

DESCRIPTION

Round or square surface mount cylinder in choice of white, matte black, bronze or silver finish can be used to blend with or accent varying architectural styles. Two-stage reflector system produces smooth distribution with excellent light control and low aperture brightness. Lumen packages include 1000, 1500 and 2000 lumens with color temperatures of 2700K, 3000K, 3500K, 4000K. Suitable for commercial construction and exceeds high efficacy requirements (with designated trims) for IECC-2009. Pendant kits allow unit to be stem hung on ceilings with up to 45° slope. Available with dim-to-warm technology – similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space.

SPECIFICATION FEATURES

Lower Shielding Reflector

Ceiling spun 0.050" thick aluminum lower reflector in combination with a lensed upper optical chamber provides superior lumen output with minimal source brightness. Available in all Portfolio Alzak® finishes.

Trim Retention

Lower reflector is retained with two torsion springs holding the flange tightly to the cylinder.

Housing

Round seamless .050 spun aluminum housing or soft square extruded aluminum available in white, bronze, silver or matte black.

Mounting

Mounting plate installs to mounted junction box.

LED

LED system contains a plurality of high brightness white LED's combined with a high reflectance upper reflector and convex transitional lens producing even distribution with no pixilation. Rated for 50,000 hours at 70% lumen maintenance. Color variation within 3-step MacAdam ellipses. Available in 80 or 90 CRI. D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.

Driver

Combination 0-10V trailing edge driver provides flicker free dimming from 100% to 10%. Fifth Light, DMX or Lutron® Ecosystem.

Code Compliance

Surface mount are cULus listed for wet locations. Pendant mount are cULus listed for damp locations. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. RoHS Compliant. Photometric testing completed in accordance with IES LM 79 standards. LED life testing completed in accordance with LM 80 standards.

Warranty

5-year warranty.



LSR6A LSSQ6A ERC6 6L

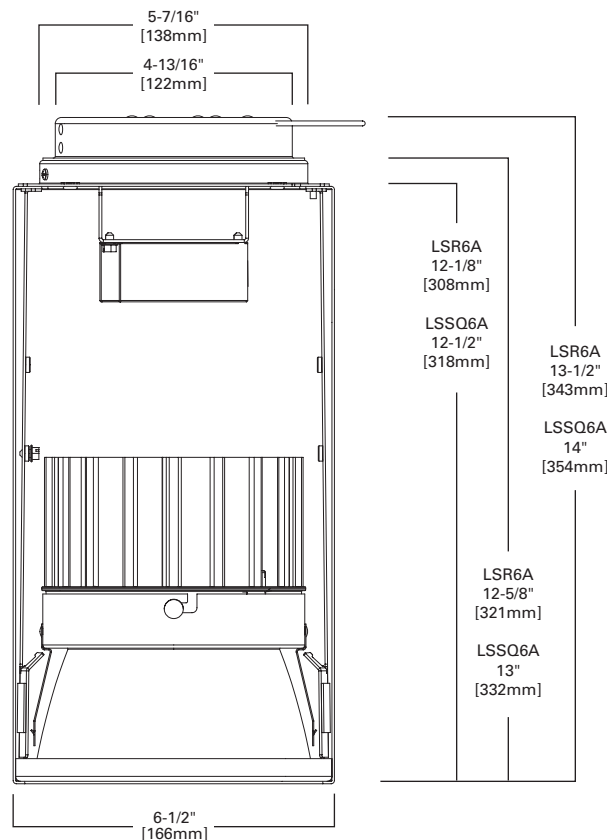
1000 Lumen LED

1500 Lumen LED

2000 Lumen LED

6-Inch Round or Square
Cylinder Downlight

D2W™



ORDERING INFORMATION

EXAMPLE: LSR6A15D010TEMB ERCN6A15930 6LN0LI=6" LED Medium Beam Reflector Lens, 1500 Lumen 3,500 K Color with Universal 120 - 277V, 0 - 10 Driver

| Housing | Lumens ¹ | Driver | Cylinder Finish | Power Module | Lumens | CRI | Color |
|--|--|--|---|--|--|--------------------------------------|--|
| LSR6A =6" Aperture, Surface Mount LSSQ6A =6" Aperture, Surface Mount Square | 10 =1000 Lumens 15 =1500 Lumens 20 =2000 Lumens | 1000, 1500, or 2000 Lumen D010TE =120-277V 0-10V 10% Dimming or Trailing Edge 120V Dimming DL3 =1 to 100% Dimming, 120-277V Lutron® Hi-Lume, Ecosystem or 3 Wire DLT =1 to 100% Dimming, 120V Lutron® Hi-Lume Forward Phase Dimming 1000 or 1500 Lumen DE010 =120-277V 0-10V 1% Dimming D5LT =Fifth Light® (Dali) Dimming DMX =DMX Driver | P =White MB =Matte Black SL =Painted Silver BZ =Bronze | ERCN6A =6" Module for Narrow Beam Reflector ERCM6A =6" Module for Medium Beam Reflector ERCW6A =6" Module for Wide Beam Reflector | 10 =1000 Lumens 15 =1500 Lumens 20 =2000 Lumens | 8 =80 CRI 9 =90 CRI | 27 =2700° K 30 =3000° K 35 =3500° K 40 =4000° K 30D2W = Dim to warm 3000° K to 1850° K (2000 lumen and below, 90 CRI) |

| Reflector | Finish | Accessories |
|--|---|--|
| 6LN0 =6" Narrow Reflector 6LM0 =6" Medium Reflector 6LW0 =6" Wide Reflector 6LW110 =6" Wide Reflector, Wall Wash 6LM110 =6" Medium Reflector, Wall Wash | LI =Specular Clear H =Semi-Specular Clear WMH =Warm Haze G =Specular Gold WH =Wheat WHH =Wheat Haze GP =Graphite GPH =Graphite Haze B =Specular Black W =Gloss White | Pendant Kit for Round P836P =Pendant Kit, White, 36" P836BZ =Pendant Kit, Bronze, 36" P836MB =Pendant Kit, Matte Black, 36" P836SL =Pendant Kit, Painted Silver, 36" Aircraft Cable for Round AC120P =120" Aircraft Cable- White AC48P =48" Aircraft Cable- White AC120MB =120" Aircraft Cable- Black AC48MB =48" Aircraft Cable- Black Type 3C =3 conductor for use with 120V or 277V 2-wire dimming Blank =5 conductor for use with 0-10V dimming drivers 6C =6 conductor for use with DL3 3-wire dimming drivers 5C =5 conductor for use with D5LT drivers DMX =No Conductors for use with DMX driver ² |

Example: AC48PDMX = 48" cable with white cord for use with DMX driver

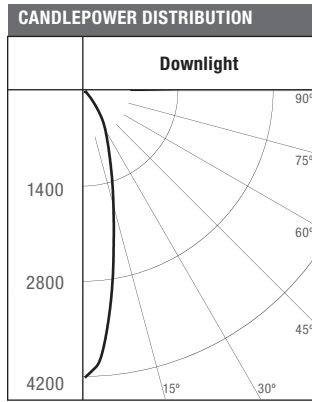
Notes: 1- Nominal Lumens will vary depending on selected color, driver and reflector finish.
 2- Not available with aircraft cable.

ENERGY

| ENERGY DATA | | | |
|---|--------------------------|---|--------------------------|
| 0-10V / Trailing Edge | | | |
| Sound Rating: Class A standards | | | |
| (Values at non-dimming line voltage) | | | |
| EMI/RFI: FCC Title 47 CFR, Part 18, Class B (Consumer) | | | |
| 2000 Lumen | | 1500 Lumen | |
| Input Voltage: UNV (120V - 277V) | | Input Voltage: UNV (120V - 277V) | |
| Power Factor: >0.90 (at nominal input 120/230/240/277 VAC & 100% of Rated Output Power) | | Power Factor: >0.90 (at nominal input 120/230/240/277 VAC & 100% of Rated Output Power) | |
| Input Power: 31.5W | THD: <20% | Input Power: 22.4W | THD: <20% |
| 120V Input Current: .27A | 277V Input Current: .12A | 120V Input Current: .12A | 277V Input Current: .09A |
| Input Frequency: 50/60Hz | | Input Frequency: 50/60Hz | |
| Rated Wattage: 33.6W | | Rated Wattage: 22.6W | |
| 1000 Lumen | | | |
| Minimum Starting Temperature: -30°C (-22°F) | | | |
| Input Voltage: 120 - 277V | | | |
| Power Factor: >0.90 | | | |
| Input Power: 14.1W | THD: <20% | | |
| 120V Input Current: .12A | 277V Input Current: .06A | | |
| Input Frequency: 50/60Hz | | | |
| Rated Wattage: 14.7W | | | |

| Lumens | 120V | | 277V | |
|-----------|------------|---------------|------------|---------------|
| | Inrush (A) | Duration (ms) | Inrush (A) | Duration (ms) |
| 900/1000 | 0.486 | 0.4 | 0.848 | 0.162 |
| 1300/1500 | 0.717 | 1.58 | 0.531 | 1.24 |
| 1800/2000 | 0.832 | 0.405 | 1.25 | 0.788 |
| 2800/3000 | 1.09 | 0.3 | 1.23 | 0.294 |

PHOTOMETRICS



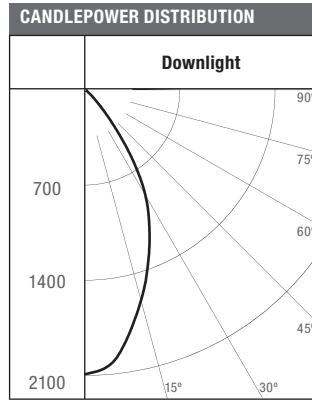
| | |
|-------------|--------------------------------|
| Test Number | P98989 |
| Element | LS6A15D010TE ERN6A15835 6LNOLI |
| Lumens | 1407 Lm |
| Efficacy | 62.8 Lm/W |
| Watts | 22.4 W |
| CCT | 3500K |
| SC | 0.4 |

| CONE OF LIGHT | | |
|-----------------------------------|------------------------------|---------------|
| Distance Fixture to Lighted Plane | Initial Footcandles at Nadir | Beam Diameter |
| 7' | 84 | 3 |
| 8' | 64 | 3 |
| 9' | 50 | 3 |
| 10' | 41 | 4 |
| 15' | 18 | 6 |

| CANDELA TABLE | |
|------------------|---------|
| Degrees Vertical | Candela |
| 0 | 4100 |
| 5 | 3545 |
| 15 | 1639 |
| 25 | 799 |
| 35 | 362 |
| 45 | 43 |
| 55 | 3 |
| 65 | 1 |
| 75 | 0 |
| 85 | 0 |
| 90 | 0 |

| ZONAL LUMEN SUMMARY | | |
|---------------------|--------|----------|
| Zone | Lumens | %Fixture |
| 0-30 | 1136 | 81 |
| 0-40 | 1359 | 100 |
| 0-60 | 1405 | 100 |
| 0-90 | 1407 | 100 |
| 90-180 | 0 | 0 |
| 0-180 | 1407 | 100 |

| LUMINANCE | |
|-------------------------|----------------------|
| Average Candela Degrees | Average 0° Luminance |
| 45 | 4004 |
| 55 | 341 |
| 65 | 154 |
| 75 | 0 |
| 85 | 0 |



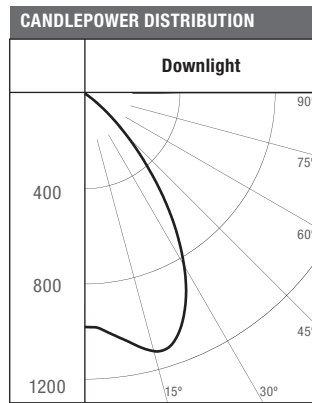
| | |
|-------------|--------------------------------|
| Test Number | P98953 |
| Element | LS6A15D010TE ERM6A15835 6LMOLI |
| Lumens | 1464 Lm |
| Efficacy | 65.3 Lm/W |
| Watts | 22.4 W |
| CCT | 3500K |
| SC | 0.8 |

| CONE OF LIGHT | | |
|-----------------------------------|------------------------------|---------------|
| Distance Fixture to Lighted Plane | Initial Footcandles at Nadir | Beam Diameter |
| 7' | 41 | 5 |
| 8' | 32 | 6 |
| 9' | 25 | 7 |
| 10' | 20 | 8 |
| 15' | 9 | 12 |

| CANDELA TABLE | |
|------------------|---------|
| Degrees Vertical | Candela |
| 0 | 2019 |
| 5 | 2040 |
| 15 | 1809 |
| 25 | 1081 |
| 35 | 376 |
| 45 | 31 |
| 55 | 4 |
| 65 | 1 |
| 75 | 1 |
| 85 | 0 |
| 90 | 0 |

| ZONAL LUMEN SUMMARY | | |
|---------------------|--------|----------|
| Zone | Lumens | %Fixture |
| 0-30 | 1183 | 81 |
| 0-40 | 1425 | 98 |
| 0-60 | 1462 | 100 |
| 0-90 | 1464 | 100 |
| 90-180 | 0 | 0 |
| 0-180 | 1464 | 100 |
| 0-180 | 1407 | 100 |

| LUMINANCE | |
|-------------------------|----------------------|
| Average Candela Degrees | Average 0° Luminance |
| 45 | 2823 |
| 55 | 444 |
| 65 | 154 |
| 75 | 252 |
| 85 | 0 |



| | |
|-------------|--------------------------------|
| Test Number | P99053 |
| Element | LS6A15D010TE ERW6A15835 6LWOLI |
| Lumens | 1506 Lm |
| Efficacy | 66.9 Lm/W |
| Watts | 22.4 W |
| CCT | 3500K |
| SC | 1.2 |

| CONE OF LIGHT | | |
|-----------------------------------|------------------------------|---------------|
| Distance Fixture to Lighted Plane | Initial Footcandles at Nadir | Beam Diameter |
| 7' | 21 | 8 |
| 8' | 16 | 9 |
| 9' | 13 | 11 |
| 10' | 10 | 12 |
| 15' | 5 | 18 |

| CANDELA TABLE | |
|------------------|---------|
| Degrees Vertical | Candela |
| 0 | 970 |
| 5 | 991 |
| 15 | 1109 |
| 25 | 992 |
| 35 | 643 |
| 45 | 259 |
| 55 | 38 |
| 65 | 2 |
| 75 | 1 |
| 85 | 0 |
| 90 | 0 |

| ZONAL LUMEN SUMMARY | | |
|---------------------|--------|----------|
| Zone | Lumens | %Fixture |
| 0-30 | 859 | 57 |
| 0-40 | 1256 | 84 |
| 0-60 | 1502 | 100 |
| 0-90 | 1506 | 100 |
| 90-180 | 0 | 0 |
| 0-180 | 1506 | 100 |
| 0-180 | 1407 | 100 |

| LUMINANCE | |
|-------------------------|----------------------|
| Average Candela Degrees | Average 0° Luminance |
| 45 | 23878 |
| 55 | 4288 |
| 65 | 324 |
| 75 | 252 |
| 85 | 0 |

MULTIPLICATION FACTORS

| CCT Multiplication Factors | CCT [K] | Multiplier from 3500K | 80 -> 90 CRI |
|----------------------------|---------|-----------------------|--------------|
| 80 CRI | 2700 | 0.93 | |
| | 3000 | 0.99 | |
| | 3500 | 1.00 | |
| | 4000 | 1.01 | |
| 90 CRI | 2700 | 0.88 | 0.79 |
| | 3000 | 0.94 | 0.80 |
| | 3500 | 1.00 | 0.84 |
| | 4000 | 1.03 | 0.85 |