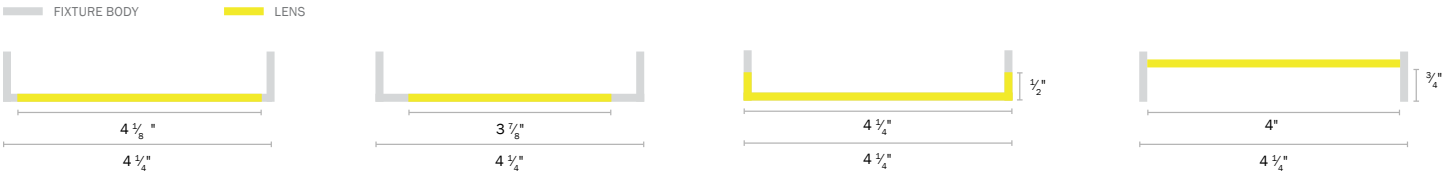


Straight Sections
Light is thrown to right of the powerfeed

Shapes
Light is thrown inside the shape

LENS DETAILS

Applicable to all models



F
FLUSH

C
CONTROLROLL FLUSH

V
REVEAL LENS

R
REGRESS LENS

BODY DIMENSIONS

Total fixture body height (H) will vary based on Model and Lens Type combination. Use table below to configure the correct dimensions for your desired specification.

MODEL

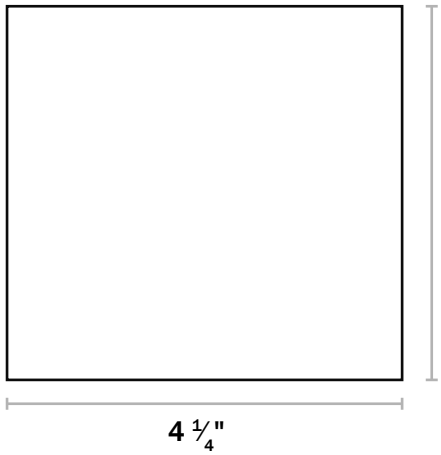
- **I** Indirect Only
- **D** Direct Only
- **B** Bidirectional

LENS TYPE

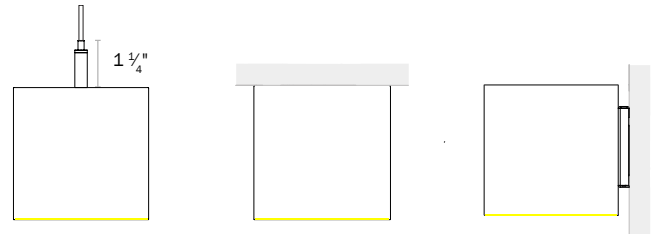
- **N** None
- **F** Flush
- **R** Regress
- **C** ControlRoll Flush
- **V** Reveal
- **O** Over Optic

MODEL	Direct	Indirect	Direct/ Indirect	Body Height (H)
I	N	O	N/O	4.27
I	N	V	N/V	4.77
D	F	N	F/N	4.17
D	R	N	R/N	4.92
D	C	N	C/N	4.17
D	V	N	V/N	4.67
B	F	N	F/N	4.27
B	F	O	F/O	4.27
B	F	V	F/V	4.77
B	R	N	R/N	5
B	R	O	R/O	5
B	R	V	R/V	5.5
B	V	N	V/N	4.77
B	V	O	V/O	4.77
B	V	V	V/V	5.27
B	C	N	C/N	4.27
B	C	O	C/O	4.27
B	C	V	C/V	4.67

MOUNTING DETAILS



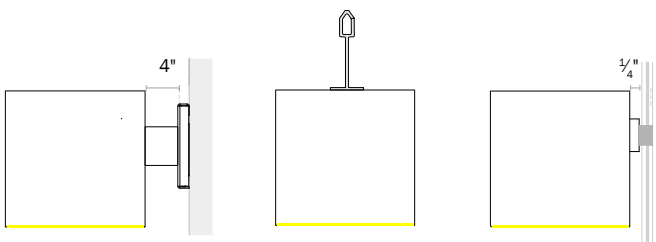
H”
Total fixture body height varies based on lens and model type combination. Refer to table on the left for exact dimensions.



SP
SUSPENDED

SM
SURFACE MOUNT

WM
WALL MOUNT

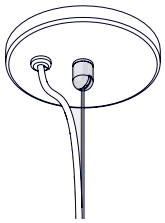


AR
WALL ARM MOUNT

TB
T-GRID BAR MOUNT

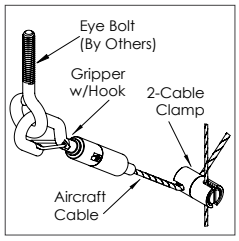
MM
MULLION MOUNT

SUSPENSION MOUNTING OPTIONS



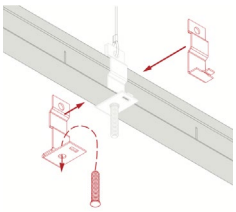
INCLUDED CEILING HARDWARE

- 4.5" canopy per power feed location. Canopy finish is always white. Contact ALW for alternate colors
- 2” canopy per non-powered suspension point
- 4’ or 16’ aircraft cable specifiable (or rigid stem length as specified)
- Bullet mount



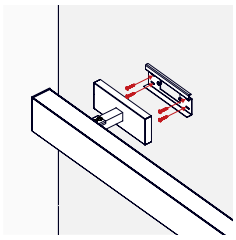
SEISMIC BRACING (SB)

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



T-BAR MOUNTING HARDWARE

T-bar caddy clips provided to fit most 9/16” or 15/16” support beams



WALL-ARM MOUNTING HARDWARE

Provided Canopy for 2”x4” J-box and non-powered arm-mount locations locations

FINISHES

Standard finishes are available at no additional charge.

STANDARD FINISHES - QS ELIGIBLE

SW	AS	SB	TB
Satin White QS	Aluminum Silver Anodized Effect QS	Satin Black QS	Textured Black QS

PREMIUM FINISHES

BASIC POWDER COAT

GW	AW	TW
Gloss White	Antimicrobial Gloss White	Textured Matte White

METALLIC POWDER COAT

CG	CU	BR
Charcoal Gray	Copper	Brass

SATIN ANODIZED EFFECT POWDER COAT

OB	DB
Oil-Rubbed Bronze	Dark Bronze

GLOSS POWDER COAT (80-95% GLOSS)

GO	GR	GM	GB
Orange RAL 2003	Red RAL 3020	Magenta RAL 4010	Blue RAL 5015

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 - STANDARD LENSES

OUTPUT OPTION	OPTIC TYPE	DELIVERED LUMENS/FT *DIRECT*	DELIVERED LUMENS/FT *INDIRECT*	EFFICACY (LM/W) *DIRECT*	EFFICACY (LM/W) *INDIRECT*	WATTS/FT[32] *DIRECT/ INDIRECT*	CRI OPTIONS	CCT OPTIONS
03[33]	SL	364	348	121	169	3 2.1	80+ 90+	2700K 3000K 3500K 4000K 5000K
	V	376	260	125	126			
	BAT	N/A	363	N/A	176			
	WS	N/A	372	N/A	181			
	LG	463	N/A	154	N/A			
	SL (Regress)	390	N/A	130	N/A			
	LG (Regress)	373	N/A	124	N/A			
05[33]	SL	519	503	119	167	4.4 3		
	V	535	376	123	125			
	BAT	N/A	524	N/A	174			
	WS	N/A	538	N/A	179			
	LG	659	N/A	152	N/A			
	SL (Regress)	555	N/A	128	N/A			
	LG (Regress)	530	N/A	122	N/A			
07[33]	SL	776	716	124	165	6.3 4.4		
	V	801	535	128	123			
	BAT	N/A	746	N/A	172			
	WS	N/A	766	N/A	176			
	LG	985	N/A	157	N/A			
	SL (Regress)	830	N/A	132	N/A			
	LG (Regress)	793	N/A	127	N/A			
10[33]	SL	1024	1013	114	162	9 6.3		
	V	1056	757	117	121			
	BAT	N/A	1055	N/A	168			
	WS	N/A	1083	N/A	173			
	LG	1300	N/A	144	N/A			
	SL (Regress)	1095	N/A	122	N/A			
	LG (Regress)	1047	N/A	116	N/A			

[32] *Lumens/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%.*

[33] *Performance calculations are based on LM-79 test of 1200lm output at 80 CRI and 3500K. All other output calculations are extrapolated values.*

PERFORMANCE DETAILS - STANDARD LENSES CONT'D

OUTPUT OPTION	OPTIC TYPE	DELIVERED LUMENS/FT *DIRECT*	DELIVERED LUMENS/FT *INDIRECT*	EFFICACY (LM/W) *DIRECT*	EFFICACY (LM/W) *INDIRECT*	WATTS/FT[32] *DIRECT/ INDIRECT*	CRI OPTIONS	CCT OPTIONS
12[33]	SL	1223	1216	111	159	11 7.7	80+ 90+	2700K 3000K 3500K 4000K 5000K
	V	1262	908	115	119			
	BAT	N/A	1266	N/A	166			
	WS	N/A	1300	N/A	170			
	LG	1553	N/A	142	N/A			
	SL (Regress)	1309	N/A	119	N/A			
	LG (Regress)	1250	N/A	114	N/A			
TUNE	SL (Warm White)	921	1142	65	80	14.2	90	2700K - 6500K
	SL (Cool White)	977	1211	69	85			
RGB[34]	SL	184	228	39	49	4.7	N/A	
RGBW[34]	SL	W: 177 RGB: 184	W: 177 RGB: 184	53	66	6.8	W: 80 CRI	W: 3500K

[32] *Lumens/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%.*
[33] *Performance calculations are based on LM-79 test of 1200lm output at 80 CRI and 3500K. All other output calculations are extrapolated values.*
[34] *Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue) and White LED only illuminated*

PERFORMANCE DETAILS - CONTROLROLL

OUTPUT OPTION	OPTIC TYPE	DELIVERED LUMENS/FT	EFFICACY (LM/W)	WATTS/FT[35]	CRI OPTIONS	CCT OPTIONS
03[36]	SL	373	151	2.5	80+ 90+	2700K 3000K 3500K 4000K 5000K
	WS	420	170			
	AL	423	171			
	LG	419	170			
05[36]	SL	512	150	3.4		
	WS	577	169			
	AL	582	170			
	LG	576	168			
07[36]	SL	759	148	5.1		
	WS	855	167			
	AL	862	168			
	LG	853	166			
10[36]	SL	1025	146	7		
	WS	1155	164			
	AL	1165	166			
	LG	1153	164			
12[36]	SL	1207	144	8.4		
	WS	1360	163			
	AL	1371	164			
	LG	1356	162			
15[36]	SL	1533	142	10.8		
	WS	1727	159			
	AL	1741	161			
	LG	1723	159			
TUNE	SL (Warm White)	1154	81	14.2	90	2700K - 6500K
	SL (Cool White)	1224	86			
RGB[37]	SL	231	49	4.7	N/A	
RGBW[37]	SL	231	34	6.8	W: 80 CRI	W: 3500K

[35] *Lumens/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%.*

[36] *Performance calculations are based on LM-79 test of 600lm output at 80 CRI and 3500K. All other output calculations are extrapolated values.*

[37] *Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue) and White LED only illuminated*

PERFORMANCE DETAILS - ACCENT/DOWNLIGHT LAMPING

SPOT	DELIVERED LUMENS (LM)	WATTS (W)	EFFICACY (LM/W)	CRI	CCT OPTIONS	BEAM SPREAD OPTIONS (DEGREES)
DL35	350	3.8	92	80 90	2700K 3000K 3500K 4000K	25 40
DL50	500	4.3	116			
DL75	750	5.3	142			
DL10	1000	6.5	154			

Perpendicular

Parallel

TM-30-18 DETAILS (90 CRI LAMPING)

CCT	CRI (Ra)	CRI (R9)	TM-30 Rf	TM-30 Rg	Duv
2700K	94	56	92	100	-0.0009
3000K	94	59	92	100	-0.0013
3500K	94	64	92	100	-0.0005
4000K	94	66	92	100	-0.0004

DRIVERS

PRODUCT CODE	DESCRIPTION
V00	0-10V dimming down to 1% with electronic dim-to-off (0%).
V01	0-10V dimming down to 1%.
LDE	Lutron Hi-lume (LDE1) 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.
P01	TRIAC Forward Phase 2-Wire and ELV Reverse Phase 3-Wire hybrid LED driver. Dimming down to 1%. 120VAC only.
EL0	EldoLED 0-10V SOLODrive 0.1% dimming with electronic dim-to-off (0%).
TSE	Lutron T-Series (PSQ0) 1% 2-channel tunable white driver (For use with Lutron Quantum Control Systems).
DAL	DALI flicker-free dimming down to 1% with electronic dim-to-off (0%).
DMX	DMX flicker-free dimming down to 0%.
POE/READY	Specify a PoE driver of your choice. Fixture supplied with low voltage leads and no LED driver. Contact ALW to register 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 to specify a compatible solution of your choice.

DRIVER/LED LAMPING COMPATIBILITY						
	STD	STD/BIOS	TUNE*	RGB OR RGBW	CA TITLE 24 JA8/JA10[39]	IEEE P1789 & HD TV STUDIO[40]
V00	●	●	●		●	
V01	●	●	●		●	
LDE	●	●			●	●
P01	●	●			●	
EL0	●	●	●		●	●
TSE			●		●	●
DALI	●	●	●		●	
DMX	●	●	●	●	PER REQUEST	PER REQUEST
POE/READY	PER REQUEST					

*ELO with TUNE Lamping will include an EldoLED DUALDrive 0-10V Tunable White LED Driver.

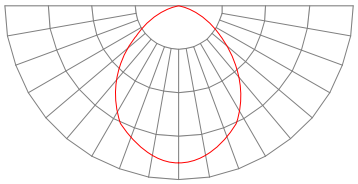
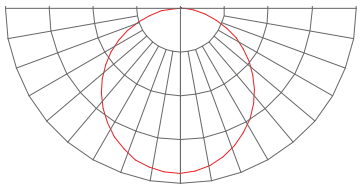
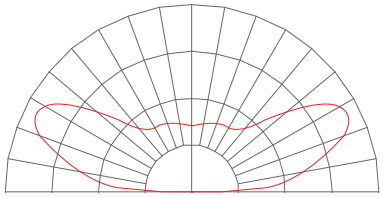
● - Indicates compatibility

*Standard lamping (STD) - 350 - 1500 lm/ft

[39] Fixtures specified with 90CRI 2700K, 3000K, 3500K, 4000K. and 5000K lamping with applicable LED drivers have the ability to conform to California Title 24 JA8 and JA10 Appendices

[40] 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 - STANDARD LENSES

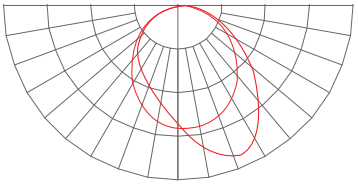
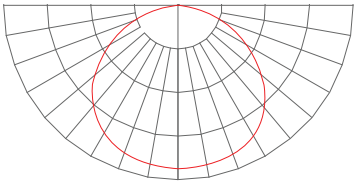
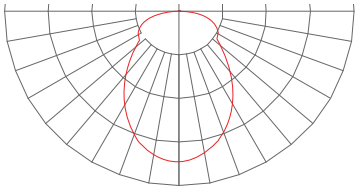
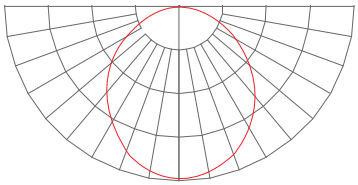
OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC)[41] (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
LG		6 ft	17.4	1.24 1.20	605.8	1553
		8 ft	9.8			
		10 ft	6.3			
		12 ft	4.4			
		14 ft	3.2			
		16 ft	2.5			
SL		6 ft	11.7	1.26 1.28	419.8	1223
		8 ft	6.6			
		10 ft	4.2			
		12 ft	2.9			
		14 ft	2.1			
		16 ft	1.6			
BW[42]		2 ft	44	2.36 1.26	458.3	1230
		3 ft	19.6			
		4 ft	11.0			
		5 ft	7			
		10 ft	1.8			

*Photometric calculations based on 1200lm 3500K 80 CRI fixture combination. Actual results may vary in the field.
For footcandle and output multipliers refer to the ALW Lightplane+ IES File Multipliers Chart

[41]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).

[42]BW mounting height for BW refers to *distance from ceiling* since Batwing optic is only offered in indirect output

PHOTOMETRICS - CONTROLROLL

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC)[43] (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
AL		6 ft	18.1	1.2 1.48	873.3	1741
		8 ft	10.2			
		10 ft	6.5			
		12 ft	4.5			
		14 ft	3.3			
		16 ft	2.5			
WS		6 ft	15.7	1.44 1.2	567.8	1727
		8 ft	8.8			
		10 ft	5.7			
		12 ft	3.9			
		14 ft	2.9			
		16 ft	2.2			
LG		6 ft	22.3	1.14 1.14	801.4	1723
		8 ft	12.5			
		10 ft	8			
		12 ft	5.6			
		14 ft	4.1			
		16 ft	3.1			
SL		6 ft	15.6	1.24 1.22	563.3	1533
		8 ft	8.8			
		10 ft	5.6			
		12 ft	3.9			
		14 ft	2.9			
		16 ft	2.2			

*Photometric calculations based on 1ft length, 1500lm, 3500K, 80 CRI fixture combination. Actual results may vary in the field.
For footcandle and output multipliers refer to the ALW Lightplane+ IES File Multipliers Chart

[43]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

80 CRI | L70 Calculated Hours: 180,000hrs
L80 Calculated Hours: 119,000hrs

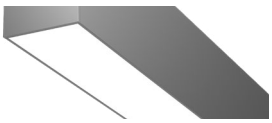
90 CRI | L70 Calculated Hours: 171,000hrs
L80 Calculated Hours: 108,000hrs

HOUSING

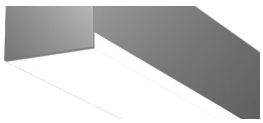
100% recyclable, extruded architectural grade 6063 aluminum with a 0.09" minimum wall thickness.

LENS & OPTICS

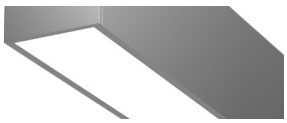
ALW offers four different lens types: Flush, ControlRoll Flush, Reveal and Regressed. A wide range of optics are available including, Lamberian, Asymmetric, Low Glare, and Widespread. See page 5 for the Lens & Optics Compatibility chart.



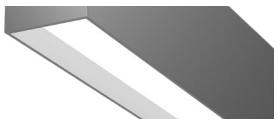
F
STANDARD FLUSH



V
REVEAL



C
CONTROL ROLL FLUSH



R
REGRESSED

The optically engineered ControlRoll lens provides smooth, uniform, and seamless illumination for linear lengths of 250' to eliminated lens gaps. ControlRoll lens rolls out and presses into the housing channel for easy installation.

SAFETY & REGULATORY

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.

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 and Lutron conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers.

DECLARE

All LightPlane+ models are Declared and Red List Approved. Declare Label is a comprehensive product transparency platform designed to empower manufacturers, designers, and consumers with detailed information about the ingredients and environmental impact of building products. Managed by the International Living Future Institute (ILFI), the platform provides a standardized "nutrition label" for products, disclosing material content, sourcing details, and the end-of-life potential. This initiative supports the Living Building Challenge by promoting sustainable and healthy materials, facilitating informed choices in the architecture and construction industries, and fostering transparency and accountability in the manufacturing process.

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.

WEIGHT

Approximately 3lbs. per linear foot. Weight may vary depending on additional options selected.

EMERGENCY OPTIONS

Emergency options are available for various applications including 10W Emergency Batteries (EMB), EMC circuits (EMC), Generator Transfer Devices (GTD), and Automated Load Control Relays (ALC). Contact ALW for emergency component spec sheets.

EMBEDDED CONTROLS, SENSORS, & OEM COMPONENTS

ALW lighting fixtures are intended for use with a wide range of embedded OEM components (control devices, occupancy and photocell sensors, LED drivers) for use with specified building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs.

ALW is your embedded controls partner, supporting integration with Acuity, Avi-on, Casambi, Cooper Wavelinx, Encelium, Enlighted, Lutron, NX Controls, Wattstopper, eldoLED, Philips, Molex PoE, NuLEDs PoE, WTEC Smartengine PoE, and more. If there's a component or system required that you don't see on the spec sheet please contact ALW customer support today so we can review your requirements.