

1.5", 2.5", 3.0



1.5" wide continuous lines of light for elevators & thresholds

General, emergency & indicator lighting for elevators and their thresholds

Order in any length for precise fit

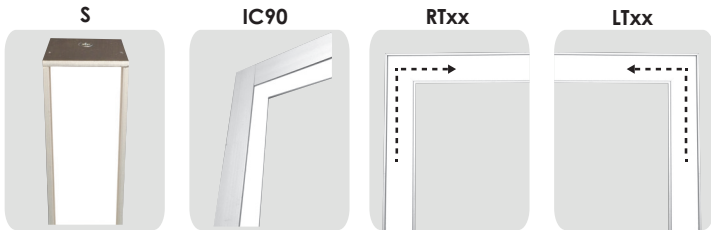
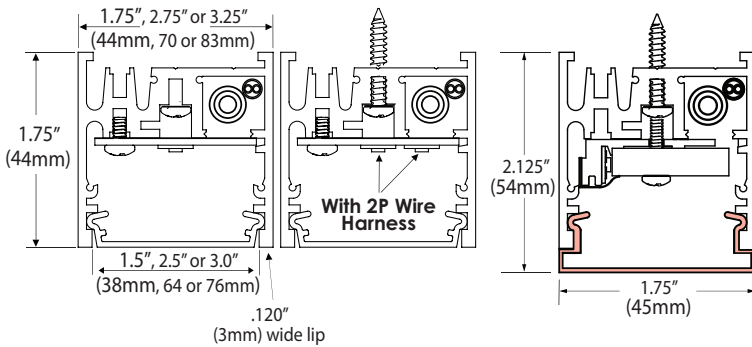
Mounts within metal, stone or wood surfaces in head trimmer, door frame or elevator interior

Optional tall lens extends over lips

Provides minimum 5fc (50Lx) or 10fc (100lx) on threshold per ASME A17.1 2.11.10.2

Can be connected to emergency lighting circuit

Red, Green, Blue colors available for indicator lights



### Environmental Data

For 3KL & 3AKL lambing at 3000k:  
 W: 2.5W/ft (8W/m)  
 LLD: 50,000hrs @ 70%lm  
 40ft (12M) on one 100w driver

For Standard Output lambing at 3000k:  
 W: 4.9W/ft (16W/m)  
 LLD: 50,000hrs @ 70%lm  
 20ft (6M) on one 100w driver  
 12ft (3.7m) on one 60w driver

For High Output lambing at 3000k:  
 W: 9.8W/ft (32W/m)  
 LLD: 50,000hrs @ 70%lm  
 10ft (3M) on one 100w driver

Temp range: 0° ~ 90°F (-20 ~ 30°C)  
 No Mercury, No UV, No Flicker  
 Warranty: 5 years  
 cETLus Listed

### Ordering

Shipping C  Ship Complete Fixture  
 H  Ship Housing and Remote Power Supply  
 L  Ship LED and Lens

Series LL15  LiftLine LED 1.5 inch width  
 LL25  Liftline LED 2.5 inch width  
 LL30  Liftline LED 3.0 inch width

Lamping 3KL  88lu/ft LED 2.5w/ft (8w/m)  
 3AKL\*\*  143lu/ft LED 2.5w/ft (8w/m)  
 1ML  175lu/ft LED 4.9w/ft (16w/m)  
 1AML\*\*  285lu/ft LED 4.9w/ft (16w/m)  
 2ML  350lu/ft LED 9.8w/ft (32w/m)  
 2AML\*\*  570lu/ft LED 9.8w/ft (32w/m)

\* 3KL & 3AKL In 27 & 30 color standard.  
 Consult factory for 3KL in other colors  
 \*\*Available in LL15 & LL25 series only

Color 27  2700K, 85+ CRI R  Red  
 30  3000K, 85+ CRI B  Green  
 35  3500K, 85+ CRI G  Blue

Wire Harness 1  Single  
 2 or 3  Separate harnesses for multiple color sections in same housing  
 2P  Two colors parallel entire length

Lens W  White flush  
 TW  Tall White (LL15 only, 10' max length, extends over end cap & sides)

Driver R  Remote

Start End RECF    x   Rectangle Flat XX" by XX"  
 PAT  Use to denote patterns as drawn  
 (Patterns are formed by adding lengths & transitions. See last page for examples)

Length xx  xx is distance in inch or mm  
 xxFC  Allows for housing to be field cut for exact fit (must use H shipping option)

Transition LTxx  Left Turn same plane (degrees 90° to 179°)  
 ICxx  Inside Corner (degrees 75° to 179°)  
(Only if lens changes direction. Consult factory for angles beyond range shown)

Finish End Choose from Start End choices listed above

Lip Color NA  Natural anodized BK  Black  
 BZ  Bronze \_  Other  
 WH  White  
 (Add E if entire fixture needs color)

Units mm  mm  
 in  inches

Options CL2Pxx  Longer length CL2P feed cable (std is 15ft) to reach remote power supply.  
 CP  Chicago Plenum

### R-ELV Driver

Economical magnetic remote mounted power supply with 24Vdc Constant Voltage output for simple class 2 installation.  
 20W, 40W, 60W or 96W; 120V 60Hz input. Minimum 50% watt load required; e.g. 10W on ELV20  
 Dims to 20% with forward phase 2-wire magnetic low voltage dimmer. Short circuit and overload protected.  
 Non-IC installations.  
 Listed for 90 C conductors with 1/2" trade size knock outs.  
 NEMA 3R enclosure.  
 See Power Supplies spec sheet for additional information and alternate power supplies.

### R-xxx-UNV Drivers

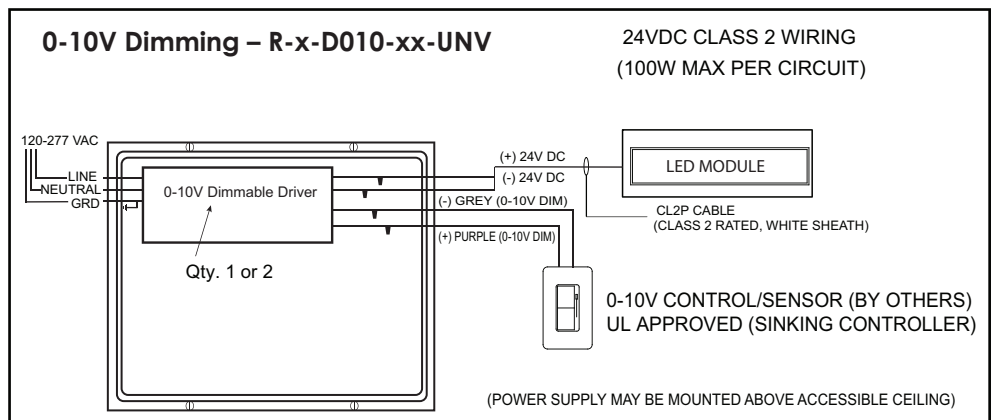
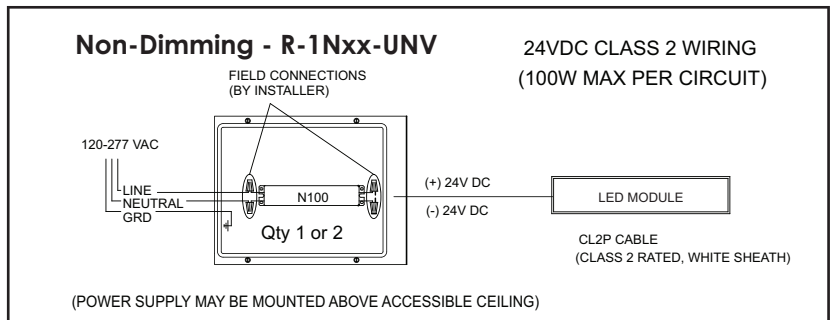
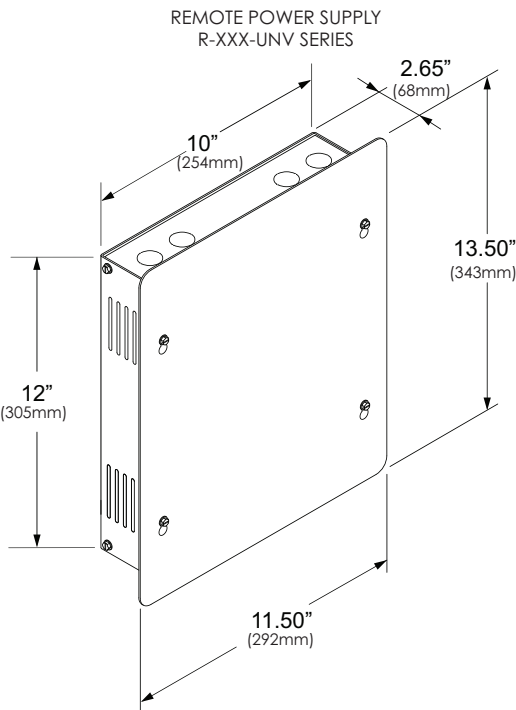
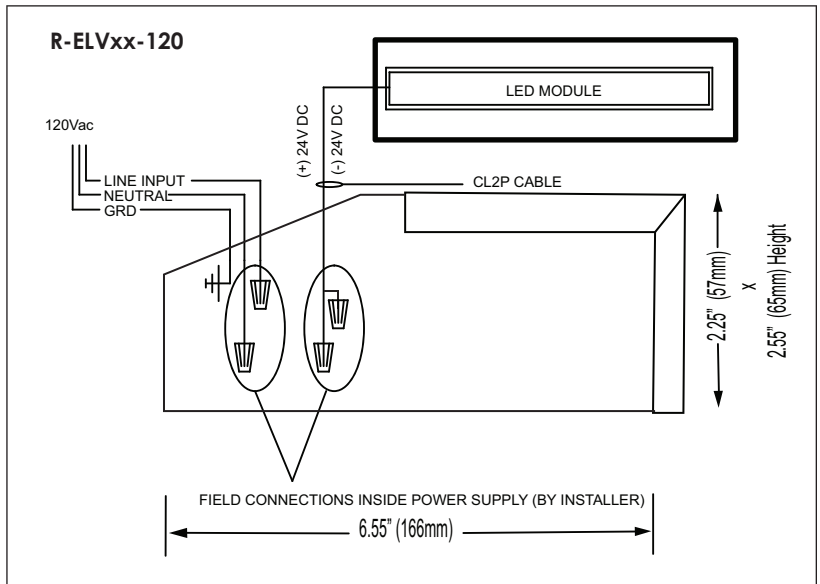
Remotely located power supply with 24Vdc Constant Voltage output for simple class 2 installation.  
 Electronic Drivers 50/60 Hz, 120 thru 277 input.  
 Choice of 0-10V dimming or switched on/off. 0-10V dimmable drivers may flicker below 10%. Adjust low end trim of dimmer accordingly.  
 Nxx requires 8W and D010 requires 20W minimum load  
 Type A Sound Rating,  
 Non IC installations standard; consult factory for IC installation.  
 May be surface mounted or recessed in 2x4 walls or above accessible ceilings.  
 Housing is die formed 16ga CRS with White painted after fabrication finish.  
 Listed for 90°C conductors with 1/2" trade size Knock Outs.  
 See Power Supplies spec sheet or consult factory for additional driver options.

### R-DLUT96-UNV

Remote power supply 24Vdc Constant Voltage Output.  
 50/60Hz, 120 thru 277V input.  
 Class A sound rated.  
 Rated for Damp location use. Non-IC installations.  
 Dims with 3-Wire dimmer or EcoSystem™  
 Requires 25W minimum load.  
 For more info visit:  
<http://www.lutron.com/TechnicalDocumentLibrary/369883.pdf>

Driver*	R	<input type="checkbox"/> Remote
Drive Qty Per	-	<input type="checkbox"/> Blank for ELV type & DLUT type
Power Supply X		<input type="checkbox"/> Factory determined with N100 or D010 type
Type	ELVxx	<input type="checkbox"/> Elec low voltage, 20, 40, 60 or 96W
	Nxx	<input type="checkbox"/> Electronic, 100W max.
	D010	<input type="checkbox"/> Dimming via 0-10Vdc
	DLUT96	<input type="checkbox"/> Lutron Hi-Lume Premier 96W
Voltage	UNV	<input type="checkbox"/> Universal 120-277V for N100 or D010 type
	120	<input type="checkbox"/> 120 for ELV type
	CP	<input type="checkbox"/> Chicago Plenum rated enclosure

\* See Power Supplies spec sheet for additional versions and details



### Housing

Extruded aluminum housing mounts via screws to framing.  
 Surface material\* (metal, tile, stone, etc.) can abut housing sides.  
 \* If wood on 3 sides, drill 3/4" holes behind fixture every 6" to ensure adequate venting.  
 Anodized for superior thermal performance.  
 Housings ship with 15ft CL2P cable attached to back, to reach remote power supply (consult factory for End exit). Longer lengths optional, or 12AWG wire can be added on site; up to 20' with D010 or 50' with N100 & ELV drivers.  
 One-piece extrusions up to 123" (3.12m). Multiple extrusions couple together with brass barrel connector & bolt assembly plus alignment pins for secure fit and straight alignment.  
 Inside corner sections overlap for even illumination without direct view of LEDs.  
 ETL listed, IC rated, damp location.

### Modifications

Runs can be provided to the nearest 1/16" or 1mm.  
 "FC" Field cutting allows for a perfect architectural fit. "FC" Housings may be field cut up to 6", **DO NOT CUT non-FC HOUSINGS**. While housings are installed, factory adds LEDs to returned panels.  
 For unique custom work, such as sharp corners, patterns and colored LEDs, consult factory for shop drawings.

### Transitions

When lens changes directions (Minimum length 3.875" or 98mm per side).  
 "LT" Left Turn same plane (degrees 90° to 179°)  
 "RT" Right Turn same plane (degrees 90° to 179°)  
 "IC" inside corner between two planes. Housings overlap without visible end cap for continuous line of light through corner.  
 "OC" outside corner around two planes; pre-assembled at factory. 90° standard, consult factory for other angles.

### LED

LED boards attached to aluminum heat sink at factory (no need to clean surface with alcohol on site to prevent air bubbles underneath).  
 Low wattage white light LED produces even distribution with no shadows. Binned within 3 MacAdam ellipses.  
 Blending and overlap keep color and light output uniform.

### Optics

Light guide panel diffuses multiple LED sources.  
 Panel plugs into housing via DC quick connects & is secured with screws for quick & easy replacement.  
 Snap-in high transmission acrylic lens, up to 24ft per section, provides a matte white finish & even distribution.  
 Extruded housing ensures constant lens retention along length.

### Option

"CP" Chicago Plenum rated housing with 6ft of FMT attached

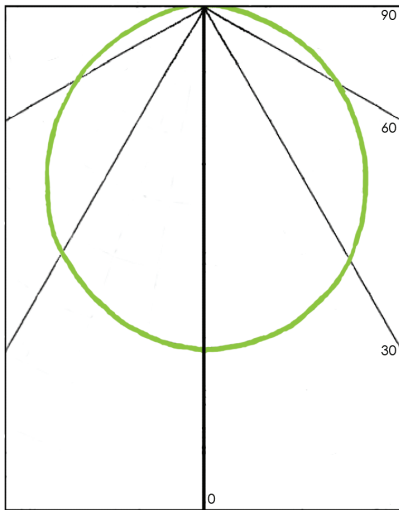
## Photometric Data

**BALLabs**  
 Independent LM-79  
 Test No. 17943.0

Cat No.: LL15-2AML-35-1-W-R-S-24-S-in \*  
 Meanwell Driver No.: LPV-20-24 operating at 120v  
 Total Lumens: 1142  
 \* Multiply all data by .50 for 1ML lamping  
 Multiply all data by .60 if 2P wire harness is used

This is an absolute test per LM-79-08  
 Luminous Length: 24"  
 Width: 2.5"

Candlepower Distribution (cd)



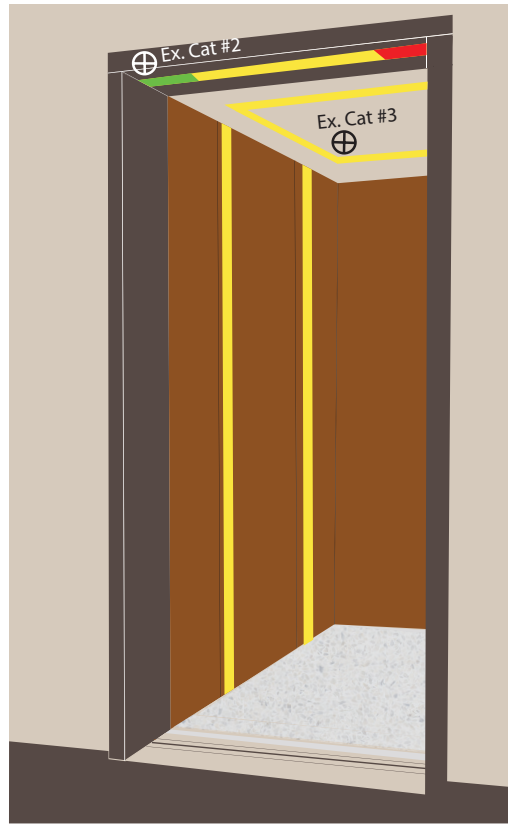
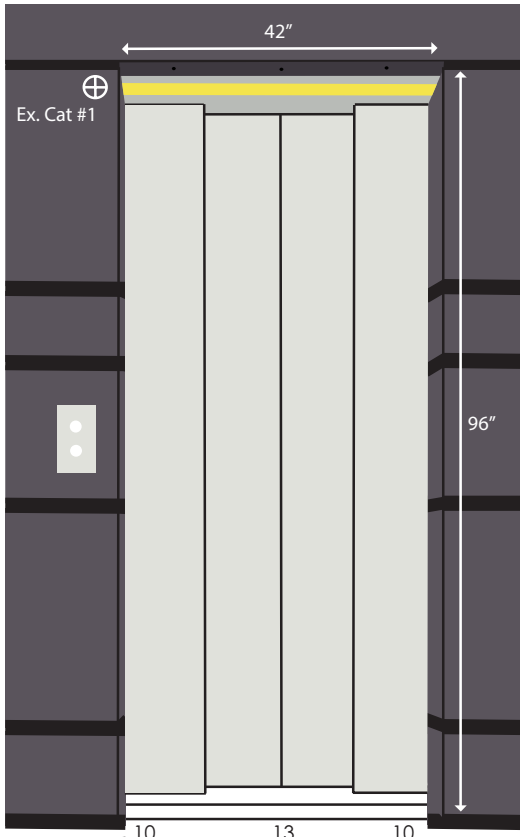
Angle	Along	45°	Across
0°	410	410	410
5°	415	411	407
10°	407	400	399
15°	399	394	389
20°	385	378	372
25°	367	359	355
30°	348	338	334
35°	324	313	310
40°	300	291	287
45°	272	267	260
50°	243	234	229
55°	209	201	197
60°	178	172	165
65°	149	141	137
70°	111	106	105
75°	81	78	77
80°	48	48	45
85°	23	22	24
90°	0	0	0

Zonal Lumen Summary

Zone	Lumen	% Luminaire
0-30°	315	27.7%
0-40°	512	45.1%
0-60°	894	78.7%
60-90°	242	21.3%
90-180°	0	0%
0-180°	1,136.00	100%

Luminance Data (cd/m2)

Angle	Along	45°	Across
45°	16411	16065	15660
55°	15530	14960	14604
65°	14986	14213	13826
75°	13262	12788	12630
85°	11252	10783	11721



FC levels for typical elevator threshold using 2AML fixture as shown in header. (0/50/0 reflectance values)

⊕ Denotes the start & power feed point of each run. Can be at either end; whichever is closest to remote power supply. Longer runs or multiple colors may require additional feed points

Ex. Cat #s (xx denotes lengths)

(1) White light in head trimmer over door threshold  
C-LL15-2AML-1-W-R-S-xx-S-NA-in

(2) White light with red & green indicator ends in head trimmer over door threshold  
C-LL15-2AML-3-R-30-G-W-R-S-xx-D-xx-D-xx-S-NA-in

(3) Rectangular pattern in ceiling of cab  
C-LL15-2AML-1-30-W-R-RECF Length x Width – Finish-in

(4) White light in head trimmer and red & green indicator lights in door jamb  
C-LL15-2AML-3-30-G-R-W-RECF Length x Width – Finish-in

Notes:  
\* Fixtures can be connected to call signal circuits. For flashing lights, specific color coordination, etc. contact factory for a shop drawing.

