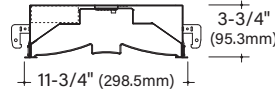


LUCEN LU14

1x4 Architectural Recessed



Key Features

- Formed 22 gauge cold rolled steel housing
- Highly reflective die-formed white painted reflector
- Wiring access available on both ends and top of housing
- LED offered with a 5-year limited warranty. Covers LED, driver and fixture
- UL and cUL Listed, LO, MO, and HO lumen packages are IC Rated
- Maximum fixture weight is 15 lbs - Surface Mount Box adds 10 lbs
- Room-Side Maintenance for LED system
- Indigo-Clean available, see Indigo-Clean specification sheets for details



Example Part #: LU14-A-830HO-G1-U-FSD-1-0-W

LU14



| | | | |
|--|--|---|---|
| -- | ----- | ----- | - |
| SHIELDING | SOURCE <i>QS</i> ¹ | MOUNTING | VOLTAGE |
| A - Satine Lens <i>QS</i> W - White Rails <i>QS</i> S - Silver Rails <i>QS</i> <i>Shielding pg. 2</i> | 27 __ - 2700K 30 __ - 3000K 35 __ - 3500K 40 __ - 4000K CL ____ - Custom Lumens CW ____ - Custom Watts MOD - Mod options available <i>Lumen Output pg. 2</i> | G1 - 15/16" Grid <i>QS</i> G9 - 9/16" Grid <i>QS</i> GS - Screw Slot Grid <i>QS</i> FL - Flanged S - Surface Mount <i>Mounting pg. 3</i> | U - Universal (120 thru 277V) <i>QS</i> 1 - 120V <i>QS</i> 2 - 277V <i>QS</i> 3 - 347V <i>Voltage pg. 3</i> |
| --- | - | --- | -- |
| DRIVER | CIRCUITING | BATTERY & EMERGENCY | FINISH |
| FSD - Factory Select Driver (1%, 0-10v) <i>QS</i> PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED Optotronic (1%, 0-10v) OL4 - eldoLED Optotronic 347v (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED ECOdrive (0.1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) PR1 - Advance Xitanium SR MOD - Mod options available <i>Driver pg. 4</i> | 1 - Single Circuit <i>QS</i> E - Emergency <i>QS</i> <i>(entire fixture)</i> N - Night Light <i>QS</i> <i>(entire fixture)</i> <i>Circuiting pg. 4</i> | 0 - None <i>QS</i> FSB - Factory Select Battery <i>QS</i> FSG - Factory Select ALCR GI - Iota ETS DR GB - Bodine GTD 1ILL - Iota 10W 1PLL - Bodine 10W <i>Battery and Emergency pg. 4</i> | W - White <i>QS</i> MOD - Mod options available <i>Finish pg. 5</i> |
| ---- | --- | | |
| FIXTURE OPTIONS ² | CONTROLS ³ | | |
| QS - QuickShip <i>QS</i> TW - Through-wiring CP - Chicago Plenum <i>QS</i> AM - Antimicrobial Paint FW6 - 6' Flex Whip <i>QS</i> GLR - Fast Blow Fusing <i>QS</i> GMF - Slow Blow Fusing BA - Buy American Act Compliant DSP - Customer Supplied Battery/Driver/ Sensor MOD - Mod options available <i>Fixture Options pg. 5</i> | DLMFC - Wattstopper DLM (wired) DLMFS - Wattstopper LLLC (wireless) EASYS - Philips EasySense (wireless) SNSLM - Encelium Sensilum (wireless) WVLX - Eaton WaveLinx (wireless) VDO - Lutron Vive Sensor (wireless) VRF - Lutron Vive Connected (wireless) ENL - Enlighted, "C" Connected Lighting or "I" IOT ENL2 - Enlighted 2-Wire, "C" Connected Lighting or "I" IOT MOD - Mod options available <i>Control Options pg. 6</i> | | |

¹When specifying SOURCE the first _ is for specifying either 8 - 80CRI, 9 - 90CRI. The ending _ are for specifying output, example HO - High Output. See output charts for more information. ²If specifying QS, QS must be used in fixture options section of part number to qualify. ³Controls can only be used with Single Circuit (1) or Emergency Circuit (E). See Controls chart on page 5 for driver options and more information



Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.



Shielding

- Single piece extruded diffuse lens with convex wings and articulated center spine
- Fully luminous housing with optimal glare control
- Highly reflective white reflectors maintain uniform lens brightness

Ordering Code

| A | W | S |
|--|---|--|
| Satine Lens | Satine Lens with White Trim | Satine Lens with Silver Trim |
|  |  |  |

Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory.
- 90 CRI = R9≥50

Custom Output- Lumens OR Wattage

| | | |
|-----------------|--|--|
| CL _____ | Specify CRI, CCT and desired lumens (i.e. CL8351200) | Specify lumens between standard offering listed below. Lumens are specified per color temp |
| CW _____ | Specify CRI, CCT and desired wattage (i.e. CW94015) | Specify watts between standard offering listed below |

80 CRI

| | Color | Output | Watts | Shielding | | W | | S | |
|--------------|-------|--------|-------|-------------|-------|------------|-------|-------------|-------|
| | | | | A | | White Trim | | Silver Trim | |
| | | | | Satine Lens | | | | | |
| | | | | Lumens | LPW | Lumens | LPW | Lumens | LPW |
| 830LO | 3000K | Low | 17.9 | 1931 | 107.9 | 1742 | 97.3 | 1644 | 91.8 |
| 830MO | 3000K | Middle | 25.9 | 2881 | 111.2 | 2599 | 100.3 | 2452 | 94.7 |
| 830HO | 3000K | High | 36.5 | 3934 | 107.8 | 3548 | 97.2 | 3348 | 91.7 |
| 835LO | 3500K | Low | 17.9 | 1985 | 110.9 | 1790 | 100.0 | 1689 | 94.4 |
| 835MO | 3500K | Middle | 25.9 | 2961 | 114.3 | 2671 | 103.1 | 2520 | 97.3 |
| 835HO | 3500K | High | 36.5 | 4043 | 110.8 | 3647 | 99.9 | 3441 | 94.3 |
| 840LO | 4000K | Low | 17.9 | 2107 | 117.7 | 1901 | 106.2 | 1793 | 100.2 |
| 840MO | 4000K | Middle | 25.9 | 3145 | 121.4 | 2837 | 109.5 | 2676 | 103.3 |
| 840HO | 4000K | High | 36.5 | 4287 | 117.5 | 3867 | 105.9 | 3648 | 100.0 |

90 CRI

| | | | | | | | | | |
|--------------|-------|--------|------|------|-------|------|------|------|------|
| 927LO | 2700K | Low | 17.9 | 1610 | 89.9 | 1452 | 81.1 | 1370 | 76.5 |
| 927MO | 2700K | Middle | 25.9 | 2401 | 92.7 | 2166 | 83.6 | 2044 | 78.9 |
| 927HO | 2700K | High | 36.5 | 3279 | 89.8 | 2958 | 81.0 | 2790 | 76.4 |
| 930LO | 3000K | Low | 17.9 | 1779 | 99.4 | 1605 | 89.6 | 1514 | 84.6 |
| 930MO | 3000K | Middle | 25.9 | 2654 | 102.5 | 2394 | 92.4 | 2259 | 87.2 |
| 930HO | 3000K | High | 36.5 | 3624 | 99.3 | 3269 | 89.6 | 3084 | 84.5 |
| 935LO | 3500K | Low | 17.9 | 1785 | 99.7 | 1610 | 89.9 | 1519 | 84.9 |
| 935MO | 3500K | Middle | 25.9 | 2662 | 102.8 | 2401 | 92.7 | 2265 | 87.5 |
| 935HO | 3500K | High | 36.5 | 3635 | 99.6 | 3279 | 89.8 | 3093 | 84.8 |
| 940LO | 4000K | Low | 17.9 | 1880 | 105.0 | 1696 | 94.7 | 1600 | 89.4 |
| 940MO | 4000K | Middle | 25.9 | 2806 | 108.3 | 2531 | 97.7 | 2388 | 92.2 |
| 940HO | 4000K | High | 36.5 | 3825 | 104.8 | 3450 | 94.5 | 3255 | 89.2 |

Direct Source: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information
- All RGB_ Source Options will require specific driver and control

| MOD | Required Driver | | Required Control | |
|-----|--------------------------|---------|------------------|--|
| | Color Changing RGB LED | EC1/EC4 | DMX | |
| | Color Changing RGB-W LED | EC1/EC4 | DMX | |
| | 2 Channel Tunable White | | | |
| | Dynamic BIOS | | | |

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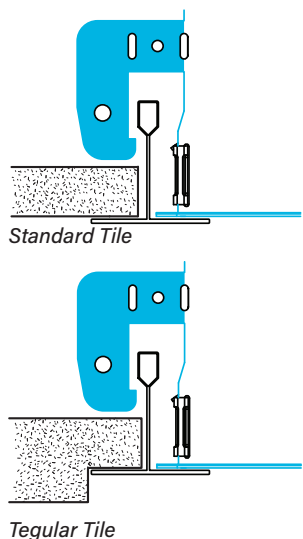
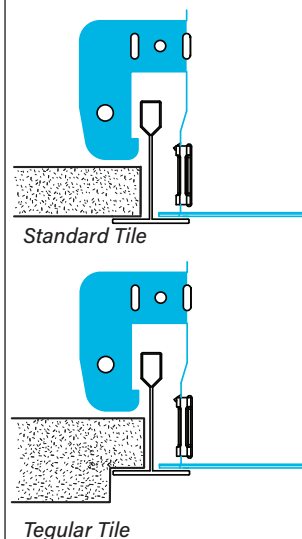
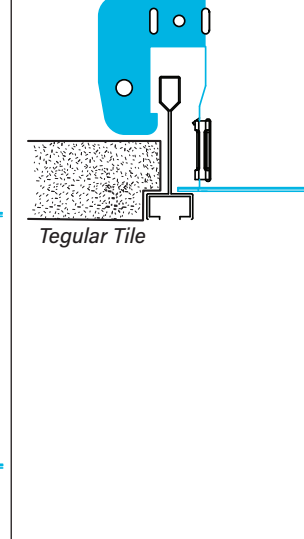
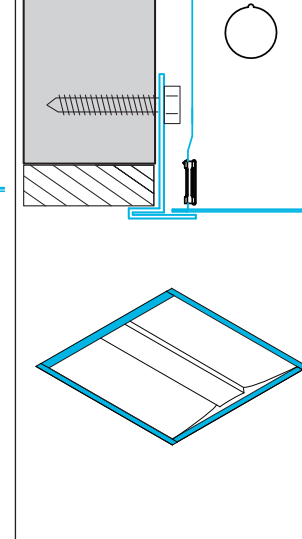
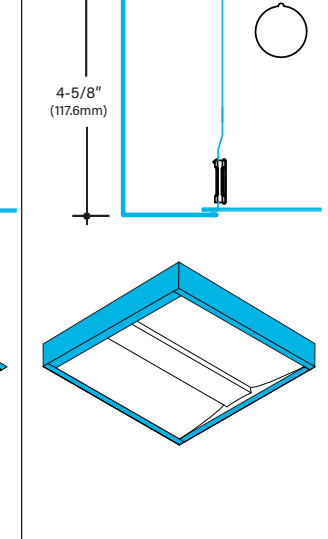
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Mounting

- LUCEN is offered with a universal flange for all grid types. See below for fixture placement in relation to the tile for each grid type
- Grid retention clips integral to housing and require mechanical attachment
- Tie off fixture to structure with retention wires
- Refer to installation instructions during installation
- Maximum fixture weight is 15lbs - Surface Mount Box adds 10 lbs

| G1 | G9 | GS | FL | S |
|---|--|---|--|--|
| 1" Grid Mount <i>Works with 15/16" grid ceiling types. See profile for fixture placement in relation to ceiling grid and tile.</i> | 9/16" Grid Mount <i>Works with 9/16" grid ceiling type. For tegular tile installations, fixture position will not be flush to the bottom of the tile. See tegular tile profile image below.</i> | Screw Slot Mounting <i>Works with screw slot and bolt slot grid ceiling types.</i> | Flange Kit <i>A separate flange kit is supplied for installations into inaccessible or drywall applications. Flange kit ships from factory uninstalled separately from fixture.</i> | Surface Mount <i>Utilize for hard lid ceiling applications. The 20 gauge steel frame easily secures to ceiling. Surface Mount Box adds 10 lbs</i> |
|  |  |  |  |  |

Voltage

- Some LUCEN configurations will not accommodate all voltage options; consult with factory

| | |
|---|-----------|
| U | Universal |
| 1 | 120 volt |
| 2 | 277 volt |
| 3 | 347 volt |



Driver

- Standard Driver Option = FSD
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more Driver options, see Pinnacle Resource Guide
- Some LUCEN configurations will not accommodate all driver options; consult with factory

0-10V Drivers

| | |
|------------|--|
| FSD | Factory Select Driver 1%, 0-10v |
| PL2 | Advance Xitanium 1%, 0-10v |
| PL4 | Advance Xitanium 347v 1%, 0-10v, requires 347v |
| OL2 | eldoLED Optotronic, 1%, 0-10v |
| OL4 | eldoLED Optotronic 347v, 1% 0-10v, requires 347v |
| EE1 | eldoLED ECOdrive 1%, 0-10v Logarithmic |
| EE2 | eldoLED ECOdrive 1%, 0-10v Linear |
| ES1 | eldoLED SOLOdrive 0-10v, 0.1% Logarithmic |
| ES2 | eldoLED SOLOdrive 0-10v, 0% Linear |
| OL5 | eldoLED Optotronic 1%, 0-10v, AUX |
| PL5 | Advance Xitanium 1%, 0-10v, AUX |

DALI Drivers

| | |
|------------|--|
| EE3 | eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6 |
| ES3 | eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6 |
| OD1 | eldoLED Optotronic 1%, DEXAL, DALI 2, DT6, Self powered link |
| PR1 | Advance Xitanium SR, DALI 2, Self powered link |

Lutron Drivers

| | |
|------------|---|
| LH1 | Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1 |
|------------|---|

Alternate Drivers

| | |
|------------|---|
| PS1 | Advance Xitanium Step Dimming 50%/100% |
| EH1 | ERP 1%, Line Voltage and ELV, requires 120v |

Driver: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

| | |
|------------|---------------------|
| MOD | Power Over Ethernet |
|------------|---------------------|

Circuiting

- Select fixture circuiting from options below
- Some LUCEN configurations will not accommodate all circuiting options; consult with factory

| | |
|----------|--------------------------|
| 1 | Single Circuit |
| E | Emergency Circuit only |
| N | Night Light Circuit only |

Battery & Emergency

- Select battery or emergency options if required
- Battery duration is 90 minutes
- Test button is integral to fixture
- For more Battery options, see Pinnacle Resource Guide

| | |
|--------------|--|
| 0 | No Battery |
| FSB | Factory Select Battery 10w, Integral Lithium |
| FSBST | Factory Select Battery 10w, Integral Lithium, Self Testing |
| FSG | Factory Select ALCR Emergency Control Device, UNV |
| GI | Iota ETS-DR, Emergency Control Device, UNV |
| GB | Bodine GTD, Emergency Control Device, 120v or 277v |
| 1ILL | Iota 10w, Integral Lithium, Self Testing |
| 1PLL | Bodine 10w, Integral Lithium, Self Testing |

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 10 (watts) x 92.3 (LPW) = 923 battery lumen output

Battery & Emergency Ordering Examples

- Single circuit, 10w integral battery Ordering Code: 1-1FSB
- Emergency circuit only, 10w integral battery Ordering Code: E-1PLL



Finish

- Powder-coat white painted finish

W White

Finish: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

| | |
|------------|-----------------|
| MOD | Wood Grain |
| | Acoustic |
| | Metallic Silver |
| | Textured Black |
| | Bronze |
| | Graphite |
| | Custom Color |

Fixture Options

- Additional options to enhance the fixture and finish of the product

| | |
|------------|---|
| QS | Quick Ship |
| TW | Through-Wiring |
| CP | Chicago Plenum |
| AM | Antimicrobial Paint |
| AR | Air Return |
| FW6 | Flex Whip 6' |
| GLR | Internal Fast Blow Fuse |
| GMF | Internal Slow Blow Fuse |
| BA | Buy American Act Compliant |
| DSP | Customer Supplied Battery/Driver/Sensor |

Fixture Options: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

| | |
|------------|----------------|
| MOD | Remote Driver |
| | End Power Feed |

Quick Ship

| Shielding | Output | Mounting | Voltage | Driver | Circuiting | Battery | Finish | Options |
|---|---|--|---|--|--|--|----------------|--|
| 10-Day | | | | | | | | |
| A Satine Lens W White Rails S Silver Rails | 80 CRI, All color temperatures, all lumen packages <i>See pg 4</i> | G1 1" Grid G9 9/16" Grid GS Grid Screw Slot | U1 Universal 120v 2 277v | FSD Factory Select Driver (1%, 0-10v) | 1E Single Emergency Night Light N | 0 None FSB Factory Select Battery | W White | CP Chicago Plenum FW6 Flex Whip 6' GLR 18-gauge Internal Fast-Blow Fuse |

Consult Factory for projects that are larger than 200 units.

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

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Controls

- Pinnacle Lighting offers easy to specify network control solutions that connect to an intelligent centralized system to maximize lighting energy efficiencies or integral sensors for individual fixture control
- Pinnacle Lighting fixtures ship technology ready; commissioning by others
- Controls can only be used with Single Circuit (1) or Emergency Circuit (E)
- Contact factory for any non-standard configurations for layout, placement, or EM options
- Controls only compatible with Satine Lens.
- Must specify required driver in Driver section

| | Solution | Components | Network/Sensor | Connection | Required Drivers | Limitations |
|--------------|-------------------------------------|-----------------------|-----------------------------------|-----------------------|--------------------|-----------------------------|
| DLMFC | Legrand Wattstopper DLM | LMFC-011 | Digital Lighting Management (DLM) | Wired, two RJ45 ports | OL2, OL4 | Not available with Battery |
| DLMFS | Legrand Wattstopper LLLC | LMFS-601-W / LMFI-111 | Wireless DLM Fixture Sensor | Wireless | OD1, PR11 or 0-10v | 0-10v requires interface |
| EASYS | Philips EasySense | SNS-210 | Daylight/PIR Occupancy | Wireless to switches | PR1 | Not available with 347 volt |
| NSNLM | Encelium Sensilum | EN-CLM-PIR-DD-ZB | Encelium, Daylight/PIR Occupancy | Wireless | OD1, OL5 | Not available with 347 volt |
| WLVX | Eaton WaveLinx | SWPD1, MSP3IVMVDC1 | WaveLinx WCL, Daylight | Wireless | Any 0-10v | Not available with 347 volt |
| VDO | Lutron Vive Sensor | DFCSJ-OEM-OCC | Vive, Daylight/PIR Occupancy | Wireless | OD1, PR1 | Not available with 347 volt |
| VRF | Lutron Vive Connected | DFCSJ-OEM-RF | Vive | Wireless | OD1, PR1 | Not available with 347 volt |
| ENLI | Enlighted IOT | SU-5E-IOT, CU-4E | Enlighted, Daylight/PIR Occupancy | Wireless | Any 0-10v | Not available with 347 volt |
| ENLC | Enlighted Connected Lighting | SU-5E-CL, CU-4E | Enlighted, Daylight/PIR Occupancy | Wireless | Any 0-10v | Not available with 347 volt |
| ENL2I | Enlighted 2-Wire IOT | KIT-SU-5E-D-IOT | Enlighted, Daylight/PIR Occupancy | Wireless | OD1 or PR1 | Not available with 347 volt |
| ENL2C | Enlighted 2-Wire Connected Lighting | KIT-SU-5E-D-CL | Enlighted, Daylight/PIR Occupancy | Wireless | OD1 OR PR1 | Not available with 347 volt |

Controls: MOD Options

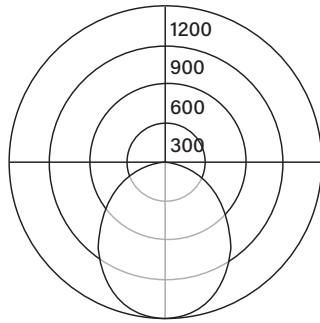
- Specify **MOD** in the part number for any of the below options
- Control** Options may require specific driver. Refer to the chart below
- Consult factory for **MOD** specification details, pricing, and lead-time information

| | | Required Driver |
|------------|--------------------------------------|-----------------|
| MOD | Encelium Sensilum | OD1, OL5 |
| | Acuity nLight Air Wireless Connected | EE6, ES6 |

Photometrics

Satine Lens

| | |
|-----------|-------------|
| Test # | ITL88926 |
| Catalog # | LU14A-840MO |
| Lumens | 3145 lm |
| Watts | 25.9 W |
| Efficacy | 121 LPW |



Candela Distribution

| Vert Angle | Horizontal Angle | | | | |
|------------|------------------|------|------|------|------|
| | 0 | 22.5 | 45 | 67.5 | 90 |
| 0 | 1200 | 1200 | 1200 | 1200 | 1200 |
| 5 | 1195 | 1194 | 1192 | 1191 | 1192 |
| 10 | 1176 | 1170 | 1169 | 1166 | 1164 |
| 15 | 1143 | 1134 | 1133 | 1129 | 1124 |
| 20 | 1098 | 1085 | 1085 | 1078 | 1074 |
| 25 | 1042 | 1028 | 1026 | 1018 | 1013 |
| 30 | 977 | 960 | 958 | 950 | 945 |
| 35 | 902 | 886 | 883 | 876 | 869 |
| 40 | 821 | 807 | 804 | 797 | 791 |
| 45 | 735 | 724 | 721 | 714 | 708 |
| 50 | 647 | 638 | 635 | 630 | 623 |
| 55 | 556 | 550 | 550 | 543 | 539 |
| 60 | 463 | 462 | 462 | 456 | 454 |
| 65 | 371 | 373 | 375 | 370 | 369 |
| 70 | 279 | 286 | 291 | 288 | 286 |
| 75 | 191 | 202 | 209 | 206 | 205 |
| 80 | 109 | 124 | 130 | 126 | 125 |
| 85 | 42 | 54 | 52 | 49 | 49 |
| 90 | 0 | 0 | 0 | 0 | 0 |

Luminance Data (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 3456 | 3390 | 3329 |
| 55 | 3223 | 3188 | 3124 |
| 65 | 2919 | 2950 | 2903 |
| 75 | 2454 | 2685 | 2633 |
| 85 | 1602 | 1984 | 1869 |



Approvals & Certifications

Construction: Formed 22 gauge cold rolled steel housing. Highly reflective die-formed reflectors maintain uniform lens brightness. Wiring access on both sides and top of housing. Housing designed to maintain optimal temperature of LED diodes and driver. Captive door frame swings open for room-side maintenance of lens, driver and LED boards.

Shielding: Single piece extruded diffuse lens with convex wings and articulated center spine creating a fully luminous housing with optimal glare control. Available with standard satine lens or optional white or silver lens side rails.

Mounting: Designed to install into acoustical grid and inaccessible ceilings. Specify G1, G9 or GS for acoustical grid ceiling. Specify FL for inaccessible ceilings. Grid retention clips integral to housing and require mechanical attachment. Tie off fixture to structure with retention wires. Maximum fixture weight is 15 lbs - Surface Mount Box adds 10 lbs.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%. Luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. TM-21-21 Lifetime Rating L70 = >102,000 hours, L90 = 60,600 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

Color & Lumen Output: Not all lumen packages available. Three lumen packages available. Low (LO), Medium (MO) and High (HO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K and 4000K. 90 CRI = R9≥50.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify PL4 or OL4 in Driver section when 347 volt (3) is selected. Some LUCEN configurations will not accommodate all voltage options; consult with factory.

Driver: Standard Driver Option is Factory Select Driver 0-10V, 1% = FSD. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 109°F/43°C. For more driver options, see Pinnacle Resource Guide. Some LUCEN configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Emergency circuit (E) or Night Light circuit (N). Some LUCEN configurations will not accommodate all circuiting options, consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is integral to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Powder coat white painted finish

Controls: Standard options available, refer to Controls section table for available options, component part number(s), connection type, required driver and limitations. Mod options available, consult with factory.

Labels: UL and cUL 1598 listed. LO, MO and HO lumen packages are IC Rated, approved for dry/damp location unless otherwise noted.

Fixture Weight: 15 lbs maximum - Surface Mount Box adds 10 lbs.

Warranty: LUCEN LED offered with a 5-year limited warranty. Covers LED, driver and fixture.