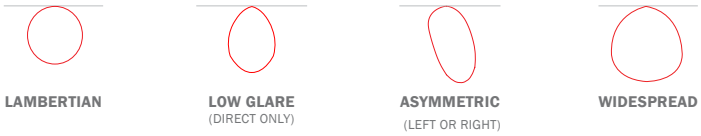
LIGHTPLANE+ 2R

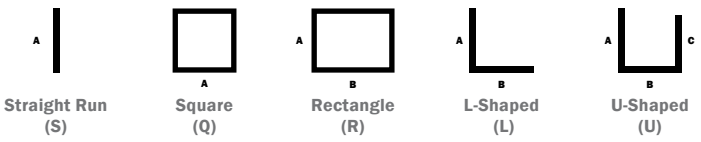
LPX2R | RECESSED

SPECIFICATIONS

PROFILE	2 1/8" Aperture, 3 3/16" height (Shortest height listed above. See mechanical diagrams for other heights)
LENGTHS	Build-to-Order: Individual/Continuous Lengths Shapes/Patterns
LED OUTPUT	350lm/ft - 1,500lm/ft, up to 169 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, Lutron Athena, Lutron Vive, NX Controls, Wattstopper, and more
POWER	3W - 12.2W per ft
INPUT	120VAC, 277VAC, or 347VAC
OPTICS	Lambertian Low Glare, Asymmetric, Widespread
LENS	Standard press fit lens in Flush, Regressed, and Reveal. ControlRoll continuous lenses in Flush
FINISHES	16 powder coat finishes. RAL and 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 & BIOS pages for recommended options that contribute to meeting the WELL Building Standard™

DISTRIBUTIONS & PROFILES



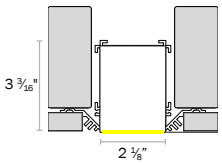


LENS

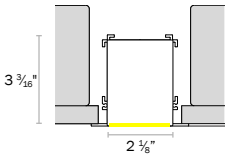
Flush

Regress
3/4"

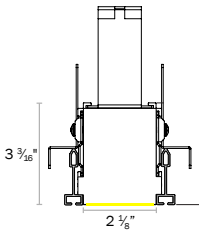
PROFILES



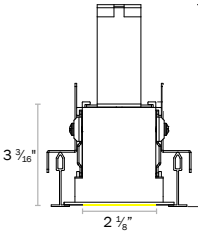
MUD



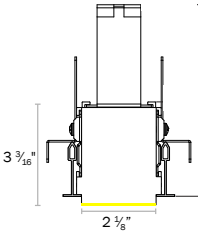
TRIM



SLOT



ATZ/TGRID



ATZ/TEGULAR

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

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

ALW

PRODUCT SPECIFICATION SHEET

LPX 2 R	—	—	—	—	—	—	— DC —
1 2 3 4	5 6	7	8 9 10 11	12 13	14	15	16 17 18

EXAMPLE: LPX2RMDFN — S8 — 053090SLV00 — SW — 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

1. FAMILY

QS ■ **LPX** Lightplane[+]

2. SIZE

QS ■ **2** 2"

3. MODEL (CHOOSE 1)

QS ■ **R** Recessed Direct

4. MOUNTING (CHOOSE 1)

QS ☐ **MD** Mud
QS ☐ **TM**[1] Trim
QS ☐ **T9** TGrid 9/16
QS ☐ **T5** TGrid 15/16
☐ **HF** Hidden Flange
☐ **ST** Slot
☐ **G9** Tegular 9/16
☐ **G5** Tegular 15/16
☐ **AS**[2,3] Armstrong Techzone® Slot
☐ **A9**[2,3] Armstrong Techzone® T-grid 9/16
☐ **A5**[2,3] Armstrong Techzone® T-grid 15/16
☐ **AG**[2,3] Armstrong Techzone® Tegular 9/16
☐ **AW**[3] Armstrong Woodworks®
☐ **AM**[3] Armstrong Metalworks®

[1]For install in wood, drywall, metal, etc.
[2]Fits Armstrong 4" TechZone®
[3]All 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.

5. LENS TYPE (CHOOSE 1)

QS ☐ **FN**[4] Flush Lens
☐ **RN**[4] Regress Lens (3/4")
☐ **CN**[5] ControlRoll Flush Lens

[4]*Available in Lambertian (SL) Optic only.*
[5]*Available in all Optic Types (SL, LG, AL, AR, WS).*

6. 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)*
QS ☐ **L__/__** L-Shaped Configuration *(enter side lengths A and B, ex. L12/24)*
QS ☐ **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.

* ALW regularly builds simple and complex mitered patterns not shown above. Contact ALW and provide a RCP with your layout to get started.

(S) (Q) (R) (L) (U)

7. LUMENS* (CHOOSE 1)

QS ☐ **03** 350lm/ft
QS ☐ **05** 500lm/ft
QS ☐ **07** 750lm/ft
QS ☐ **10** 1000lm/ft
QS ☐ **12** 1200lm/ft
☐ **15**[6] 1500lm/ft
☐ **RB**[7] RGB
☐ **RW**[7] RGB + 3500K White, 80CRI
☐ **BO/____**[8] BIOS. 80CRI. Choose your lm/ft
☐ **CM/____**[9] Custom Lumens. *Write in your lumens/ft (ex: 0100 = 100lm/ft).*

*For delivered lumens power, see 'Performance Details' on p. 11.
[6]1500lm/ft option only available with ControlRoll lenses.
[7]*Available in Lambertian (SL) Optic only.*
[8]Write in desired lm/ft (100 - 1200lm/ft). Static BIOS SkyBlue® 490nm LED is always on. Dynamic BIOS SkyBlue® 490nm LED can be tuned off.
[9]Custom lumens available from 100 - 1200lm/ft.

8. CCT (CHOOSE 1)

QS ☐ **N** Choose for RB, RW, or BO
☐ **27**[10] 2700K
QS ☐ **30** 3000K
QS ☐ **35** 3500K
QS ☐ **40** 4000K
☐ **50**[11] 5000K
☐ **TW**[12] Tunable White, 90CRI, 2700K - 6500K

[10]2700K only available in 90CRI
[11]5000K only available in 80CRI
[12]Tunable White (TW) not available with BIOS. BIOS has its own tunable white option to be specified by request.

9. CRI (CHOOSE 1)

QS ☐ **N** Choose for RB, RW, or TW
QS ☐ **80** 80CRI
QS ☐ **90** 90CRI

10. OPTICS* (CHOOSE 1)

QS ☐ **SL**[13] Standard Lambertian
QS ☐ **LG**[14] Low Glare
☐ **AL**[14] Asymmetric Left (outside of shape)
☐ **AR**[14] Asymmetric Right (inside of shape)
☐ **WS**[14] Widespread

*See LEED + WELL guide for optic/output combos that fall under standard UGR and intensity levels
[13]Available in all Lens Types.
[14]Only available with ControlRoll (C) Lens. optics. See pg 4 for LED and Optics Compatibility. See pg 4 for explanation of Asymmetric Lens specification.


SL LG AL AR WS

11. DRIVER* (CHOOSE 1)

QS ☐ **V00** 0-10V, dim to 0%
QS ☐ **V01** 0-10V, dim to 1%
☐ **LDE** Lutron LDE1 Ecosystem, dim to 1%
☐ **P01**[15] ELV/TRIAC phase dim to 1%
☐ **EL0** Lutron T-Series Driver
☐ **DAL** eldoLED, 0-10V dim to 0%
☐ **DMX** DALI, dim to 0%
☐ **POE**[16] DMX, dim to 0%
☐ **CM**[17] POE Ready
Custom driver

See 'LED DRIVERS' on p. 13 for various tables. 'Driver Details' has a full description of each driver spec. 'Driver/LED Compatibility' describes the compatible driver and LED combinations. 'Driver Location' describes the driver location (integral or remote) depending on the LED you choose.

[15]Phase dim drivers are 120 VAC only.
[16]Luminaire built as a driverless fixture. Contact ALW with your POE node specs and we will provide fixture voltage, current, and wattage details for PoE node commissioning.
[17]Contact ALW to specify special request 3rd party LED drivers

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.*

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PRODUCT SPECIFICATION SHEET CONT'D

12. 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 10 for premium finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze)

SPECIAL ORDER FINISHES*

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

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

13. VOLTAGE (CHOOSE 1)

QS ☐ **UNV**[18] Universal Voltage (120VAC-277VAC)
☐ **347**[19] 347 Volt *(Driver options may be limited. Not available with EMB)*

[18]Choose UNV for phase dimming driver (Po1) but is available in 120VAC only.
[19]347V available with 0-10V drivers only. Not available with Emergency Battery (EMB).

14. EMERGENCY CIRCUITS (OPTIONAL)

QS ☐ **N** None
QS ☐ **EMC/__**[20] 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. EMBs deliver roughly 1100 total lumens, or 275lm/ft for a 4ft section.

[20]No EM components provided. EMC lengths come standard as 4ft. Contact ALW for entire fixture to be EMC or if you'd like longer lengths. Power whip will be labeled as EMC.

15. 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.
*See the ALW Controls Guide for embedded control compatibility and driver control location.

16. ADDITIONAL OPTIONS - A (OPTIONAL)

QS ☐ **N** None
QS ☐ **CP** Chicago Plenum

17. ADDITIONAL OPTIONS - B* (INCLUDED)

QS ☑ **DC** Living Building Challenge Declared and Red List Approved

*See Declare page for LP+ Declare listing

18. 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.

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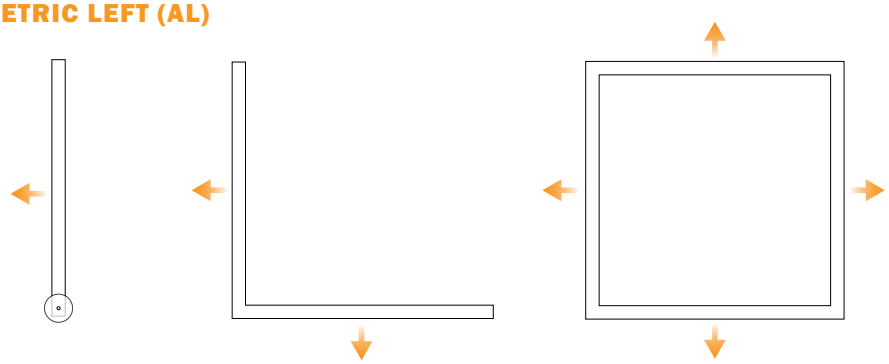
LENS & OPTICS

		LENS/OPTICS COMPATIBILITY			
		OPTICS			
		STANDARD LAMBERTIAN (SL)	LOW GLARE (LG)	ASYMMETRIC (AL, AR)	WIDESPREAD (WS)
LENS TYPES	FLUSH (FN)	●			
	CONTROLROLL FLUSH (CN)	●	●	●	●
	REGRESSED (RN)	●			

ASYMMETRIC LEFT (AL)

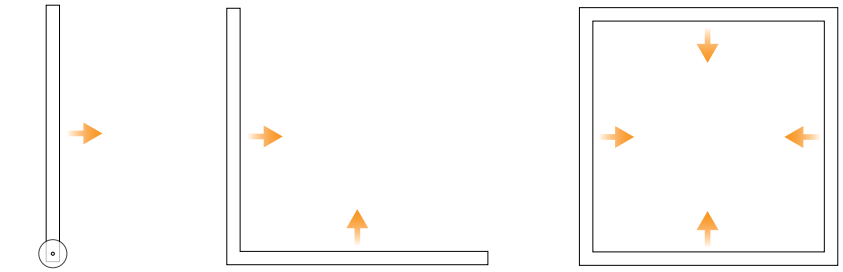


Straight Sections
Light is thrown to left of the power feed
(Lens can be reoriented in the field)

Shapes
Light is thrown outside the shape
(Lens cannot be reoriented in field because of mitered corners)

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

ASYMMETRIC RIGHT (AR)

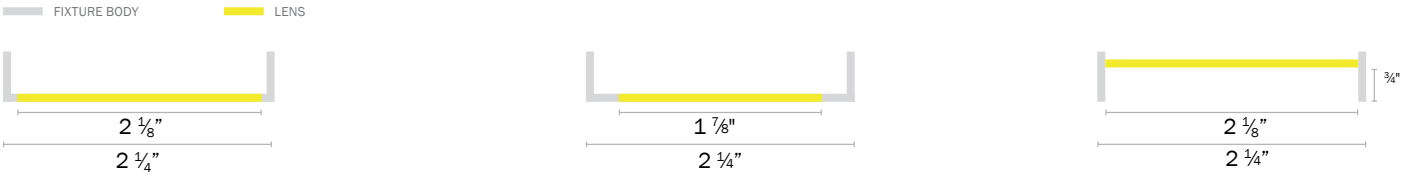


Straight Sections
Light is thrown to right of the power feed
(Lens can be reoriented in the field)

Shapes
Light is thrown inside the shape
(Lens cannot be reoriented in field because of mitered corners)

LENS DETAILS

Applicable to all models

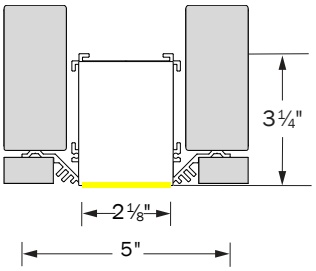


FN
FLUSH

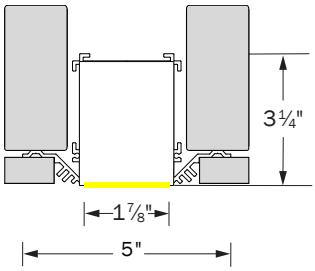
CN
CONTROLROLL FLUSH

RN
REGRESS LENS

MECHANICAL DIAGRAMS



LPX2RMDFN
RECESSED MUD-IN
FLUSH LENS



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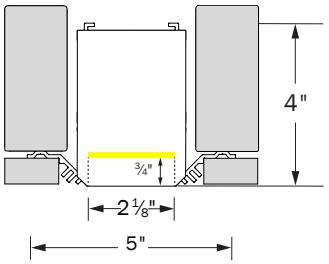
RECESSED MUD-IN
CONTROL ROLL LENS



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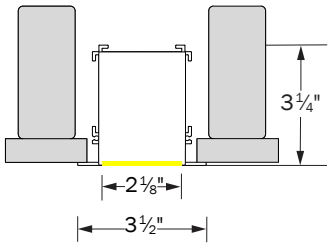
REGRESSED LENS



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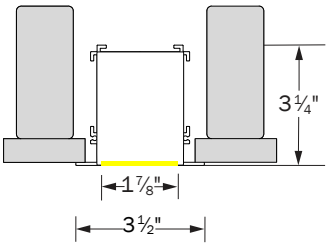
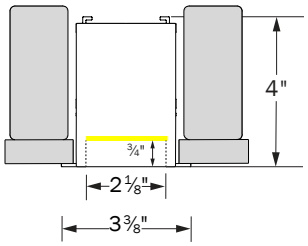
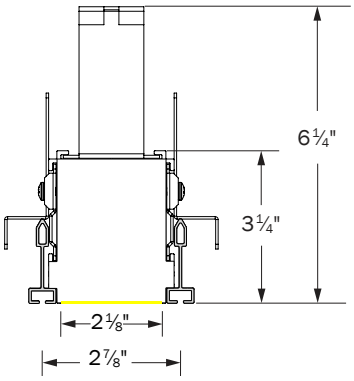
RECESSED TRIM
FLUSH LENS



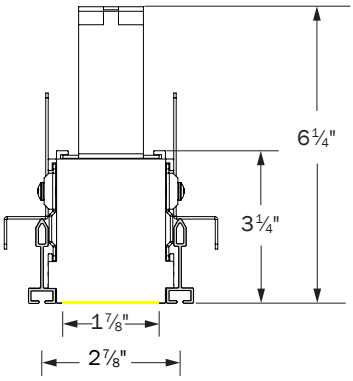
LPX2RTMCN
RECESSED TRIM
CONTROL ROLL LENS



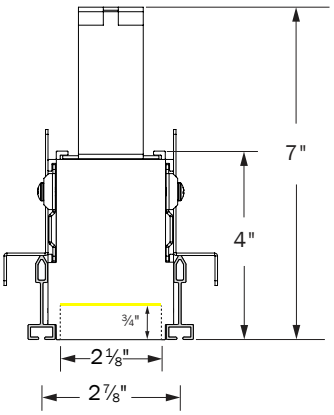
LPX2RTMRN
RECESSED TRIM
REGRESSED LENS



LPX2RSLFN
RECESSED SLOT
FLUSH LENS



LPX2RSLCN
RECESSED SLOT
CONTROL ROLL LENS



LPX2RSLRN
RECESSED SLOT
REGRESSED LENS

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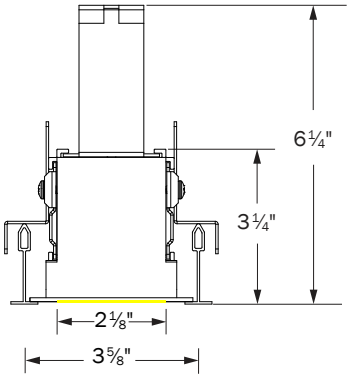
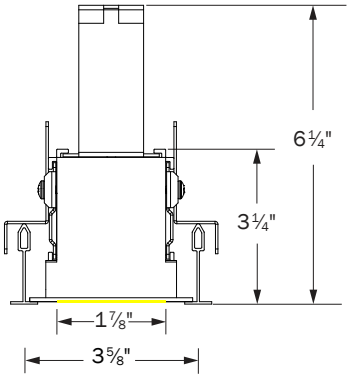
MECHANICAL DIAGRAMS CONT'D



LPX2RT9FN
RECESSED TGRID 9/16
FLUSH LENS



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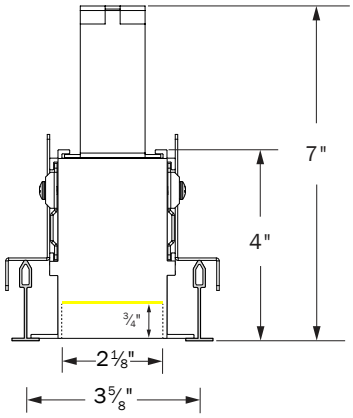
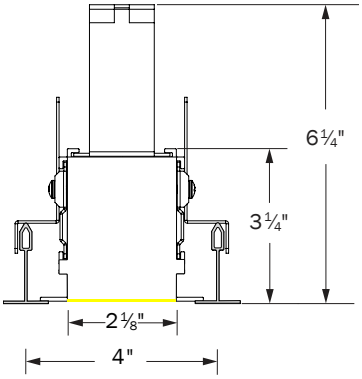
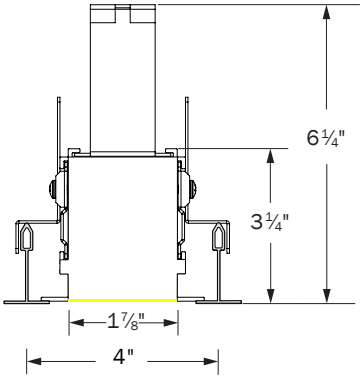
RECESSED TGRID 9/16
CONTROL ROLL LENS



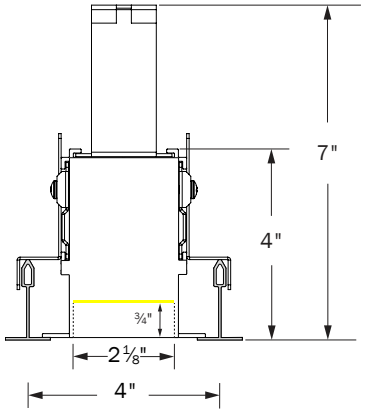
LPX2RT9RN
RECESSED TGRID 9/16
REGRESSED LENS



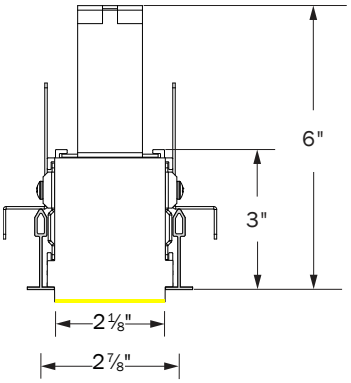
LPX2RT5FN
RECESSED TGRID 15/16
FLUSH LENS



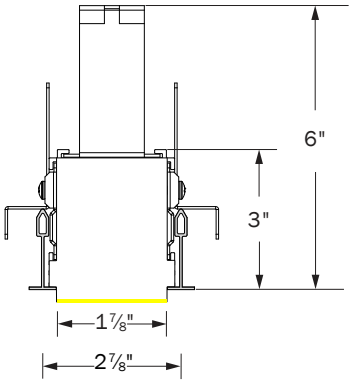
LPX2RT5CN
RECESSED TGRID 15/16
CONTROL ROLL LENS



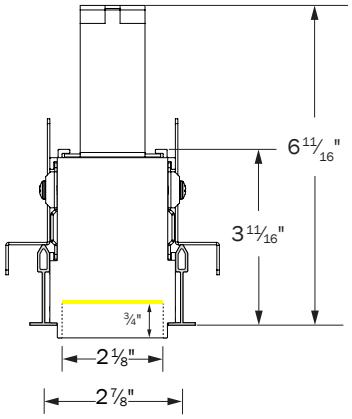
LPX2RT5RN
RECESSED TGRID 15/16
REGRESSED LENS



LPX2RG9FN
RECESSED TEGULAR 9/16
FLUSH LENS

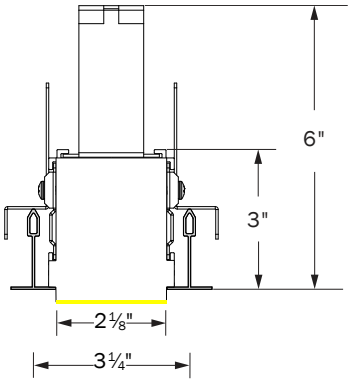


LPX2RG9CN
RECESSED TEGULAR 9/16
CONTROL ROLL LENS

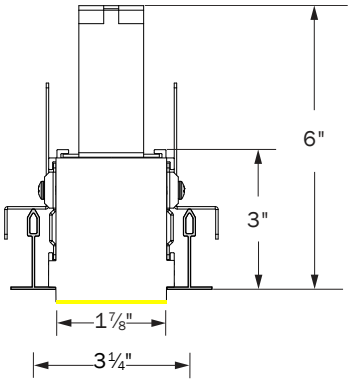


LPX2RG9RN
RECESSED TEGULAR 9/16
REGRESSED LENS

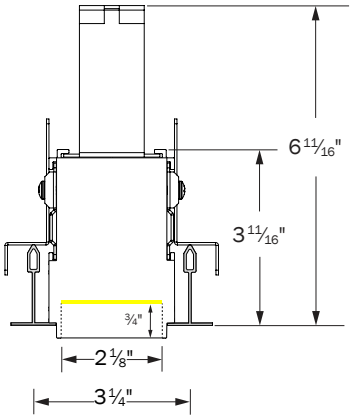
MECHANICAL DIAGRAMS CONT'D



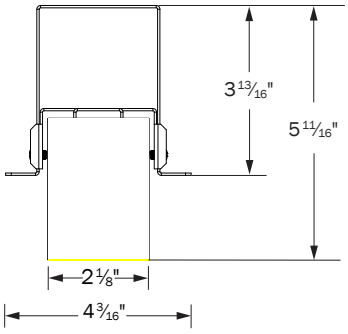
LPX2RG5FN
RECESSED TEGULAR 15/16
FLUSH LENS



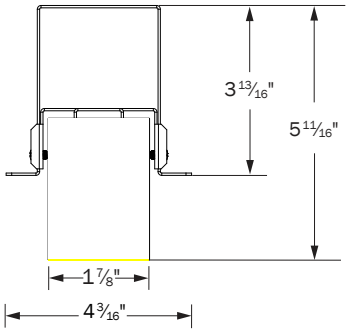
LPX2RG5CN
RECESSED TEGULAR 15/16
CONTROL ROLL LENS



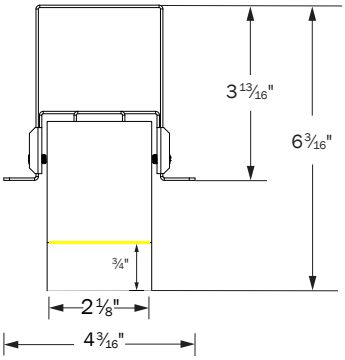
LPX2RG5RN
RECESSED TEGULAR 15/16
REGRESSED LENS



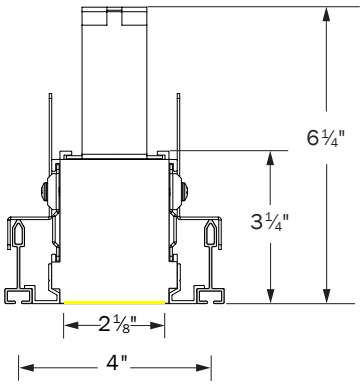
LPX2RHFFN
RECESSED HIDDEN FLANGE
FLUSH LENS



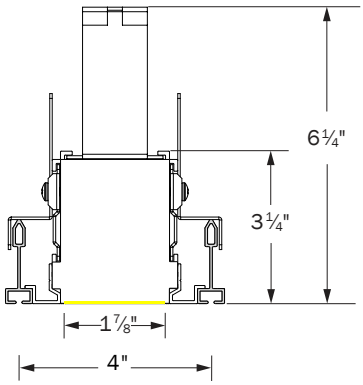
LPX2RHFCN
RECESSED HIDDEN FLANGE
CONTROL ROLL LENS



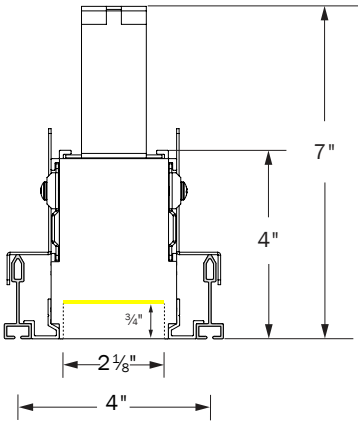
LPX2RHFRN
RECESSED HIDDEN FLANGE
REGRESSED LENS



LPX2RASFN
RECESSED SLOT
ARMSTRONG TECHZONE®
FLUSH LENS



LPX2RASCN
RECESSED SLOT
ARMSTRONG TECHZONE®
CONTROL ROLL LENS



LPX2RASRN
RECESSED SLOT
ARMSTRONG TECHZONE®
REGRESSED LENS

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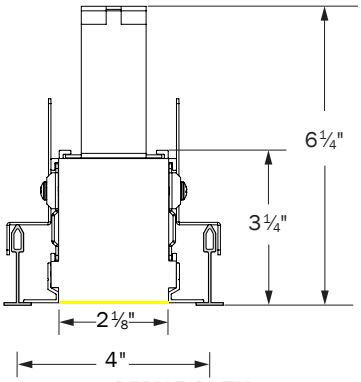
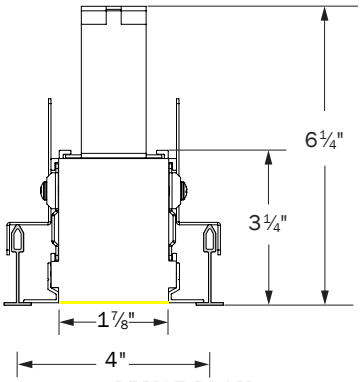
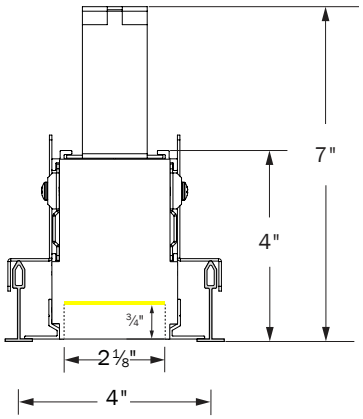
MECHANICAL DIAGRAMS CONT'D



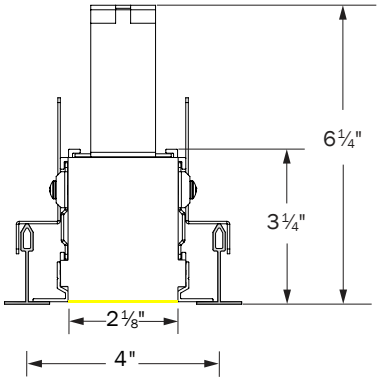
LPX2RA9FN
RECESSED TGRID 9/16
ARMSTRONG TECHZONE®
FLUSH LENS



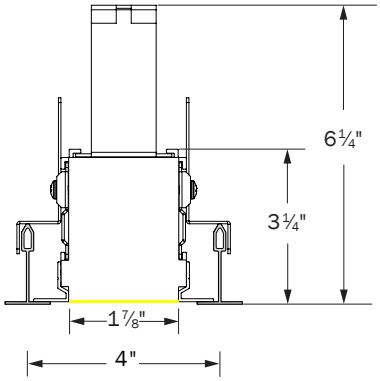
LPX2RA9CN
RECESSED TGRID 9/16
ARMSTRONG TECHZONE®
CONTROL ROLL LENS



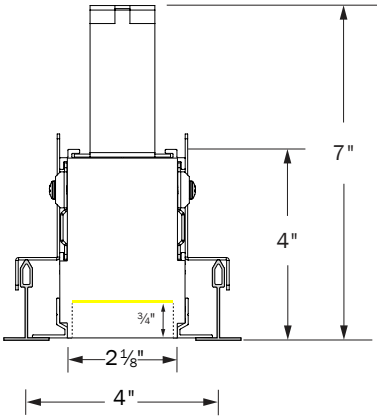
LPX2RA9RN
RECESSED TGRID 9/16
ARMSTRONG TECHZONE®
REGRESSED LENS



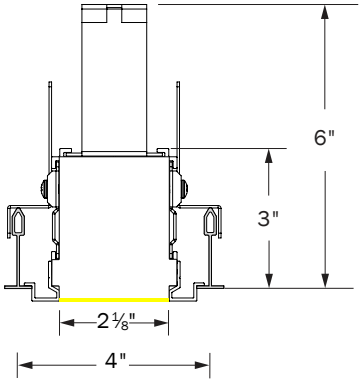
LPX2RA5FN
RECESSED TGRID 15/16
ARMSTRONG TECHZONE®
FLUSH LENS



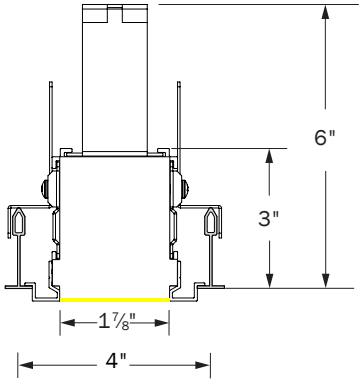
LPX2RA5CN
RECESSED TGRID 15/16
ARMSTRONG TECHZONE®
CONTROL ROLL LENS



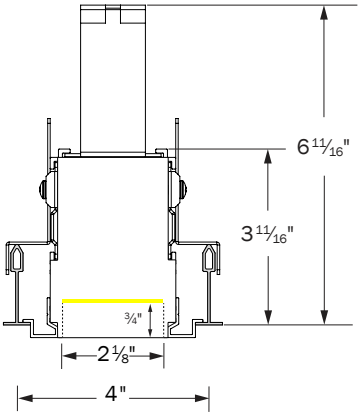
LPX2RA5RN
RECESSED TGRID 15/16
ARMSTRONG TECHZONE®
REGRESSED LENS



LPX2RAGFN
RECESSED TEGULAR 9/16
ARMSTRONG TECHZONE®
FLUSH LENS



LPX2RAGCN
RECESSED TEGULAR 9/16
ARMSTRONG TECHZONE®
CONTROL ROLL LENS



LPX2RAGRN
RECESSED TEGULAR 9/16
ARMSTRONG TECHZONE®
REGRESSED LENS

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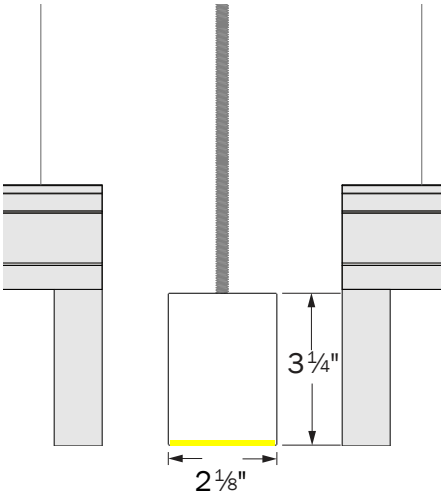
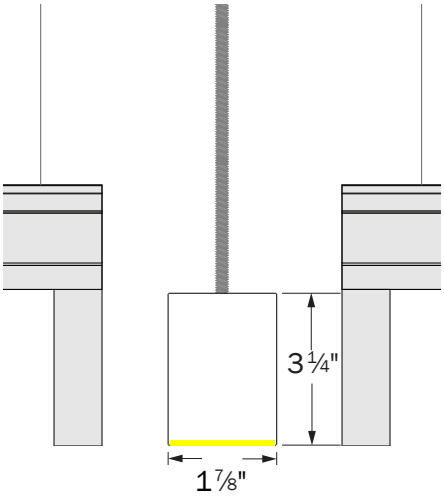
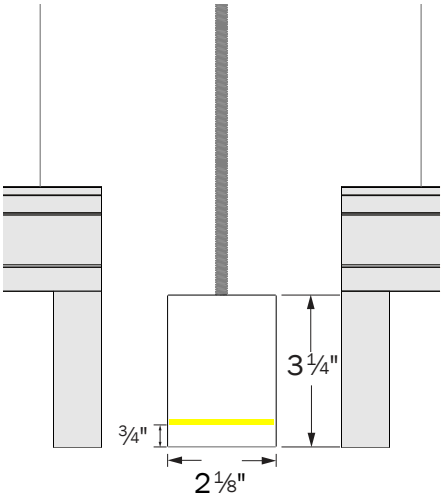
MECHANICAL DIAGRAMS CONT'D



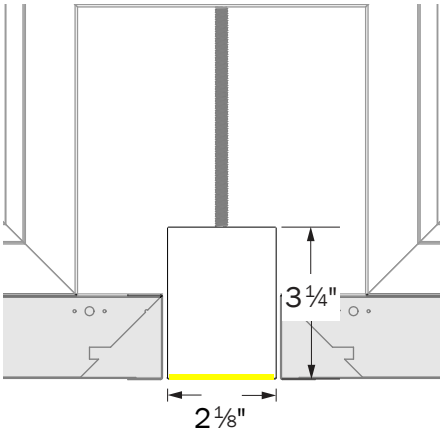
LPX2RAWFN
RECESSED
ARMSTRONG WOODWORKS®
FLUSH LENS



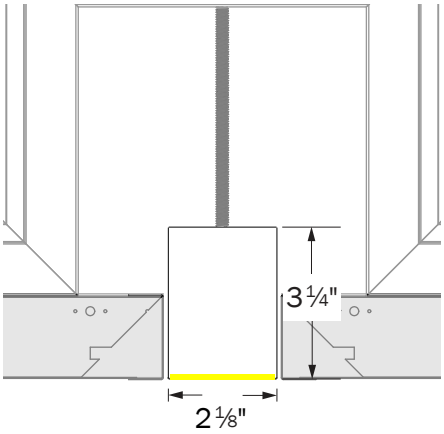
LPX2RAWCN
RECESSED
ARMSTRONG WOODWORKS®
CONTROL ROLL LENS



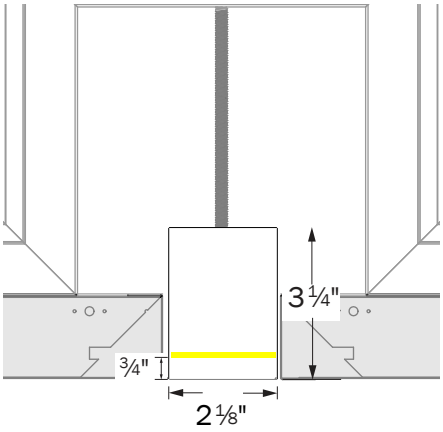
LPX2RAWRN
RECESSED
ARMSTRONG WOODWORKS®
REGRESSED LENS



LPX2RAMFN
RECESSED
ARMSTRONG METALWORKS®
FLUSH LENS



LPX2RAMFN
RECESSED
ARMSTRONG METALWORKS®
CONTROL ROLL LENS



LPX2RAMRN
RECESSED
ARMSTRONG METALWORKS®
REGRESSED LENS

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 (quotes@alw-inc.com) 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	EFFICACY (LM/W)	WATTS/FT[21]	CRI OPTIONS	CCT OPTIONS
03[22]	SL	358	119	3.01	80 90+	2700K 3000K 3500K 4000K 5000K
	SL (3/4" Regress)	369	123	3.01		
05[22]	SL	511	117	4.35		
	SL (3/4" Regress)	526	121	4.35		
07[22]	SL (Flush)	764	122	6.27		
	SL (3/4" Regress)	787	125	6.27		
10[22]	SL (Flush)	1008	112	9		
	SL (3/4" Regress)	1038	115	9.00		
12[22]	SL (Flush)	1204	110	10.97		
	SL (3/4" Regress)	1240	113	10.97		
TUNE	SL (Warm White)	461	74	6.2	90	2700K - 6500K
	SL (Cool White)	489	79	6.2		
RGB[23]	SL	92	19	4.76	-	
RGBW[23]	SL (White)	89	111	6.62	W: 80 CRI	W: 3500K
	SL (RGB)	92	27	6.62		

[21] *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%.*

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

[23] *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[21]	CRI OPTIONS	CCT OPTIONS
03[22]	CR SL (Lambertian)	357	134	2.7	80 90+	2700K 3000K 3500K 4000K 5000K
	CR WS (Widespread)	394	148	2.7		
	CR AL/AR (Asymmetric)	425	160	2.7		
	CR LG (Low Glare)	395	149	2.7		
05[22]	CR SL (Lambertian)	505	133	3.8		
	CR WS (Widespread)	559	147	3.8		
	CR AL/AR (Asymmetric)	602	158	3.8		
	CR LG (Low Glare)	560	147	3.8		
07[22]	CR SL (Lambertian)	771	131	5.9		
	CR WS (Widespread)	853	145	5.9		
	CR AL/AR (Asymmetric)	918	156	5.9		
	CR LG (Low Glare)	855	145	5.9		
10[22]	CR SL (Lambertian)	1028	129	8.0		
	CR WS (Widespread)	1137	143	8.0		
	CR AL/AR (Asymmetric)	1224	153	8.0		
	CR LG (Low Glare)	1140	143	8.0		
12[22]	CR SL (Lambertian)	1210	127	9.5		
	CR WS (Widespread)	1338	141	9.5		
	CR AL/AR (Asymmetric)	1440	152	9.5		
	CR LG (Low Glare)	1341	141	9.5		
15[22]	CR SL (Lambertian)	1364	126	10.8		
	CR WS (Widespread)	1509	139	10.8		
	CR AL/AR (Asymmetric)	1624	150	10.8		
	CR LG (Low Glare)	1513	140	10.8		
TUNE	SL (Warm White)	523	84	6.20	90	2700K - 6500K
	SL (Cool White)	554	89	6.20		
RGB[23]	SL	104	22	4.76	-	
RGBW[23]	SL (White)	100	31	6.62	W: 80 CRI	W: 3500K
	SL (RGB)	104	31	6.62		

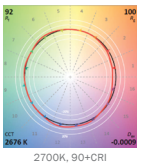
[21] *Lumens/Watt and Watts/ft have been calculated assuming a driver efficiency of 85%. Depending on field conditions, actual measured values may fluctuate by 5-8%.*

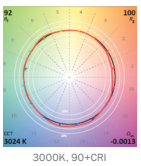
[22] *Performance calculations are based on LM-79 test of 600lm output at 80 CRI and 3500K. All other output calculations are extrapolated values.*

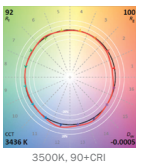
[23] *Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue) and White LED only illuminated*

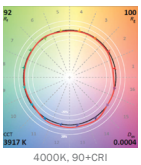
TM-30-18 DETAILS (90 CRI LAMPING)

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


2700K, 90+CRI


3000K, 90+CRI


3500K, 90+CRI


4000K, 90+CRI

DRIVERS

PRODUCT CODE	DRIVER DETAILS
	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%).
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[24]	IEEE P1789 & HD TV STUDIO[25]
V00	●	●	●		●	
V01	●	●	●		●	
LDE	●	●			●	●
P01	●	●			●	
EL0	●	●	●		●	●
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.

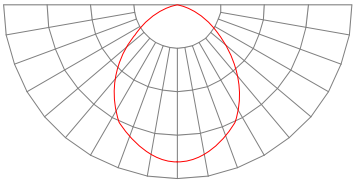
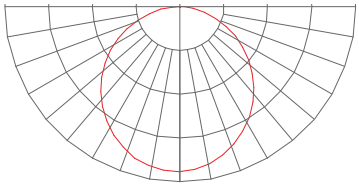
● - Indicates compatibility

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

[24] 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

[25] 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.

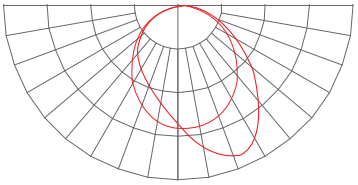
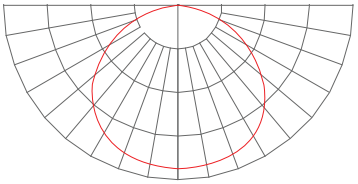
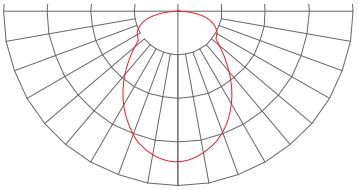
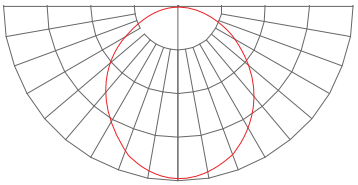
PHOTOMETRICS - STANDARD LENSES

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC)[26] (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
LG		6 ft	18.4	1.20 1.14	619.4	1398
		8 ft	10.3			
		10 ft	6.6			
		12 ft	4.6			
		14 ft	3.4			
		16 ft	2.6			
SL		6 ft	11.9	1.24 1.24	428.8	1204
		8 ft	6.7			
		10 ft	4.3			
		12 ft	3.0			
		14 ft	2.2			
		16 ft	1.7			

*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

[26]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).

PHOTOMETRICS - CONTROLROLL

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC)[26] (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
AL		6 ft	19	1.18 1.48	784.5	1804
		8 ft	10.7			
		10 ft	6.9			
		12 ft	4.8			
		14 ft	3.5			
		16 ft	2.7			
WS		6 ft	16	1.4 1.2	578.6	1676
		8 ft	9			
		10 ft	5.8			
		12 ft	4			
		14 ft	2.9			
		16 ft	2.3			
LG		6 ft	20.7	1.02 1.14	745.8	1681
		8 ft	11.7			
		10 ft	7.5			
		12 ft	5.2			
		14 ft	3.8			
		16 ft	2.9			
SL		6 ft	16.1	1.22 1.20	579.6	1516
		8 ft	9.1			
		10 ft	5.8			
		12 ft	4			
		14 ft	3			
		16 ft	2.3			

*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

[26]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

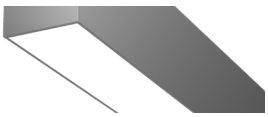
L70 Calculated: 180,000hrs (80CRI), 171,000hrs (90+CRI)
L80 Calculated: 119,000hrs (80CRI), 108,000hrs (90+CRI)
L90 Calculated: 58,000hrs (80CRI), 53,000hrs (90+CRI)

HOUSING

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

LENS & OPTICS

LPX2R has three different lens types: Flush, ControlRoll Flush, and Regressed. A wide range of optics are available including, Lambertian, Asymmetric, Low Glare, and Widespread. See page 4 for the Lens & Optics Compatibility chart.



F
STANDARD FLUSH

C
CONTROLROLL 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

UL Listed (U.S. & Canada). Suitable for dry or damp locations.

Integral Driver Models:
UL 1598 Luminaires (US), CSA C22.2 No. 250.0:21 (CA)

Remote Driver Models:
UL 2108 Luminaires (US), CSA C22.2 No. 250.2 (CA)

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 in 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, 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.

IMPORTANT

Virtual Patent Marking Notice
This website (https://www.lmpg.com/patents-trademarks) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

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