4" & 6" LED DOWNLIGHT
SPECIFICATION GRADE LED RECESSED DOWNLIGHTS

- Optically engineered to balance visual comfort while maintaining maximum output
- Available in New Construction, Insulated Ceiling, Air-Tight and Remodel Housings
- Full line of trims available to complement your space; designed for maximum lumen output
What Sets Us Apart

Innovation
We combine the latest energy efficient technology and design styles to create an extensive range of attractive and sustainable luminaires. We have over 5,000 products, including many high performance products that can’t be found anywhere else. Our EcoTechnology solutions offer sustainable energy solutions that meet the qualitative needs of the visual environment with the least impact on the physical environment.

Sustainability
At Con-Tech Lighting, our commitment to the environment is as important as our commitment to innovation, quality and our customers. We believe that lighting can be environmentally responsible and energy efficient, while providing high-quality performance and outstanding aesthetic design. EcoTechnology applies to our daily operation as well as to our products; from materials, manufacturing and transportation to the disposal process for our products and by-products.

Quality
We use the best components and manufacturing methods resulting in the highest quality fixtures. From cast housings and high performance reflectors, to the testing of each ballasted fixture before it ships, Con-Tech Lighting is defined by its quality. For consistency, we use only the most reliable LED chip makers including Cree, Nichia, Lumileds, Bridgelux and Sharp.

Service
Our responsive, personalized customer focus, and market expertise represents an oasis of outstanding service in an industry that values it, but frequently doesn’t receive it. We are here for you, live and in person, Monday through Friday 7:30am – 5:30pm CST.

Product Availability and SpeedShip™
Our products are in stock and ready to ship. Our unique SpeedShip™ process helps us toward our goal of shipping 100% of placed orders within 48 hours; at no additional cost to you.

Market Expertise
Each market has its own unique lighting challenges. Designs can get tricky, having to verify every fixture, test every connector and make certain that every length of track is just right. We have an experienced staff of sales professionals to assist you with your projects from concept to completion.

Con-Tech Lighting Awards
The Con-Tech Lighting Awards recognize and honor the excellent work of designers, architects, engineers and contractors. Entries are judged on creativity, originality and effective use of Con-Tech products. For more information and to submit entries online, go to www.contechlighting.com/application_gallery/entryform.aspx.
Introducing the 4" and 6" families of LED recessed downlights. Leveraging the latest advances in SSL technology, these downlights have been engineered from the ground up to push performance and optical quality higher than ever.

Delivering over 2000 lumens while consuming only 29W, the 4" models deliver outstanding efficacy of 71 lumens per watt.

The 6" family delivers over 2700 lumens, with an excellent efficiency of 60 lumens per watt.

Through efficiency, light output and reduced consumption, these fixtures directly contribute to reduced cost of material, labor and energy. With a full offering of housings and trims, the Specification Grade LED Downlights have a product to suit your downlight specification needs.

• High light levels:
   4" replaces a 42W CFL, 6" replaces a 39W CMH
• Excellent visual comfort with low glare design
• Single LED array and optics designed to deliver superior beam field appearance
• Full dimming capability to 1%
• Die cast heat sink
• Extremely long life, 50,000 hours to L70
• Modular light engine design
• Extensive housing selection
• Excellent fixture-to-fixture color consistency with 3-step MacAdam Ellipse tolerance
• Color Rendering Index (CRI) of 80, minimum
• Color temperatures of 2700K, 3000K and 3500K
• Extensive trim selection
• Reduced energy consumption
• Reduced maintenance
• Reduced operating cost
• Sustainable fixture: recyclable, RoHS compliant, no UV, IR or Mercury
• 5 Year complete warranty
LED Technology provides designers with many distinct advantages over other light sources including size, efficiency and color, provided the LED is designed into the fixture properly. A system approach to fixture design is required to maximize the advantages LED technology has to offer. The key parts of the luminaire design include thermal management, optical performance, color consistency, electrical management and the LED itself. At Con-Tech Lighting, all the key parts of the system are properly balanced to maximize the benefits of this technology.

**PRODUCT FEATURES**

1. **LED LIGHT ENGINE**

   By utilizing the latest in LED chip array technology, the 4” and 6” LED downlights are able to deliver best in class lumen output and efficacy. The LED is constructed of 168 individual diodes that, when driven at a low current, result in a highly efficient system. The single LED package provides a single point source that can be shaped and optimized through our optically engineered reflectors. Available in three (3) color temperatures: 2700K, 3000K and 3500K with a minimum Color Rendering Index (CRI) of 80. 3-Step MacAdam Ellipse ensures color consistency between fixtures.

2. **THERMAL MANAGEMENT**

   Die-cast aluminum heat sink thermally engineered to maintain an optimal LED junction temperature well within the LED manufacturers recommended operating range ensuring long life and consistent color temperature. By fully optimizing the thermal design; we balanced the desire for maximum light output without sacrificing the light quality and maximum life, enabling the fixture to exceed 70% lumen maintenance at 50,000 hours.

3. **HOUSING**

   Our family of LED downlights features a full line of housings to choose from including New Construction, Insulated Ceiling, StopAire®/Chicago Plenum and Remodel. The StopAire®/Chicago Plenum housing meets the restricted airflow requirements per ASTM E283 and conforms to Washington State Energy Code for low air infiltration. The housings are all constructed of specification grade galvanized steel and are designed for easy installation. cCSAus certified for through-branch wiring and damp locations.

4. **HANGER BARS**

   Dual nailer hanger bars enable easy installation and are adjustable for 16” and 24” center joists or may be extended to rest on T-bar ceilings.

5. **LED DRIVERS/DIMMING**

   There are three (3) different dimming options available for the Specification Grade LED Downlight family. The Hi-Lume 2-Wire dimming system by Lutron provides high quality dimming down to 1%. 0-10V Dimming is our standard driver option; 0-10V Dimming has been widely available on downlights for years and provides dimming capability down to 15%. Standard TRIAC dimming is available as well, and provides dimming capability down to 10%.

6. **TRIMS**

   A complete offering of easy to install twist-and-lock trims are available. Each trim has been optically designed for use with the multi-chip LED array. The open downlight reflectors feature a traditional parabolic shape while providing superior glare control and cut-off. Designed to achieve a generous spacing criteria while providing even intensity and uniformity on the floor. In addition to the open downlights, an extensive selection of other trim options are available including baffles, wall washers, wet location and decorative glass.

7. **JUNCTION BOX**

   Once the fixture is installed, the J-Box is easily accessible through the fixture opening from below the ceiling. Certified for through-branch wiring.

All specifications subject to change without notice.
4” LED DOWNLIGHT
SPECIFICATION GRADE LED RECESSED DOWNLIGHTS

- 1000 Series LED Module delivers 1000 lumens with an input wattage rating of 16W
- 2000 Series LED Module delivers 2000 lumens with an input wattage rating of 29W

NEW CONSTRUCTION HOUSING

INSULATED CEILING HOUSING

STOPAIRE®/CHICAGO PLENUM HOUSING

REMODEL HOUSING

All specifications subject to change without notice.
ORDERING INFORMATION

**Housing**
- RA4LNC - New Construction
- RA4LC - Insulated Ceiling
- RA4LRM - Remodel
- RA4LSA - StopAire®/Chicago Plenum

**LED Module/Color Temp**
- **1000 Series**
  - 127K: 16W/2700K
  - 130K: 16W/3000K
  - 135K: 16W/3500K
- **2000 Series**
  - 227K: 29W/2700K
  - 230K: 29W/3000K
  - 235K: 29W/3500K

**Driver/Dimming**
- 12D1: 120V TRIAC Dimming
- 12D2: 120V Non-Dimming
- 12D3: 120V Lutron Hi-Lume Dimming
- 27D2: 277V Non-Dimming/0-10V Dimming

**Trim Type**
- All Others - Leave Blank
- W - Wall Wash

**Battery Back Up**
- NC Housings Only
  - No Battery Back Up
  - Leave Blank
- EBL - Factory Installed
  - 7W/300mA Emergency Battery Back Up

**CSA Listing**
- • Listed for use in Canada

**Options**
- RL-KIT - Commercial Mounting Brackets
- HB-24 - Flat hanger set for use with RL-KIT. Length: 27"
- HBC-24 - C-channel hanger bar set for use with RL-KIT in grid ceiling construction. Length: 25"
- HBC-30 - T-Bar Hanger Set

Reflector Finishes:
- B (black), -CLR (clear reflector), -P (white), -PL (matte platinum), -WHT (white reflector);

Acrylic Ring Finishes:
- B (blue), -F (frosted), -G (green), -R (red), -Y (yellow)

All specifications subject to change without notice.
### Dimming Compatibility

<table>
<thead>
<tr>
<th></th>
<th>New Construction</th>
<th>Insulated Ceiling</th>
<th>StopAire®</th>
<th>Remodel</th>
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<tbody>
<tr>
<td>120V TRIAC Dimming</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
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<tr>
<td>120V Non-Dimming/0-10V Dimming</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>120V Lutron HiLume® Dimming</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>277V Non-Dimming/0-10V Dimming</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Battery Back-Up</td>
<td>X</td>
<td>X</td>
<td></td>
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</tbody>
</table>

### Annual Operating LED Cost Benefits

<table>
<thead>
<tr>
<th></th>
<th>CON-TECH LED</th>
<th>CFL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Luminaire Comparison</strong></td>
<td>Luminaire 4&quot; RA4LNC-230K12D2/CST4322L-CLR</td>
<td>6&quot; CST6422-CLR (42W CFL)</td>
</tr>
<tr>
<td>Lamp Life (Hours)</td>
<td>50,000</td>
<td>12,000</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>29W</td>
<td>46W</td>
</tr>
<tr>
<td>Delivered Lumens</td>
<td>2056</td>
<td>1564</td>
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<tr>
<td>Luminaire Efficacy</td>
<td>71 lm/w</td>
<td>34 lm/w</td>
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<tr>
<td>Spacing Criterion</td>
<td>1.3</td>
<td>1.2</td>
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<tr>
<td>Warranty</td>
<td>5 YEARS</td>
<td>1 YEAR</td>
</tr>
</tbody>
</table>

**Installation Example¹**

<table>
<thead>
<tr>
<th></th>
<th>CON-TECH LED</th>
<th>CFL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Fixtures</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Average Illumination</td>
<td>69.5 fc</td>
<td>52.4 fc</td>
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<tr>
<td>Uniformity Ratio (Max/Min)</td>
<td>2.2</td>
<td>2.1</td>
</tr>
<tr>
<td>Watts/Square Foot</td>
<td>1.1</td>
<td>1.8</td>
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<tr>
<td>Annual Energy Cost/Fixture²</td>
<td>$12.70</td>
<td>$20.15</td>
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<tr>
<td>Annual Relamping Labor Cost/Fixture³</td>
<td>$0.00</td>
<td>$6.21</td>
</tr>
<tr>
<td>Annual Operating and Labor Cost</td>
<td>$203.23</td>
<td>$421.65</td>
</tr>
</tbody>
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1. Installation example based on a 20’ x 20’ space with 9’ ceilings, calculation grid at 36” A.F.F.
2. Total input watts x 12 hours/day x 365 days/year x $0.10/kwh/1000
3. Replacement cost per lamp x annual hours of operation/lamp life

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Annual operating cost reduced 52% over CFL
Annual operating cost reduced 75% over Incandescent
6" LED DOWNLIGHT

SPECIFICATION GRADE LED RECESSED DOWNLIGHTS

- 1000 Series LED Module delivers 1000 lumens with an input wattage rating of 16W
- 2000 Series LED Module delivers 2000 lumens with an input wattage rating of 29W
- 2700 Series LED Module delivers 2700 lumens with an input wattage rating of 45W

NEW CONSTRUCTION HOUSING

STOPAIRE®/CHICAGO PLENUM HOUSING

INSULATED CEILING HOUSING

REMODEL HOUSING

All specifications subject to change without notice.
RA6L 6" LED DOWNLIGHT SERIES TRIMS

ORDERING INFORMATION

Housing  LED Module/Color Temp  Driver/Dimming  Trim Type  Battery Back Up  CSA Listing

RA6LNC - New Construction
RA6LIC - Insulated Ceiling
RA6LRM - Remodel
RA6LSA - StopAire®/Chicago Plenum
RA6LNC: 1000 Series
427K - 16W/2700K
430K - 16W/3000K
435K - 16W/3500K
RA6LIC: 2000 Series
527K - 29W/2700K
530K - 29W/3000K
535K - 29W/3500K
2700 Series
627K - 45W/2700K
630K - 45W/3000K
635K - 45W/3500K

CTR6321L2-(CLR, WHT)-P
Two piece reflector: clear or white upper reflector, clear or platinum lower cone; Includes (1) LF38-CL glass lens. OD: 7-1/16"; ID: 5-3/4". Approved for use in U.S. and Canada.

CTR6327L2-(CLR, WHT)-(CLR, PL)
Two piece reflector: clear or white upper reflector, clear or platinum lower cone; recessed prismatic convex lens; 1-1/2" regressed. Wet Location Listed. OD: 7-1/16"; ID: 5-3/4". Approved for use in U.S. and Canada.

CTR6323L2-(CLR, WHT)
Lensed Wall Wash Trim; Clear, Platinum or White Reflector. OD: 7-1/4"; ID: 5-5/8". Approved for use in U.S. and Canada.

CTR6326L2-(CLR, WHT)-P
Floating glass disc; clear or white reflector. 1-1/4" Drop from ceiling. Glass OD: 7-7/8". Approved for use in U.S. and Canada.

CTR6327L2-(CLR, WHT)-(B, P)
Two piece reflector with lens: Clear or white upper reflector, black or white lower baffle with recessed prismatic convex glass lens; 1-1/2" regressed. Wet Location Listed. OD: 7-1/16"; ID: 5-3/4". Approved for use in U.S. and Canada.

CTR6324L2-(CLR, WHT)-P
Stacked floating colored acrylic rings; clear or white reflector. 1-1/4" Drop from ceiling. Glass OD: 7-7/8". Approved for use in U.S. and Canada.

Reflector Finishes: -B (black), -CLR (clear), -P (white), -PL (matte platinum), -WHT (white reflector);
Acrylic Ring Finishes: -B (blue), -F (frosted), -G (green), -R (red), -Y (yellow)

1. IC Housing with the 2000 Series LED Module is only available with the 12D1 and 12D2 Driver/Dimming options.
2. Not available for IC or SA models.
3. 12D1 driver option is available on the 1000 Series LED Module only.
4. 12D3 Driver/Dimming is not approved for use in Canada.
5. MUST use cCSAus compliant trim.

Battery Back Up
NC Housings Only
- No Battery Back Up
EFL - Factory Installed 7W/300mA Emergency Battery Back Up (Not available for 2700 Series)

Options
RL-KIT - Commercial Mounting Brackets
HB-24 - Flat hanger set for use with RL-KIT. Length: 27"
HBC-24 - C-channel hanger bar set for use with RL-KIT in grid ceiling construction. Length: 25"
HBC-30 - T-Bar Hanger Set

All specifications subject to change without notice.
### DIMMING COMPATIBILITY

<table>
<thead>
<tr>
<th></th>
<th>New Construction</th>
<th>Insulated Ceiling</th>
<th>StopAire®</th>
<th>Remodel</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V TRIAC Dimming</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>120V Non-Dimming/0-10V Dimming</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>120V Lutron HiLume® Dimming</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>277V Non-Dimming/0-10V Dimming</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Battery Back-Up</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### ANNUAL OPERATING LED COST BENEFITS

#### LUMINAIRE COMPARISON

<table>
<thead>
<tr>
<th></th>
<th>CON-TECH LED</th>
<th>CMH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminaire</td>
<td>6’ RA6LNC-630K12D2/CST6322L2-CLR</td>
<td>6’ CST46F-CLR (39W CMH)</td>
</tr>
<tr>
<td>Lamp Life (Hours)</td>
<td>50,000</td>
<td>15,000</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>45W</td>
<td>46W</td>
</tr>
<tr>
<td>Delivered Lumens</td>
<td>2708</td>
<td>2161</td>
</tr>
<tr>
<td>Luminaire Efficacy</td>
<td>60 lm/w</td>
<td>47 lm/w</td>
</tr>
<tr>
<td>Spacing Criterion</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Warranty</td>
<td>5 YEARS</td>
<td>1 YEAR</td>
</tr>
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</table>

#### INSTALLATION EXAMPLE1

<table>
<thead>
<tr>
<th></th>
<th>CON-TECH LED</th>
<th>CMH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Fixtures</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Average Illumination</td>
<td>57.2 fc</td>
<td>47.5 fc</td>
</tr>
<tr>
<td>Watts/Square Foot</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Annual Energy Cost/Fixture²</td>
<td>$19.71</td>
<td>$20.15</td>
</tr>
<tr>
<td>Annual Relamping Labor Cost/Fixture³</td>
<td>$0.00</td>
<td>$6.72</td>
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<tr>
<td>Annual Operating and Labor Cost</td>
<td>$177.39</td>
<td>$241.78</td>
</tr>
</tbody>
</table>

Annual operating cost reduced 27% over CFL

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1. Installation example based on a 20’ x 20’ space with 9’ ceilings, calculation grid at 36” A.F.F.
2. Total input watts x 12 hours/day x 365 days/year x $0.10/kwh/1000
3. Replacement cost per lamp x annual hours of operation/lamp life

All specifications subject to change without notice.
LED DOWNLIGHT DIMMING CAPABILITY

The following Con-Tech Recessed LED Products are compatible with the dimmers listed below.

4" and 6" 1000 Series: Standard, 0-10V DC and LUTRON Hi-lume® Dimming
4" and 6" 2000 Series: 0-10V DC and LUTRON Hi-lume® Dimming
6" 2700 Series: 0-10V DC and LUTRON Hi-lume® Dimming

STANDARD TRIAC DIMMING (4" 1000 SERIES and 6" 1000 SERIES)

120V AC Dimming: Incandescent (INC) and Magnetic Low Voltage (MLV) Dimmers

Standard 120V AC line voltage dimmers for incandescent and magnetic low voltage loads adjust the light with “forward phase control,” where the dimmer “chops” the forward part of the AC wave to deliver less or more power to the light source. No neutral wire connection required.

These systems are typically dimmable to 10%. LED Dimming performance may vary based on dimmer model, manufacturer, circuit wiring and circuit loading. Consult dimmer manufacture for the latest dimmer information.

Recommended Dimmers

Standard Dimmers:
- Lutron Skylark Series (Part #s S-600, S2-LH)
- Lutron Maestro Series (Part # MAW-600)
- Cooper Aspire Series (Part # 9530XXX)
- Leviton Illumitech Series (Part # CPI06-XXX)
- Leviton SureSlide Series (Part # 6631)
- Leviton True Torch Series (Part # 6606-1LM)

Electronic Low Voltage Dimmers:
- Lutron Nova T Series (Part # NTELV-600)
- Lutron Faedra (Part # FAELV-500-XX)
- Leviton Acenti (Part # ACE06-XXX)

Dimmer maximum load rating with LED may differ from published traditional source dimmer ratings. Consult manufacturer for maximum dimmer information.

0-10V DC DIMMING (4" 1000 and 2000 SERIES; 6" 1000, 2000 and 2700 SERIES)

0-10V DC Dimming is a common type of dimming for many commercial applications. Many local codes require the contractor to separate the low and line voltage wiring in the junction box. 0-10V DC Low voltage dimming operates using two low voltage dimming wires that are separate from the 120V or 277V AC power. The 0-10V dimmer switch sends a variable output voltage to the fixture based upon the dimming level. 10V Corresponds to undimmed operation, 5V to 50% and so on. Switching on/off is controlled with the line voltage power (120V or 277V AC) input to the dimmer and then dimming operation is controlled with the 0-10V DC low voltage wiring connection between the dimmer and the LED driver. The control signal runs on two low voltage control wires (color coded violet and gray).

These systems are typically dimmable to 15%. LED Dimming performance may vary based on dimmer model, manufacturer, circuit wiring and circuit loading. Consult dimmer manufacture for the latest dimmer information.

Recommended Dimmers
- Lutron DVT
- Leviton IP710

LUTRON Hi-lume® DIMMING (4" 1000 and 2000 SERIES; 6" 1000, 2000 and 2700 SERIES)

Lutron Hi-lume® LED A-Series drivers offer high-performance, continuous dimming from 1% - 100%. For a complete list of compatible dimmers and controls, please visit www.lutron.com.

NOTES:
- Consult factory for additional dimming information.
- Testing has been performed on these dimmers, but this does not imply any warranty of compatibility.
Light Output (Fixture Delivered Lumens): 948
Total Watts@120V: 16.5
Lumens Per Watt: 58
Color Rendering Index (CRI): 84
Color Temperature (CCT): 3073K Warm White
Spectral Power Distribution Chart

Candlepower Summary
FROM 0 CANDELA LUMENS
0  737
15  803  227
25  805  364
35  419  246
45  30    27
55  9     9
65  3     3
75  1     1
85  0     0
95  0

Intensity Distribution
DISTANCE FOOTCANDLES BEAM DIAMETER
6'  20.5    7.7
8'  11.5    10.2
10'  7.4    12.8
12'  5.1    15.3
14'  3.8    17.9
16'  2.9    20.5

Beam Distribution: 72°
Spacing Criteria:  1.28

Color Rendering Index (CRI): 84
Color Temperature (CCT): 3073K Warm White
Spectral Power Distribution Chart

Candlepower Summary
FROM 0 CANDELA LUMENS
0  952
15  888  83
25  773  220
35  694  316
45  572  225
55  43    98
65  21    21
75  5     5
85  1     1
95  0     0

Intensity Distribution
DISTANCE FOOTCANDLES BEAM DIAMETER
6'  26.4    6.0
8'  14.9    8.1
10'  9.5    10.1
12'  6.6    12.1
14'  4.9    14.1
16'  3.7    16.1

Beam Distribution: 68°
Spacing Criteria:  1.01

1. Accuracy of rendering colors
2. Color appearance of light source
3. Colors present within the light source

Designed for 50,000 Hour Lamp Life*

*Dependent on surrounding temperatures

All specifications subject to change without notice.
**RA4LNC-230K12D2 with CST4322L-CLR**

- **Designed for 50,000 Hour Lamp Life**

**Light Output (Fixture Delivered Lumens): 2056**
**Total Watts@120V: 28.6**
**Lumens Per Watt: 72**
**Color Rendering Index (CRI): 83**
**Color Temperature (CCT): 3079K Warm White**

**Spectral Power Distribution Chart**

**Intensity Distribution**

<table>
<thead>
<tr>
<th>DISTANCE (FT)</th>
<th>FOOTCANDLES (FC)</th>
<th>BEAM DIAMETER (FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'</td>
<td>43.1</td>
<td>7.7</td>
</tr>
<tr>
<td>8'</td>
<td>24.3</td>
<td>10.3</td>
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<tr>
<td>10'</td>
<td>15.5</td>
<td>12.9</td>
</tr>
<tr>
<td>12'</td>
<td>10.8</td>
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<td>14'</td>
<td>7.9</td>
<td>18.0</td>
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<tr>
<td>16'</td>
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<td>20.6</td>
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Beam Distribution: 72°
Spacing Criteria: 1.29

**Candlepower Summary**

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<thead>
<tr>
<th>FROM 0</th>
<th>CANDELA</th>
<th>LUMENS</th>
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<tr>
<td>0</td>
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<td>150</td>
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<td>15</td>
<td>1731</td>
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</tr>
<tr>
<td>95</td>
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</tr>
</tbody>
</table>

**Candela Curve**

**Typical Wavelength (nm)**

380 410 440 470 500 530 560 590 620 650 680 710 740 770

1. Accuracy of rendering colors
2. Color appearance of light source
3. Colors present within the light source

*Dependent on surrounding temperatures

**LM-79 Test No. 70358**

---

**RA4LNC-230K12D2 with CST4322L-PL**

- **Designed for 50,000 Hour Lamp Life**

**Light Output (Fixture Delivered Lumens): 1806**
**Total Watts@120V: 29.5**
**Lumens Per Watt: 61**
**Color Rendering Index (CRI): 82**
**Color Temperature (CCT): 3080K Warm White**

**Spectral Power Distribution Chart**

**Intensity Distribution**

<table>
<thead>
<tr>
<th>DISTANCE (FT)</th>
<th>FOOTCANDLES (FC)</th>
<th>BEAM DIAMETER (FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'</td>
<td>51.5</td>
<td>6.0</td>
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<tr>
<td>8'</td>
<td>29.0</td>
<td>8.0</td>
</tr>
<tr>
<td>10'</td>
<td>18.5</td>
<td>10.0</td>
</tr>
<tr>
<td>12'</td>
<td>12.9</td>
<td>12.1</td>
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<tr>
<td>14'</td>
<td>9.5</td>
<td>14.1</td>
</tr>
<tr>
<td>16'</td>
<td>7.2</td>
<td>16.1</td>
</tr>
</tbody>
</table>

Beam Distribution: 68°
Spacing Criteria: 1.0

**Candlepower Summary**

<table>
<thead>
<tr>
<th>FROM 0</th>
<th>CANDELA</th>
<th>LUMENS</th>
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</thead>
<tbody>
<tr>
<td>0</td>
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<tr>
<td>5</td>
<td>1525</td>
<td>161</td>
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<td>15</td>
<td>1502</td>
<td>428</td>
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<td>25</td>
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<td>35</td>
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<tr>
<td>95</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**Candela Curve**

**Typical Wavelength (nm)**

380 410 440 470 500 530 560 590 620 650 680 710 740 770

**LM-79 Test No. 70359**

---

**RA4LNC-230K12D2 with CST4322L-WHT**

- **Designed for 50,000 Hour Lamp Life**

**Light Output (Fixture Delivered Lumens): 1715**
**Total Watts@120V: 29**
**Lumens Per Watt: 59**
**Color Rendering Index (CRI): 83**
**Color Temperature (CCT): 3171K Warm White**

**Spectral Power Distribution Chart**

**Intensity Distribution**

<table>
<thead>
<tr>
<th>DISTANCE (FT)</th>
<th>FOOTCANDLES (FC)</th>
<th>BEAM DIAMETER (FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'</td>
<td>34.1</td>
<td>6.6</td>
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<tr>
<td>8'</td>
<td>19.2</td>
<td>8.9</td>
</tr>
<tr>
<td>10'</td>
<td>12.3</td>
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</tr>
<tr>
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<td>15.5</td>
</tr>
<tr>
<td>16'</td>
<td>4.8</td>
<td>17.7</td>
</tr>
</tbody>
</table>

Beam Distribution: 68°
Spacing Criteria: 1.11

**Candlepower Summary**

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<thead>
<tr>
<th>FROM 0</th>
<th>CANDELA</th>
<th>LUMENS</th>
</tr>
</thead>
<tbody>
<tr>
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<td>35</td>
<td>565</td>
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<td>45</td>
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<td>103</td>
<td>102</td>
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<tr>
<td>75</td>
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<td>12</td>
<td>14</td>
</tr>
<tr>
<td>95</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**Candela Curve**

**Typical Wavelength (nm)**

380 410 440 470 500 530 560 590 620 650 680 710 740 770

**LM-79 Test No. 72290**

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All specifications subject to change without notice.
RA4LNC-230K12D2 with CST432L-CLR-P

Light Output (Fixture Delivered Lumens): 1595
Total Watts@120V: 29
Lumens Per Watt: 55
Color Rendering Index (CRI): 82
Color Temperature (CCT): 3110K Warm White
Spectral Power Distribution Chart

Intensity Distribution

Footcandles on Wall

Beam Distribution: 66°
Spacing Criteria: 1.30

Photometric Report Test No. 71965

RA4LNC-230K12D2 with CTR4323L-CLR-P

Light Output (Fixture Delivered Lumens): 876
Total Watts@120V: 28.7
Lumens Per Watt: 31
Color Rendering Index (CRI): 81
Color Temperature (CCT): 3168K Warm White
Spectral Power Distribution Chart

Intensity Distribution

Footcandles on Wall

Beam Distribution: 66°
Spacing Criteria: 1.10

Photometric Report Test No. 72139

RA4LNC-230K12D2 with CTR4326L-CLR-P

Light Output (Fixture Delivered Lumens): 1730
Total Watts@120V: 29
Lumens Per Watt: 60
Color Rendering Index (CRI): 82
Color Temperature (CCT): 3138K Warm White
Spectral Power Distribution Chart

Intensity Distribution

Footcandles on Wall

Beam Distribution: 70°
Spacing Criteria: 1.30

Photometric Report Test No. 71563

1. Accuracy of rendering colors
2. Color appearance of light source
3. Colors present within the light source
RA6LNC630K12D2/CST6322L2-CLR

Light Output (Fixture Lumens): 2708
Total Watts@120V: 44.3
Lumens Per Watt: 61
Color Rendering Index (CRI): 81
Color Temperature (CCT): 3078K Warm White
Spectral Power Distribution Chart

Candlepower Summary

Intensity Distribution

RA6LNC630K12D2/CST6322L2-PL

Light Output (Fixture Lumens): 2574
Total Watts@120V: 44.3
Lumens Per Watt: 58
Color Rendering Index (CRI): 81
Color Temperature (CCT): 3091K Warm White
Spectral Power Distribution Chart

Candlepower Summary

Intensity Distribution

1. Accuracy of rendering colors
2. Color appearance of light source
3. Colors present within the light source

*Dependent on surrounding temperatures

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www.contechlighting.com

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