



2" LED RECESSED AJUSTABLE 700 & 1000 LUMEN

1-3/8" SQUARE LENSED REGRESSED PINHOLE

REMODEL

TC207LSQAR, TC210LSQAR
with 2301SQ Trim



PRODUCT DESCRIPTION

Recessed LED adjustable luminaire with 1-3/8" lensed regressed pinhole square aperture delivers up to 800 lumens and is available with optical distributions approximating that of MR16 halogen lamps. Fixture has 50° visual cut-off for low aperture brightness. Low profile remodel housing is non-IC rated for use in non-insulated areas or where insulation is spaced at least 3" from housing.

PRODUCT SPECIFICATIONS

LED Light Engine Consistent fixture to fixture color consistency within a 2-step MacAdam ellipse • 2700K, 3000K, 3500K, or 4000K color temperatures are available with 80 CRI minimum • 2700K and 3000K are also available with 90 CRI minimum.

Modular Optics Available with field interchangeable optics in 18° Spot, 24° Narrow Flood, 35° Flood, and 45° wide flood distributions.

Adjustability Patent pending Acu-Aim™ precision geared hot-aiming achieves 365° rotation, 40° tilt with any ceiling thickness from 1/2" to 1" • Acu-Aim™ translates light engine forward as it is aimed off nadir, ensuring maximum light and low brightness • Black aiming mechanism preserves dark aperture.

Reflector Die cast reflector in haze, black haze, wheat haze, or white finish provides 50° cut-off • Diffuse lens and black shield prevents visibility into housing.

Trims Style Self Flanged and Flush Mount styles are available • For flush mount installations in drywall ceilings, specify the FMASQ2R adapter.

LED Driver Choice of two drivers to accommodate voltages from 120-277 volts AC at 50/60Hz • Dedicated 120V (-1) driver is dimmable with most incandescent, magnetic low voltage, and electronic low voltage dimmers • Universal Voltage (-U) driver is dimmable with most 0-10V protocol dimmers • For a list of compatible dimmers, refer to [ACLXLED2-DIM](#) • Power Factor > 0.9 • Field replaceable from above or below ceiling.

Life Rated for 50,000 hrs at 70% lumen maintenance.

Warranty 5 years from date of purchase on LED components • Standard Juno Lighting Group product guarantee terms and conditions apply.

Codes/Labels UL and cUL listed for wet locations • ENERGY STAR® Qualified with all color temperatures with 80 CRI and spot, narrow flood, and flood optics • Union made.

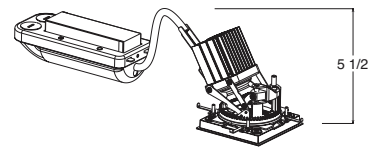
Remodel Installation Fixture installs from below the ceiling and secured to remodel ring.

Wiring Includes (2) 1/2" knockouts equipped with pryout slots and are compatible with flexible electrical supply only • Supplied with quick connect electrical connectors.

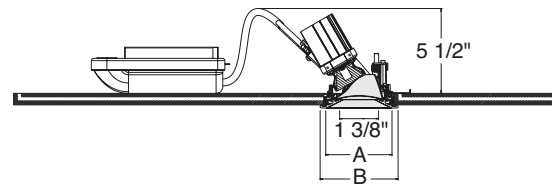
Ceiling Thickness 1/2" – 1 1/2" ceiling standard .

| | |
|----------------|----------|
| Type | Cat. No. |
| _____ | _____ |
| Project: _____ | |
| Notes: _____ | |

DIMENSIONS



TC207LSQAR, TC210LSQAR



| Trim Style | Cutout Size (A) | Flange Dimension (B) |
|-------------------------------------|-----------------|----------------------|
| Self Flanged Trims | 3.044" x 3.044" | 3.410" |
| Flush Mount Trims (Drywall Ceiling) | 3.044" x 3.044" | 2.875" |

ELECTRICAL DATA

| Lumen Package | 700 | | | 1000 | | |
|---------------|---------------------|------------------------|------|---------------------|------------------------|------|
| | Dedicated 120V (-1) | Universal Voltage (-U) | | Dedicated 120V (-1) | Universal Voltage (-U) | |
| Voltage | 120 | 120 | 277 | 120 | 120 | 277 |
| Input Power | 10.1 | 9.6 | 9.6 | 14.8 | 14.8 | 14.6 |
| Input Current | 0.09 | 0.08 | 0.04 | 0.12 | 0.12 | 0.06 |
| Frequency | 50/60Hz | 50/60Hz | | 50/60Hz | 50/60Hz | |
| Power Factor | 0.99 | 0.99 | 0.93 | 0.99 | 0.99 | 0.95 |

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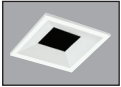
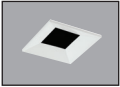
**TC207LSQAR, TC210LSQAR
with 2301SQ Trim**

Ordering Information Housing, trim and accessories each ordered separately

Example: **TC207LSQAR-830-N-1**

| Series | CRI/CCT | Optic | Driver |
|--|--------------------------|---------------------------|----------------------------------|
| TC207LSQAR 700 lm Adjustable, Non-IC | 827 80 CRI, 2700K | S 18° Spot | 1 120V, Phase Dimming |
| TC210LSQAR 1000 lm Adjustable, Non-IC | 830 80 CRI, 3000K | N 24° Narrow Flood | U 120-277V, 0-10V Dimming |
| | 835 80 CRI, 3500K | F 35° Flood | |
| | 840 80 CRI, 4000K | W 45° Wide Flood | |
| | 927 90 CRI, 2700K | | |
| | 930 90 CRI, 3000K | | |

Example: **2301SQBHZ-WH-SF**

| Trim/Description | | |
|---|---|--------------------|
|  |  | |
| Self Flanged | Flush Mount¹ | Description |
| 2301SQBHZ-BL-SF | 2301SQBHZ-BL-FM | Black Trim |
| 2301SQBHZ-WH-SF | 2301SQBHZ-WH-FM | White Trim |

¹Flush Mount trims must be used with Flush Mount Adapter in drywall ceilings, ordered separately.


Product specifications subject to change without notice.

Accessories

| Cat. # | Description |
|----------------------|--|
| FMASQ2R | Remodel Flush Mount Adapter for drywall ceilings |
| TIR-ACLX2-SP | 18° Spot Optic |
| TIR-ACLX2-NFL | 24° Narrow Flood Optic |
| TIR-ACLX2-FL | 35° Flood Optic |
| TIR-ACLX2-WFL | 45° Wide Flood Optic |
| AF2-SPREAD | 35mm Linear Spread Optic Film |
| AF2-DIFFUSION | 35mm Diffusion Optic Film |
| EMI-20 | 20W Emergency Lighting Inverter |

LUMEN OUTPUT MULTIPLIERS

| Color Temperature | CRI | Multiplier |
|-------------------|-----|------------|
| 2700K | 80 | 0.93 |
| 3000K | 80 | 1.00 |
| 3500K | 80 | 1.02 |
| 4000K | 80 | 1.06 |
| 2700K | 90 | 0.71 |
| 3000K | 90 | 0.77 |

| | | |
|---|----------------------|--------------------|
|  | Construction: | Type Non-IC |
| | CCT/CRI: | 827, 830, 835, 840 |
| | Optic: | S, N, F |
| | Trim Finish: | BHZ-BL, BHZ-WH |



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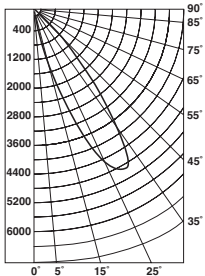
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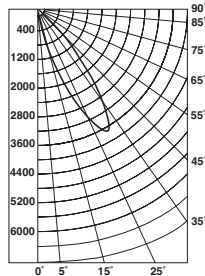
PHOTOMETRIC REPORT
Test Report: PT02141110
Catalog No: IC/TC210LSQAR-830-S-1
(Aim at 30°)
with 2301SQBHZ trim
Watts: 14.8
Lumens: 772
Luminaire LPW: 52

| Candlepower Distribution (Candelas) | |
|-------------------------------------|------------------|
| Degrees | Vertical Candela |
| 0° | 97 |
| 5° | 189 |
| 10° | 476 |
| 15° | 1267 |
| 20° | 2675 |
| 25° | 4403 |
| 30° | 4827 |
| 35° | 3701 |
| 40° | 1888 |
| 45° | 759 |
| 50° | 274 |
| 55° | 88 |
| 60° | 28 |
| 65° | 8 |
| 70° | 2 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |
| 90° | 0 |



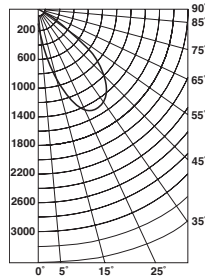
PHOTOMETRIC REPORT
Test Report: PT02141114
Catalog No: IC/TC210LSQAR-830-N-1
(Aim at 30°)
with 2301SQBHZ trim
Watts: 14.8
Lumens: 713
Luminaire LPW: 48

| Candlepower Distribution (Candelas) | |
|-------------------------------------|------------------|
| Degrees | Vertical Candela |
| 0° | 113 |
| 5° | 226 |
| 10° | 506 |
| 15° | 1108 |
| 20° | 2074 |
| 25° | 3168 |
| 30° | 3651 |
| 35° | 3051 |
| 40° | 1912 |
| 45° | 962 |
| 50° | 402 |
| 55° | 143 |
| 60° | 48 |
| 65° | 15 |
| 70° | 3 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |
| 90° | 0 |



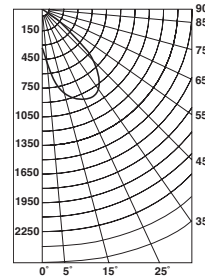
PHOTOMETRIC REPORT
Test Report: PT02141204
Catalog No: IC/TC210LSQAR-830-F-1
(Aim at 30°)
with 2301SQBHZ trim
Watts: 14.8
Lumens: 702
Luminaire LPW: 47

| Candlepower Distribution (Candelas) | |
|-------------------------------------|------------------|
| Degrees | Vertical Candela |
| 0° | 164 |
| 5° | 309 |
| 10° | 573 |
| 15° | 916 |
| 20° | 1222 |
| 25° | 1412 |
| 30° | 1497 |
| 35° | 1489 |
| 40° | 1394 |
| 45° | 1170 |
| 50° | 813 |
| 55° | 441 |
| 60° | 198 |
| 65° | 71 |
| 70° | 10 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |
| 90° | 0 |



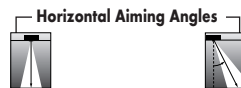
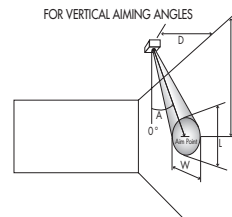
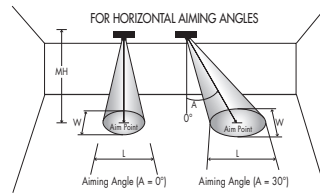
PHOTOMETRIC REPORT
Test Report: PT02141208
Catalog No: IC/TC210LSQAR-830-W-1
(Aim at 30°)
with 2301SQBHZ trim
Watts: 14.8
Lumens: 598
Luminaire LPW: 40

| Candlepower Distribution (Candelas) | |
|-------------------------------------|------------------|
| Degrees | Vertical Candela |
| 0° | 332 |
| 5° | 495 |
| 10° | 672 |
| 15° | 813 |
| 20° | 905 |
| 25° | 966 |
| 30° | 984 |
| 35° | 946 |
| 40° | 846 |
| 45° | 635 |
| 50° | 369 |
| 55° | 189 |
| 60° | 94 |
| 65° | 35 |
| 70° | 2 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |
| 90° | 0 |



CBCP • Centerbeam candlepower
FC • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).



| Beam Type | Beam Spread | CBCP | 0° | | | | 30° | | | 30° | | | | | 40° | | | |
|-----------|-------------|------|----|-----|-----|-----|-----|------|------|-----|-----|------|------|-----|-----|-----|------|-----|
| | | | MH | FC | L | W | FC | L | W | D | FC | X | L | W | FC | X | L | W |
| SPT | 18° | 4827 | 4 | 302 | 1.4 | 1.4 | 196 | 1.9 | 1.6 | 2 | 151 | 3.5 | 3.0 | 1.4 | 320 | 2.4 | 1.7 | 1.1 |
| | | | 6 | 134 | 2.1 | 2.1 | 87 | 2.8 | 2.4 | 3 | 67 | 5.2 | 4.5 | 2.1 | 142 | 3.6 | 2.6 | 1.6 |
| | | | 8 | 75 | 2.7 | 2.7 | 49 | 3.7 | 3.2 | 4 | 38 | 6.9 | 6.0 | 2.7 | 80 | 4.8 | 3.5 | 2.1 |
| | | | 10 | 48 | 3.4 | 3.4 | 31 | 4.6 | 4.0 | 5 | 24 | 8.7 | 7.5 | 3.4 | 51 | 6.0 | 4.3 | 2.7 |
| | | | 12 | 34 | 4.1 | 4.1 | 22 | 5.6 | 4.8 | 6 | 17 | 10.4 | 9.0 | 4.1 | 36 | 7.2 | 5.2 | 3.2 |
| NFL | 24° | 3651 | 4 | 228 | 2.8 | 2.8 | 148 | 3.8 | 3.2 | 2 | 114 | 3.5 | 8.6 | 2.8 | 242 | 2.4 | 4.0 | 2.1 |
| | | | 6 | 101 | 4.1 | 4.1 | 66 | 5.7 | 4.8 | 3 | 51 | 5.2 | 12.8 | 4.1 | 108 | 3.6 | 6.0 | 3.2 |
| | | | 8 | 57 | 5.5 | 5.5 | 37 | 7.6 | 6.4 | 4 | 29 | 6.9 | 17.1 | 5.5 | 61 | 4.8 | 8.0 | 4.3 |
| | | | 10 | 37 | 6.9 | 6.9 | 24 | 9.6 | 8.0 | 5 | 18 | 8.7 | 21.4 | 6.9 | 39 | 6.0 | 10.0 | 5.4 |
| | | | 12 | 25 | 8.3 | 8.3 | 16 | 11.5 | 9.5 | 6 | 13 | 10.4 | 25.7 | 8.3 | 27 | 7.2 | 12.2 | 6.4 |
| FL | 35° | 1497 | 4 | 94 | 2.8 | 2.8 | 61 | 3.9 | 3.2 | 2 | 47 | 3.5 | 8.7 | 2.8 | 99 | 2.4 | 4.1 | 2.2 |
| | | | 6 | 42 | 4.2 | 4.2 | 27 | 5.8 | 4.8 | 3 | 21 | 5.2 | 13.1 | 4.2 | 44 | 3.6 | 6.1 | 3.2 |
| | | | 8 | 23 | 5.6 | 5.6 | 15 | 7.7 | 6.4 | 4 | 12 | 6.9 | 17.4 | 5.6 | 25 | 4.8 | 8.1 | 4.3 |
| | | | 10 | 15 | 6.9 | 6.9 | 10 | 9.6 | 8.0 | 5 | 7 | 8.7 | 21.8 | 6.9 | 16 | 6.0 | 10.1 | 5.4 |
| | | | 12 | 10 | 8.3 | 8.3 | 7 | 11.6 | 9.6 | 6 | 5 | 10.4 | 26.1 | 8.3 | 11 | 7.2 | 12.2 | 6.5 |
| WFL | 45° | 984 | 4 | 62 | 3.1 | 3.1 | 40 | 4.4 | 3.6 | 2 | 31 | 3.5 | 11.6 | 3.1 | 65 | 2.4 | 4.9 | 2.4 |
| | | | 6 | 27 | 4.7 | 4.7 | 18 | 6.6 | 5.4 | 3 | 14 | 5.2 | 17.4 | 4.7 | 29 | 3.6 | 7.3 | 3.7 |
| | | | 8 | 15 | 6.3 | 6.3 | 10 | 8.8 | 7.2 | 4 | 8 | 6.9 | 23.3 | 6.3 | 16 | 4.8 | 9.7 | 4.9 |
| | | | 10 | 10 | 7.8 | 7.8 | 6 | 11.0 | 9.1 | 5 | 5 | 8.7 | 29.1 | 7.8 | 10 | 6.0 | 12.1 | 6.1 |
| | | | 12 | 7 | 9.4 | 9.4 | 4 | 13.2 | 10.9 | 6 | 3 | 10.4 | 34.9 | 9.4 | 7 | 7.2 | 14.6 | 7.3 |

