

# SHALO ULTRA 2 PATTERN

RECESSED



Shalo Ultra 2" fixtures offer high-quality illumination with remote or integral drivers. Designed for surface and recessed mounting, they work with various ceiling types and feature optic options for low-glare, visually comfortable lighting.



**SENSORS**  
For latest information on sensors, click [here](#).



Brochure

Grid



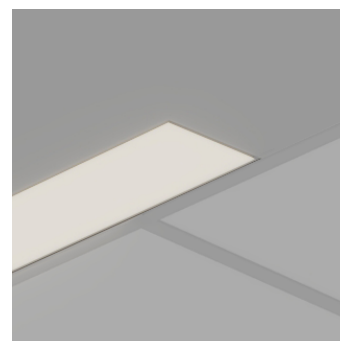
Drywall



Wood



Multiple flange (Drywall/Grid)



# SHALO ULTRA 2 PATTERN

RECESSED



Project: \_\_\_\_\_

Type: \_\_\_\_\_

## Order Guide

IC RATED

A drawing of your pattern is required - anything from a line drawing to an architectural drawing.

| LUMINAIRE ID                                       | DISTRIB.          | DRIVER LOCATION                                                                                                                                                                   | OPTIC                                                                                | LIGHT SOURCE             | CRI                                              | LUMEN PACKAGE                                                                                                                                                     |
|----------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SHLU2RPAT</b>                                   | <b>D</b>          |                                                                                                                                                                                   |                                                                                      | <b>SW</b>                |                                                  |                                                                                                                                                                   |
| <b>SHLU2RPAT</b> - Shalo Ultra 2" Recessed Pattern | <b>D</b> - Direct | <b>INTEGRAL</b> <sup>1</sup> - Integral driver<br><b>REMOTE</b> <sup>2</sup> - Remote driver<br><br><sup>1</sup> Fixture height is 2".<br><sup>2</sup> Fixture height is 1 3/16". | <b>SLO</b> - Shallow Lambertian optic<br><b>SMPO</b> - Shallow Micro-Prismatic Optic | <b>SW</b> - Static white | <b>80CRI</b> - 80+ CRI<br><b>90CRI</b> - 90+ CRI | <b>250LMF</b> - Hypo output 250 lm/ft<br><b>350LMF</b> - Low output 350 lm/ft<br><b>500LMF</b> - Medium output 500 lm/ft<br><b>750LMF</b> - High output 750 lm/ft |

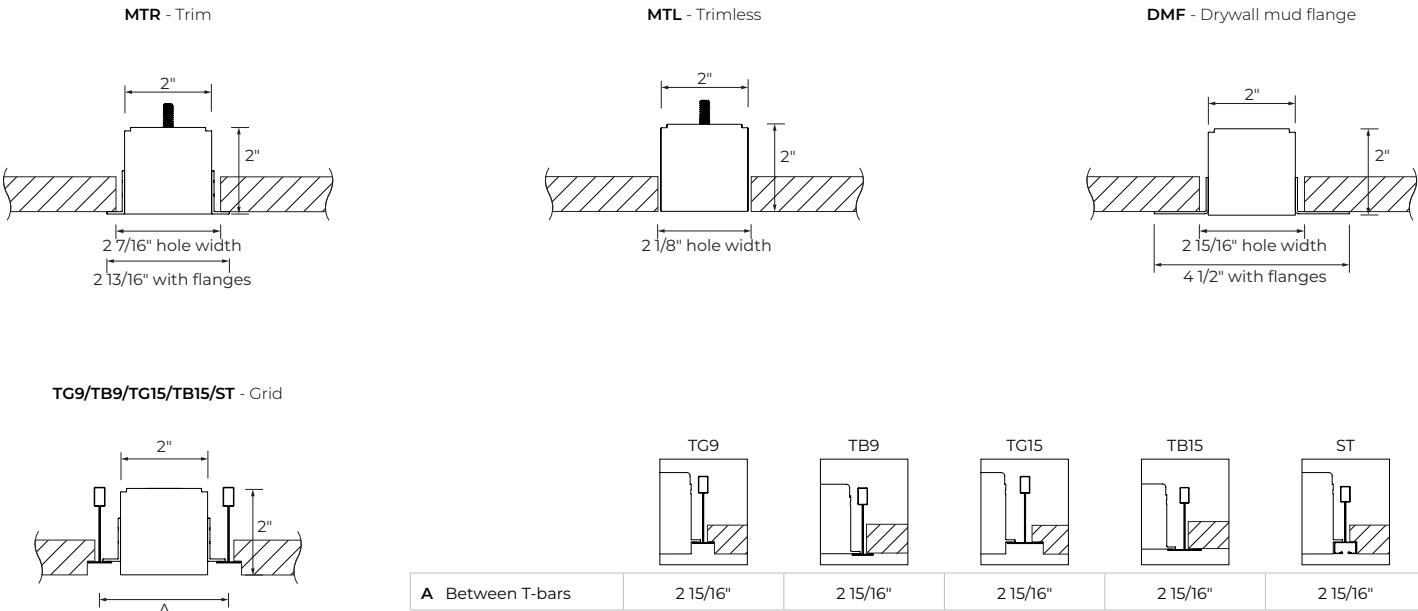
| COLOR TEMP.                                                                                                | PATTERN LENGTH                                                                                                                                                                                                                                                                                           | CORNER TYPE <sup>4,5,6</sup>                                                                                                                                                                                                                                                                                                             | VOLTAGE                                                                                                                                                         | DRIVER                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>27K</b> - 2700K<br><b>30K</b> - 3000K<br><b>35K</b> - 3500K<br><b>40K</b> - 4000K<br><b>50K</b> - 5000K | <b>##FT##IN(##X##FT#IN-##X##FT#IN-...)</b> <sup>3</sup> -<br><br>##FT##IN: total nominal length of pattern in feet and/or inches<br>#X: quantity of each section<br>#FT#IN: nominal length of each section in feet and/or inches<br><br>Continuous runs: lengths over 8'<br><br><sup>3</sup> Minimum 2'. | <b>#LEV2C(A90)</b> - 2-way leveled corner<br><b>#INN2C(A90)</b> - 2-way inner corner<br><br><sup>4</sup> See page 5 for details. Corner angle is 90°.<br><sup>5</sup> Specify quantity (#) for each required corner type.<br><sup>6</sup> If more than one option is specified, separate codes with a "+", e.g. 2LEV2C(A90)+1INN2C(A90). | <b>120V</b> - 120V<br><b>277V</b> - 277V<br><b>UNV</b> - 120V-277V<br><b>347V</b> <sup>7</sup> - 347V<br><br><sup>7</sup> Available with D1 or RD1 driver only. | <b>INTEGRAL</b><br><br><b>D1</b> - 1% 0-10V<br><b>ELV</b> <sup>8</sup> - ELV 120V<br><b>TRI</b> <sup>8</sup> - TRIAC 120V<br><b>DA</b> <sup>9</sup> - DALI<br><b>LDE1</b> <sup>9</sup> - Lutron Hi-Lume 1% Eco<br><b>ELD1</b> - eldoLED 1% ECOdrive 0-10V<br><b>ELDO</b> - eldoLED 0.1% SOLOdrive 0-10V<br><br><sup>8</sup> Available with 120V only.<br><sup>9</sup> On-site commissioning is required.<br><sup>10</sup> A remote driver box is provided. |
|                                                                                                            |                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                 | <b>REMOTE</b> <sup>10</sup><br><br><b>RD1</b> - 1% 0-10V<br><b>RELV</b> <sup>8</sup> - ELV 120V<br><b>RTRI</b> <sup>8</sup> - TRIAC 120V<br><b>RDA</b> <sup>9</sup> - DALI<br><b>RLDE1</b> <sup>9</sup> - Lutron Hi-Lume 1% Eco<br><b>RELD1</b> - eldoLED 1% ECOdrive 0-10V<br><b>RELD0</b> - eldoLED 0.1% SOLOdrive 0-10V                                                                                                                                 |

| ELECTRICAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ELECTRICAL SECTION <sup>14,15</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MOUNTING CEILING <sup>20</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MOUNTING WALL                                                                                               | FINISH                                                                                                               | WIRE HARNESS LENGTH <sup>22</sup><br>Specify NA for integral driver                                                                                                                                                                          | OPTIONS <sup>22</sup>                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1C</b> - 1 circuit<br><b>#MC</b> <sup>11</sup> - Multi circuit<br><b>EC</b> - Emergency-powered fixture<br><b>NL</b> - Night light fixture<br><b>DL</b> - Daylight fixture<br><b>GTD</b> <sup>12,13</sup> - Generator transfer device fixture<br><br><sup>11</sup> Specify total number of circuits (#), including any required for electrical section options. Provide drawing or layout specifications. Minimum 4' section per circuit.<br><sup>12</sup> Minimum 4' fixture.<br><sup>13</sup> Not available with 347V. | <b>#EC##</b> <sup>16</sup> - Emergency-powered section<br><b>#NL##</b> <sup>16</sup> - Night light section<br><b>#DL##</b> <sup>16</sup> - Daylight section<br><b>#GTD##</b> <sup>16,17,18</sup> - Generator transfer device section<br><b>#EMB</b> <sup>18,19</sup> - Emergency battery<br><b>NA</b> - None<br><br><sup>14</sup> Specify with multi circuit (#MC) electrical option only.<br><sup>15</sup> Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'.<br><sup>16</sup> Specify quantity (#), and section length in inches (##).<br><sup>17</sup> Minimum 4' section.<br><sup>18</sup> Not available with 347V.<br><sup>19</sup> Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section. | <b>TC9</b> - Tegal 9/16"<br><b>TG15</b> - Tegal 15/16"<br><b>TB9</b> - T-bar 9/16"<br><b>TB15</b> - T-bar 15/16"<br><b>ST</b> - Screw slot T-bar<br><b>MTR</b> - Trim<br><b>MTL</b> - Trimless<br><b>DMF</b> - Drywall mud flange<br><b>NA</b> - Not applicable<br><br><b>MFM</b> <sup>21</sup> - Multiple flange mounting<br><br><sup>20</sup> Transition mounting options also available (e.g. Recessed to Surface), consult factory for details.<br><sup>21</sup> See page 4 for details. | <b>MTR</b> - Trim<br><b>MTL</b> - Trimless<br><b>DMF</b> - Drywall mud flange<br><b>NA</b> - Not applicable | <b>W</b> - Matte white<br><b>AL</b> - Aluminum<br><b>B</b> - Matte black<br><b>CF#</b> - Custom finish, specify RAL# | <b>10FT</b> - 10'<br><b>20FT</b> - 20'<br><b>30FT</b> - 30'<br><b>50FT</b> - 50'<br><b>70FT</b> - 70'<br><b>90FT</b> - 90'<br><b>NA</b> - Not applicable<br><br><sup>22</sup> Low-voltage, plenum-rated wire harness for remote driver only. | <b>FUI20</b> - Fuse 120V<br><b>FU277</b> - Fuse 277V<br><b>FWC</b> - Flexible whip cable (6' std)<br><b>CP</b> - Chicago Plenum<br><b>NA</b> - None<br><br><sup>22</sup> Separate codes with a "+" if more than one is specified. |

SHALO ULTRA 2 PATTERN  
RECESSED

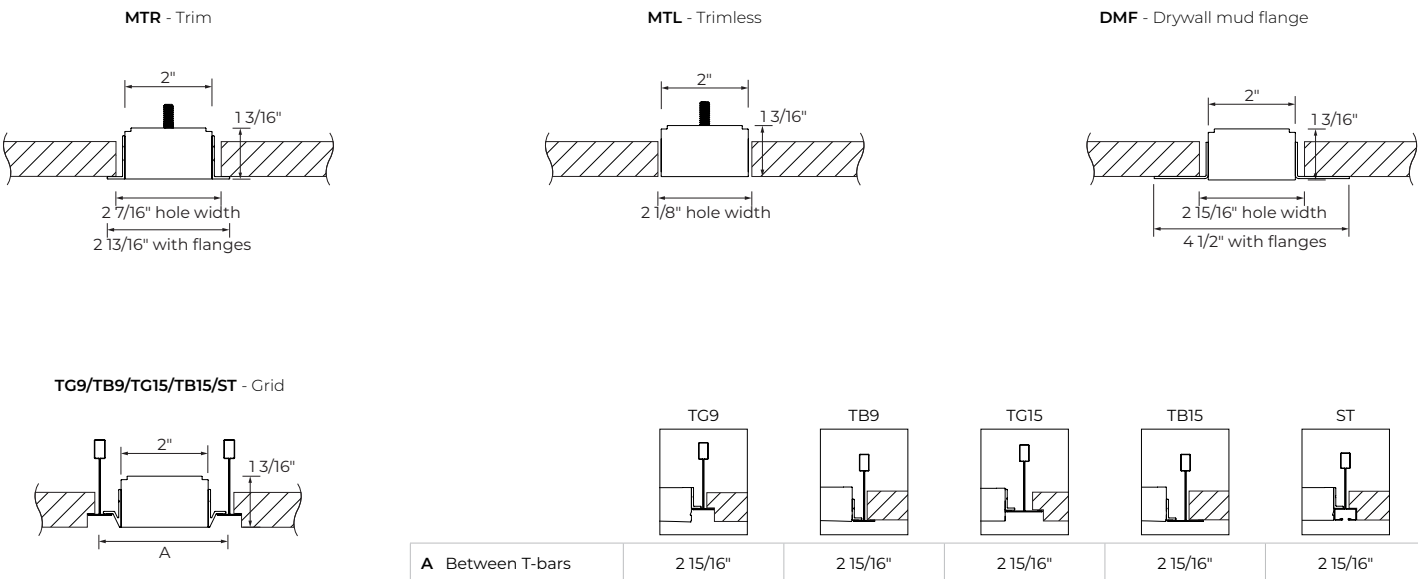
Dimensions

INTEGRAL



For grid, driver access from the top.

REMOTE



# SHALO ULTRA 2 PATTERN

RECESSED

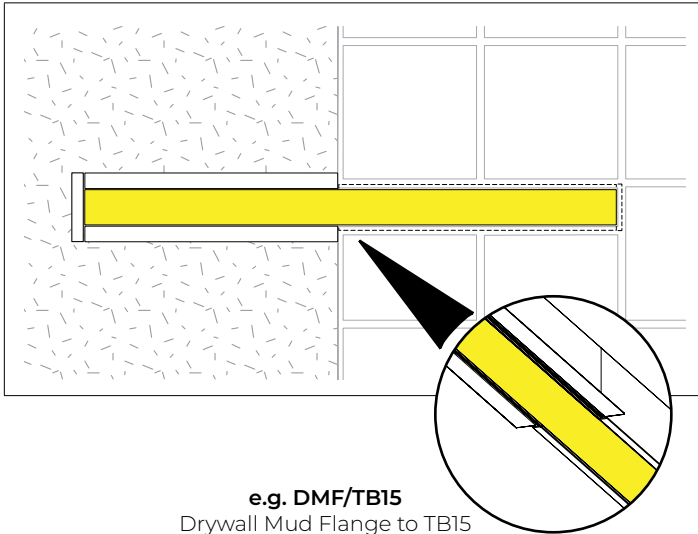


## Multiple Flange Mounting Details

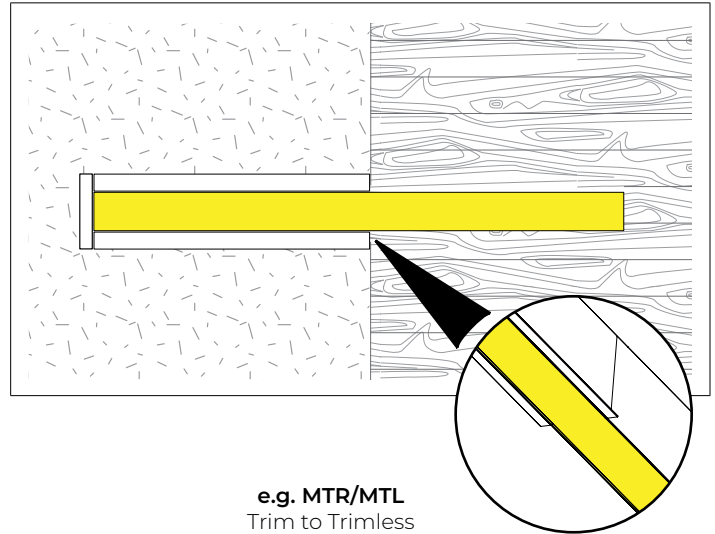
Multiple flange mounting can be specified when a fixture run needs to have a multiple flange recessed mounting detail. A drawing is required to clearly illustrate the application.

CEILING CONDITION EXAMPLES (consult factory for project specific ceiling conditions)

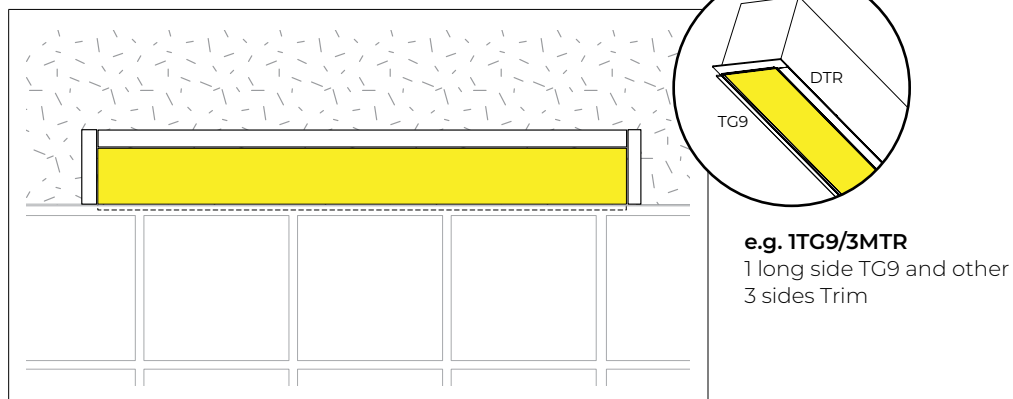
**DRYWALL/GRID**



**DRYWALL/WOOD**



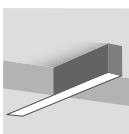
**DRYWALL/GRID**



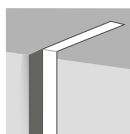
All drawings are for illustrative purposes only.

## TRANSITION MOUNTING OPTIONS (consult factory for details)

Mounting condition alters along the run of the fixture.



Recessed to Surface



Surface to Recessed in corner

SHALO ULTRA 2 PATTERN

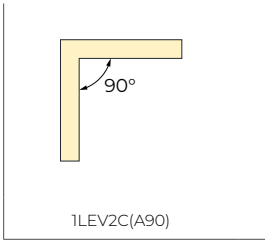


RECESSED

Pattern Layout

CORNER TYPES

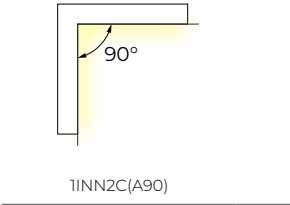
LEVELED CORNER



2-way

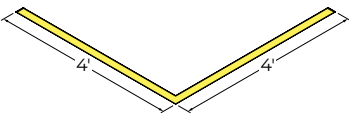
1LEV2C(A90)

INNER CORNER

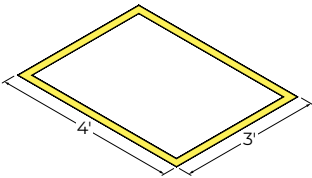


1INN2C(A90)

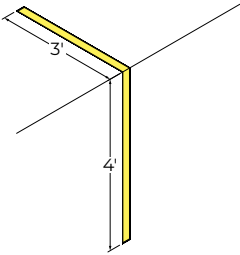
EXAMPLES



8FT(2X4FT)-1LEV2C(A90)



14FT(2X4FT-2X3FT)-4LEV2C(A90)



7FT(1X3FT-1X4FT)-1INN2C(A90)

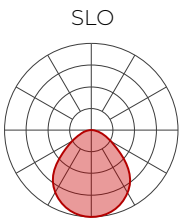
Photometrics

Values calculated based on a 4' fixture at 3500K and 90+ CRI for all optics.

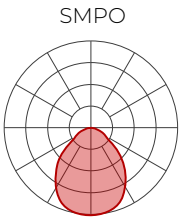
MULTIPLIER TABLE  
Use this table to get results for different color temperatures and CRI for all photometric tables.

Multiplier - CCT/CRI

| CCT   | WATTS   |         | LPW     |         |
|-------|---------|---------|---------|---------|
|       | 80+ CRI | 90+ CRI | 80+ CRI | 90+ CRI |
| 2700K | 1.05    | 1.27    | 0.95    | 0.79    |
| 3000K | 1.02    | 1.23    | 0.98    | 0.81    |
| 3500K | 1.00    | 1.19    | 1.00    | 0.84    |
| 4000K | 1.00    | 1.19    | 1.00    | 0.84    |
| 5000K | 0.96    | 1.12    | 1.04    | 0.89    |



| LM/FT | W/FT | LM/W |
|-------|------|------|
| 250   | 2.1  | 119  |
| 350   | 3.0  | 116  |
| 500   | 4.4  | 113  |
| 750   | 6.7  | 111  |



| LM/FT | W/FT | LM/W |
|-------|------|------|
| 250   | 2.2  | 116  |
| 350   | 3.1  | 113  |
| 500   | 4.5  | 110  |
| 750   | 6.9  | 108  |

# SHALO ULTRA 2 PATTERN

RECESSED



## Technical Specifications

### OPTICS

#### Shallow Lambertian Optic (SLO)

A low-profile optic with diffusing acrylic that provides wide light distribution, with matte white reflectors enhancing LED output spread.

#### Shallow Micro-Prismatic Optic (SMPO)

A low-profile optic featuring a micro-prismatic lens that balances refraction and reflection, reducing glare while maintaining efficiency and uniform light distribution.

### LIGHT SOURCE

#### Static white

Custom array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K, 4000K, and 5000K with a minimum 80+ CRI and an option for 90+ CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operate at reduced drive current to optimize efficacy and lumen maintenance. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

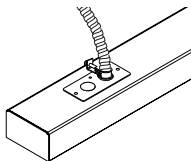
### PATTERN LENGTH

All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

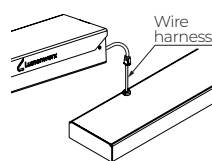
### ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277 VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency > 84%, PF > 0.9, THD < 20%. Other specifiable options include Lutron Hi-Lume 1% Eco, eidoLED 1% ECOdrive 0-10V, eidoLED 0.1% SOLOdrive 0-10V, ELV, TRIAC, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

#### Integral



#### Remote



### PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. These must be addressed and evaluated on a case-by-case basis.

### ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

#### Electrical sections

Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.

Code: 2MC-2EC96

Example 2: A 24' Direct fixture with one 4' generator transfer device section.

Code: 1MC-1GTD48

#### Battery

Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

### MOUNTING

Recessed fixtures can be mounted into exposed or concealed T-bar or tegular ceiling, as well as in ceilings with trim, trimless, or mud flange options.

### FINISH

**Interior:** 95%, reflective matte powder coated white paint.

**Exterior:** Matte white, matte black or aluminum powder coating. Custom finishes are also available.

# SHALO ULTRA 2 PATTERN

RECESSED



## CONSTRUCTION

**Housing:** Extruded aluminum, up to 90% recycled content

**Interior brackets:** Die-formed cold rolled sheet steel

**Joining system:** Die-cast zinc

**Reflectors:** Plastic

**Lens:** Acrylic

**Recessed flanges:** Extruded aluminum, up to 90% recycled content

**End plate:** Die-formed cold rolled sheet steel

## WEIGHT

**Integral:** 3 lb/ft - 1.35 kg/ft

**Remote:** 2 lb/ft - 0.9 kg/ft

## CERTIFICATIONS

**ETL:** Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

**Chicago Plenum:** City of Chicago Approved (CCEA) when specified with CP option.

**IC rated:** Suitable for direct contact with insulation

## WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.