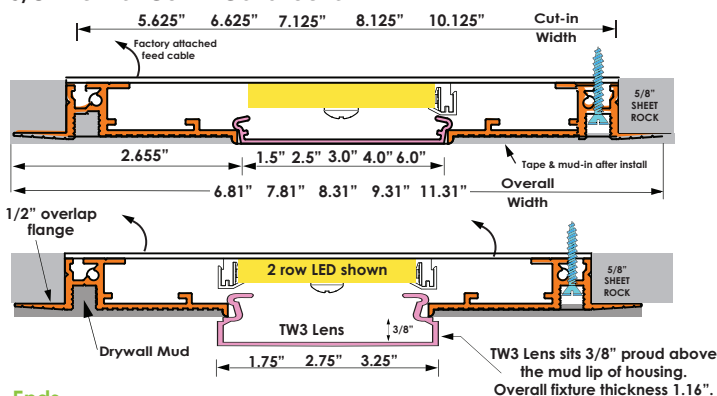
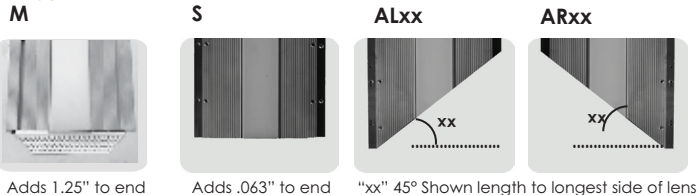


Decorative lines of light  
Smooth flush installation in plaster and drywall  
Continuous seamless lens  
Socket shadow free illumination  
Zero cavity construction-no special framing required  
Unit fits within the thickness of the finished wall material  
LED panels are easily replaced through lens opening  
Fixture is entirely non-ferrous & suitable for MRI room

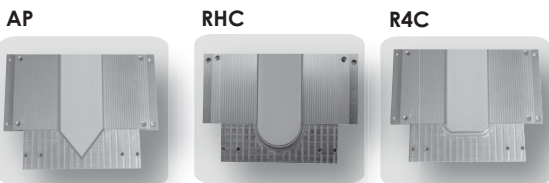
## 5/8" New or Cut-In Construction



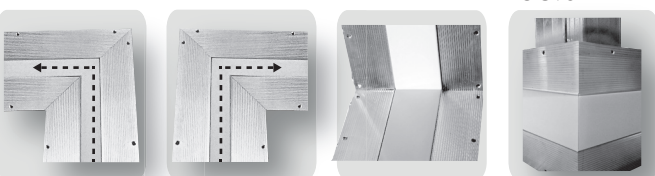
## Ends



Adds 1.25" to end Adds .063" to end "xx" 45° Shown length to longest side of lens



Transitions LTxxx RTxx ICxx OC90



## Environmental Data

For 3KL lamping at 3000k:  
W: 2.5W/ft (8W/m)  
LLD: 50,000hrs @ 70%lm  
40ft (6M) on one 100w driver

For 1ML lamping at 3000k:  
W: 4.9W/ft (16W/m)  
LLD: 50,000hrs @ 70%lm  
20ft (6M) on one 100w driver

For 2ML lamping 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 Damp Listed IC Rated

Contact factory for construction details to install in environments with ambient temperatures above 90° F for more than 5 hours.

## Type:

## Ordering

|                                   |   |   |
|-----------------------------------|---|---|
| Series                            | S15 <input type="checkbox"/> 1.5 inch width                                       | S40 <input type="checkbox"/> 4.0 inch width*    |
|                                   | S25 <input type="checkbox"/> 2.5 inch width                                       | S60 <input type="checkbox"/> 6.0 inch width*    |
|                                   | S30 <input type="checkbox"/> 3.0 inch width                                       | *Requires 2 row matching LED                    |
| Mounting                          | MC5 <input type="checkbox"/> New or Cut-in construction 5/8" GWB min.             |   |
| Lamping/LED                       | 3KL <input type="checkbox"/> 88lu/ft LED 2.5w/ft (8w/m) (in 30 & 35K only)        |   |
| Delivered lumens                  | 1ML <input type="checkbox"/> 175lu/ft LED 4.9w/ft (16w/m)                         |   |
| For 2 row, add D e.g. 2MLD        | 2ML <input type="checkbox"/> 350lu/ft LED 9.8w/ft (32w/m)                         |   |
| See Ex #7 on last page.           | _CC <input type="checkbox"/> Constant Current LED Up to 8.0w/ft (26.3w/m)         |   |
|                                   | lu/ft: 8.0=485, 5.4=354, 3.0=180, 1.5=91  |   |
|                                   | 6P* <input type="checkbox"/> 228Lu/ft LED 6.2w/ft use with LUTP96 driver          |   |
| Color                             | 269 <input type="checkbox"/> 2650K, 90+CRI, 6P lamping only                       |   |
|                                   | 27 <input type="checkbox"/> 2700K, 85+ CRI  | 279 <input type="checkbox"/> 2700K, 90+ CRI     |
|                                   | 299 <input type="checkbox"/> 2950K, 90+CRI, 6P lamping only                       |   |
|                                   | 30 <input type="checkbox"/> 3000K, 85+ CRI  | 309 <input type="checkbox"/> 3000K, 90+ CRI     |
|                                   | 35 <input type="checkbox"/> 3500K, 85+ CRI  | 40 <input type="checkbox"/> 4000K, 85+ CRI      |
|                                   | See Mullet version for RGB, RGB+W or tunable white                                |   |
|                                   | *6P in 269 & 299K color only  |   |
| Wire Harness                      | 1 <input type="checkbox"/> Single   | 2 <input type="checkbox"/> Double for 2 row LED |
|                                   |   | 1ML, 2ML or CC only                             |
| Lens                              | W <input type="checkbox"/> White  |   |
|                                   | TW3 <input type="checkbox"/> 3/8" Tall White (Not available with S60)             |   |
|                                   | G <input type="checkbox"/> Graphics, braille to be added to W or TW3 lens         |   |
| Driver                            | R <input type="checkbox"/> Remote   |   |
| Start End                         | M <input type="checkbox"/> Mud in End   |   |
|                                   | S <input type="checkbox"/> Straight End   |   |
|                                   | Axx <input type="checkbox"/> Angle cut Left (degrees 1° to 45°)                   |   |
|                                   | ARxx <input type="checkbox"/> Angle cut Right (degrees 1° to 45°)                 |   |
|                                   | AP <input type="checkbox"/> Arrow Point End W lens only                           |   |
|                                   | RHC <input type="checkbox"/> Half Circle Radius End W lens only                   |   |
|                                   | R4C <input type="checkbox"/> 1/2" Radius Corner End W lens only                   |   |
|                                   | RECf <input type="checkbox"/> _x_ Rectangle Flat XX" by XX" (see Ex. #4)          |   |
|                                   | PAT <input type="checkbox"/> Use to denote patterns as drawn                      |   |
| Length                            | xx <input type="checkbox"/> xx is distance in inch or mm                          |   |
|                                   | xxFC <input type="checkbox"/> Allows housing to be field cut for exact fit        |   |
| Transition                        | LTxx <input type="checkbox"/> Left Turn same plane (degrees 66° to 179°)*         |   |
| Only if lens changes direction    | RTxx <input type="checkbox"/> Right Turn same plane (degrees 66° to 179°)*        |   |
|                                   | ICxx <input type="checkbox"/> Inside Corner (degrees 90° to 179°)*                |   |
|                                   | OC90 <input type="checkbox"/> Outside Corner (degrees 90°)*                       |   |
|                                   | *Consult factory for angles beyond range shown                                    |   |
| Finish End                        | _____ <input type="checkbox"/> Choose from Start End choices listed above         |   |
| Units                             | mm <input type="checkbox"/> mm  | in <input type="checkbox"/> inches              |
| Options                           | CL2Pxx <input type="checkbox"/> Longer length CL2P feed cable (std is 15ft)       |   |
|                                   | CP <input type="checkbox"/> Chicago Plenum  |   |
|                                   | EME <input type="checkbox"/> All feed cables labeled for connection to EM circuit |   |
|                                   | EM5 <input type="checkbox"/> 5' section(s) in run labeled for connection to EM    |   |
|                                   | EF <input type="checkbox"/> Feed cable exit end (10' or shorter housings)         |   |
| Specify Power Supply on next page |   |   |

## R-FLV Driver

Forward phase low voltage 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 FLV20  
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.

## R-xxx-UNV Drivers

Remotely located power supply with 24Vdc Constant Voltage, or Constant Current, output for simple class 2 installation. Electronic Drivers 50/60 Hz, 120 thru 277 input. Choice of 0-10V dimming or switched on/off. Dimmable drivers with 3KL, 1ML, or 2ML may flicker below 10%. Use Constant Current version to dim to 1%.  
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.

## R-DLUT96-UNV Driver

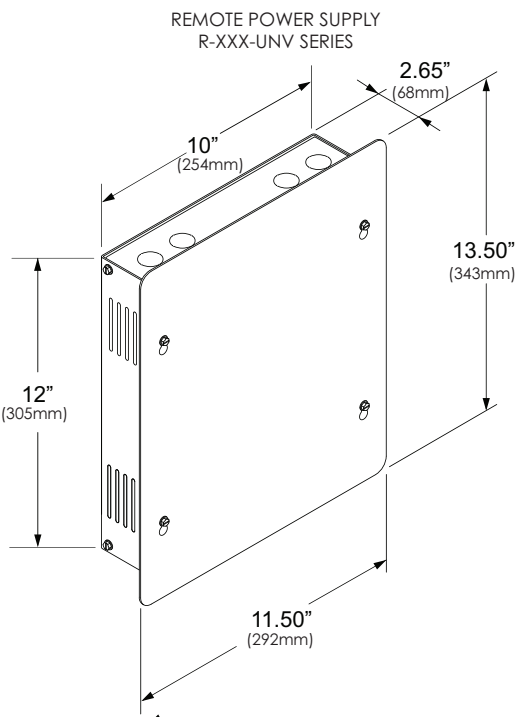
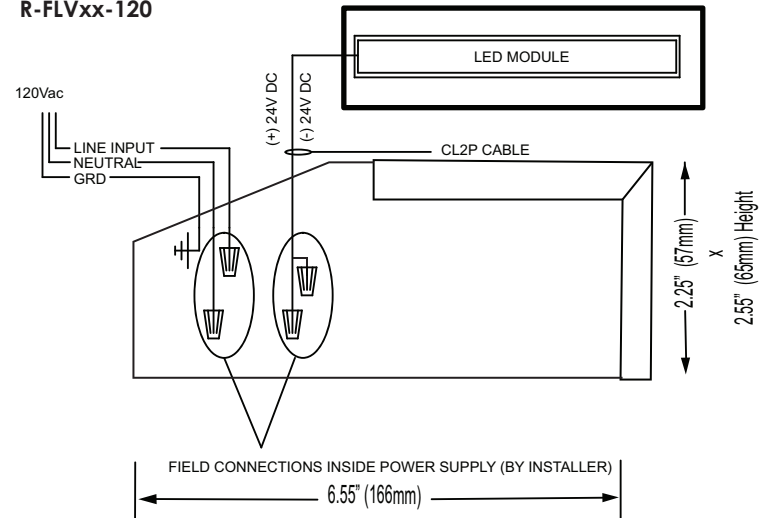
\* For use with 6P lamping only.  
Dims to 1%  
Remote power supply 24Vdc Constant Voltage Output. 50/60Hz, 120 thru 277V input.  
Class A sound rated.  
Rated for Damp location use. Non-IC installations.  
Dims with 3-Wire dimmer or EcoSystem™ Requires 25W minimum load. For more info visit:  
<http://www.lutron.com/TechnicalDocumentLibrary/369883.pdf>

|               |         |   |
|---------------|---------|---|
| Driver*       | R       | <input type="checkbox"/> Remote                                       |
| Drive Qty Per | -       | <input type="checkbox"/> Blank for FLV & DLUTP type                   |
| Power Supply  | X       | <input type="checkbox"/> Factory determined with Nxx or D010 type     |
| Type          | FLVxx   | <input type="checkbox"/> Forward phase low voltage, 20, 40, 60 or 96W |
|               | Nxx     | <input type="checkbox"/> Non-dim 100W max.                            |
|               | D010    | <input type="checkbox"/> Dimming via 0-10Vdc                          |
|               | D010_mA | <input type="checkbox"/> **Constant Current (mA by factory)           |
|               | DLUTP96 | <input type="checkbox"/> Lutron Hi-Lume Premier 96W (6P lamping only) |
|               | DDMX    | <input type="checkbox"/> Dimming via DMX                              |
|               | DALi    | <input type="checkbox"/> Dimming via DALi                             |
| Voltage       | UNV     | <input type="checkbox"/> Universal 120-277V for Nxx or D010 type      |
|               | 120     | <input type="checkbox"/> 120 only for FLV type                        |
|               | CP      | <input type="checkbox"/> Chicago Plenum rated enclosure               |

\*Consult factory for DALi, DMX & Lutron driver options.

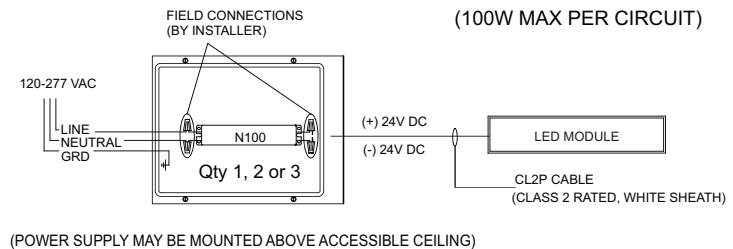
\*\*Constant Current requires a factory programmed driver for each LED panel.

### R-FLVxx-120



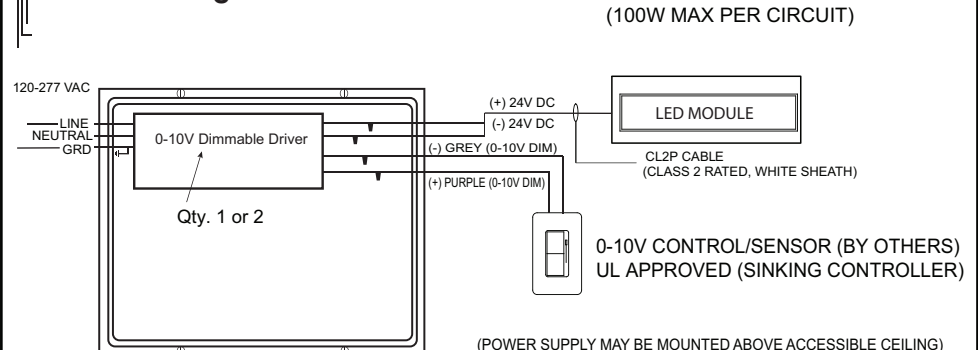
### Non-Dimming - R-x-Nxx-UNV

24VDC CLASS 2 WIRING  
(100W MAX PER CIRCUIT)



### 0-10V Dimming - R-x-D010-xx-UNV

24VDC CLASS 2 WIRING  
(100W MAX PER CIRCUIT)



## Housing

All aluminum housing mounts just like drywall to framing and hat channel to create a monolithic heat sink.  
Housing lip is mudded into surface to provide a trimless installation.  
Foam mud shield keeps aperture clean during install. Easily removed and re-installed as needed.  
Housing ships with 15ft CL2P cable attached to back to reach remote power supply. Longer lengths optional, or 12AWG wire can be added on site; up to 20' with D010 or 50' with Nxx & FLV.  
Multiple housings tab & couple together for straightness.  
Class 2 wiring from remote driver for easy installation & safety.  
ETL listed, damp location, IC rated (including polyurethane insulation).  
See companion spec sheets for "dead side" and "hardside" housings.

## Various Ends for different starting and stopping conditions:

"M" when mid field (vinyl, can be field cut)  
"S" when against hard stops (walls, floor, baseboard)  
Light will bleed through end with TW3 lens.  
"AL" & "AR" angle cut (1° to 45°)  
"AP" arrow point  
"RHC" half circle radius  
"R4C" 1/2" radius corners

## 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", then LED panels ordered to fit, DO NOT CUT non-FC HOUSINGS.  
For unique patterns, modifications or to combine with other Dado products, consult factory for shop drawings.

## Transitions

When lens changes directions on same plane or to a 2nd plane. (Minimum length 3.875" or 98mm per side).  
"LT" Left Turn same plane (degrees 66° to 179°)  
"RT" Right Turn same plane (degrees 66° to 179°)  
"IC" inside corner between two planes. Housings overlap and adjust for non-square corners.  
"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.  
See companion spec sheets for RGB & RGB+W color fixtures.

## Optics

Light guide panel diffuses multiple LED sources.  
Panel plugs into housing via DC quick connects & is secured with clear poly screws for quick & easy replacement.  
Snap-in high transmission acrylic lens with matte white finish, up to 25ft per section with flush W lens, or up to 8ft with TW3.  
Custom graphics & raised braille for ADAAG signage can be added by factory. Ink is UV cured to resist flaking, scratches & fading.  
Shallow & rigid housing ensures constant lens retention along length.

## Options

"CP" Chicago Plenum rated housing with j-box for attachment of 1/2" EMT.  
"EME" (entire fixture) or EM5 (5' section of a run) with EM labeled feed cable(s). Requires relay by others to switch from normal to EM input at driver. Dado does not provide battery packs.  
"EF" Feed cable exits end, instead of back, on 10' or shorter housings.

## Photometric Data

### BALLabs

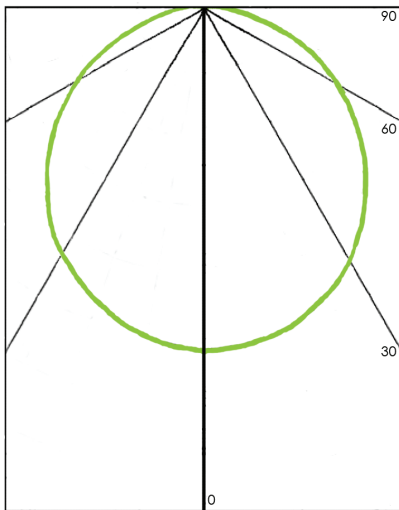
Independent Test No. 17940.0

Cat No.: S25-MC5-2ML-35-1-W-R-S-24-S-in\*  
Meanwell Driver No.: LPV-20-24 operating at 120v  
Total Lumens: 701

\* Multiply all data by 1.39 for 8.0CC, .50 for 1ML/3.0CC or .25 for 3KL/1.5CC

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

Candlepower Distribution (cd)



| Angle | Along | 45° | Across |
|-------|-------|-----|--------|
| 0°    | 259   | 259 | 259    |
| 5°    | 262   | 259 | 256    |
| 10°   | 256   | 252 | 251    |
| 15°   | 252   | 247 | 246    |
| 20°   | 240   | 236 | 234    |
| 25°   | 230   | 225 | 225    |
| 30°   | 219   | 214 | 211    |
| 35°   | 202   | 199 | 197    |
| 40°   | 186   | 180 | 179    |
| 45°   | 166   | 163 | 162    |
| 50°   | 149   | 144 | 145    |
| 55°   | 128   | 124 | 125    |
| 60°   | 107   | 105 | 104    |
| 65°   | 85    | 84  | 82     |
| 70°   | 65    | 54  | 64     |
| 75°   | 43    | 42  | 40     |
| 80°   | 25    | 24  | 26     |
| 85°   | 9     | 7   | 10     |
| 90°   | 0     | 0   | 0      |

Zonal Lumen Summary

| Zone    | Lumen | % Luminaire |
|---------|-------|-------------|
| 0-30°   | 198   | 28.4%       |
| 0-40°   | 322   | 46.1%       |
| 0-60°   | 560   | 80.2%       |
| 60-90°  | 139   | 19.8%       |
| 90-180° | 0     | 0%          |
| 0-180°  | 699   | 100%        |

Luminance Data (cd/m2)

| Angle | Along | 45°  | Across |
|-------|-------|------|--------|
| 45°   | 6017  | 5905 | 5868   |
| 55°   | 5713  | 5529 | 5575   |
| 65°   | 5128  | 5065 | 5003   |
| 75°   | 4288  | 4186 | 3982   |
| 85°   | 2729  | 2122 | 3032   |

1. Mount Housing. Pull attached feed cable to Remote Power Supply.

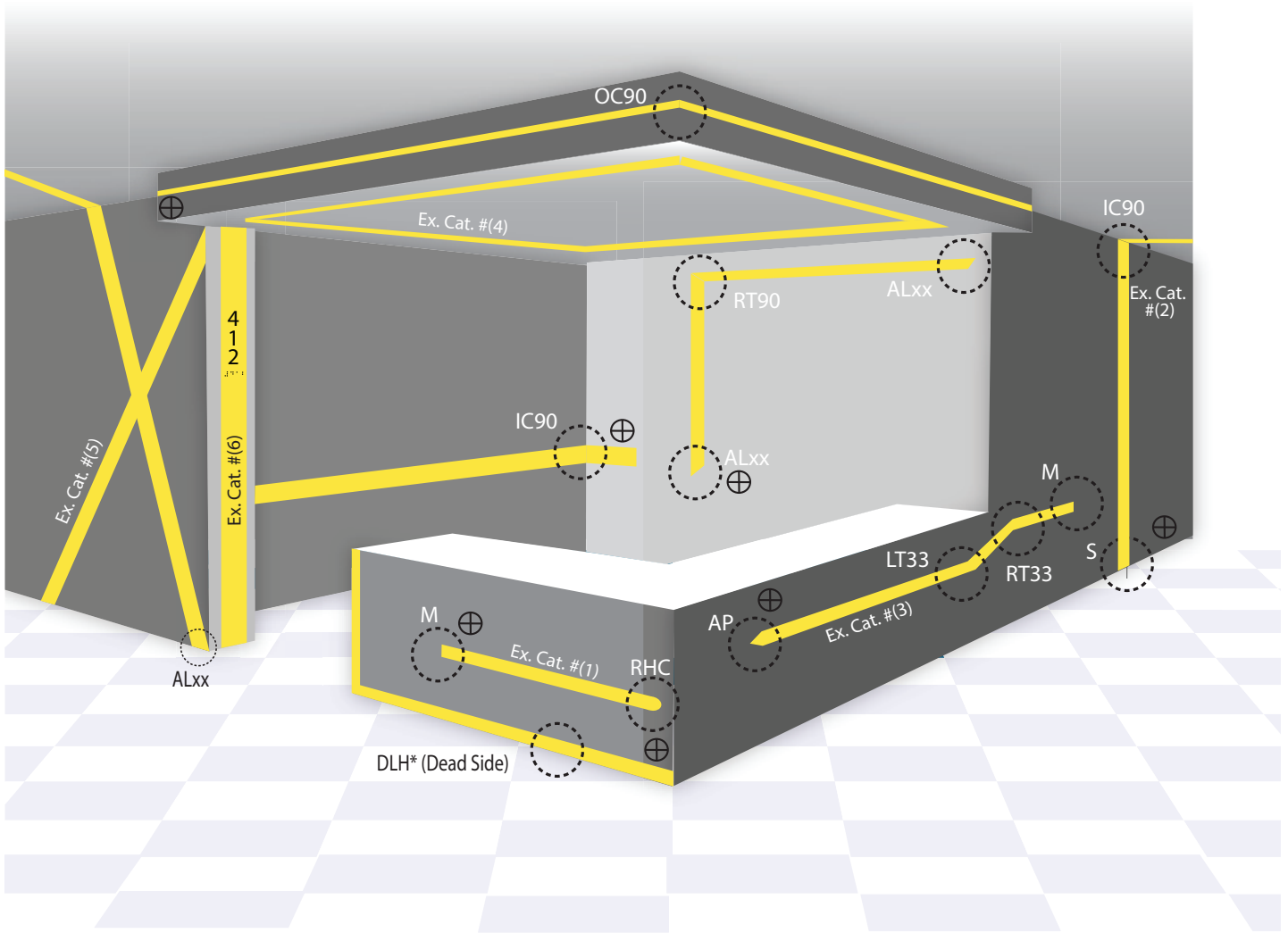


2. Install Drywall, Tape, Mud & Finish.



3. Plug in LED Module & snap in lens.





Ex. Cat #s (xx denotes lengths)

(1) Straight Line

S25-MC5-1ML-30-1-W-R-M-xx-RHC-in

(2) Line from Wall to Ceiling (for sloped ceiling, covert pitch to degrees & change IC90 as needed)

S30-MC5-1ML-30-1-W-R-S-xx-IC90-xx-M-in

(3) Linear Pattern to Follow a Stairwell

S25-MC5-1ML-30-1-W-R-AP-xx-LT33-xx-RT33-xx-M-in

(4) Rectangle flat XX by XX lengths measured along outside of lens

**For rectangle around vertical walls, see Ex.(5) pattern.**

S30-MC5-2ML-35-1-W-R-RECF \_\_x\_\_-in

(5) Irregular patterns, criss-crosses & odd shapes can be simply specified as a pattern:

S25-MC5-2ML-35-1-W-R-PATTERN # -in

(6) Printed graphics on lens:

S30-MC5-3KL-30-1-WG-S-xx-S-in

(7) 2 row LED. Required with S40 & S60. Note D version of 1ML, 2ML & CC has same total w/ft as non-D as each row has 1/2 the w/ft.

S60-MC5-2MLD-30-2-W-R-M-xx-M-in

#### Notes:

- \* Not all options shown are contained on this spec sheet; see website for additional widths, housing styles and colored LEDs.
- Factory may suggest modified length up to 2" to allow full LED module to ensure equal brightness in corners.
- Non 90 degree corners, and all T and X hubs, are welded together at factory to prevent mis-alignment.
- Consult factory for help with applications not shown or assistance with specifying & ordering.
- Approved shop drawings are required for all patterns.

⊕ Factory attached CL2P feed cable to be run to remote power supply. Shop drawings will show length, quantity & exit location(s). Assembly drawing will detail which driver to land each cable to.