

# ULTRA RT6 LED Recessed Downlight Kit



The SYLVANIA ULTRA RT6 is a six-inch LED recessed downlight kit creating high performing white light and is optimized for new construction and retrofit applications. Installation is done quickly and easily in most standard six-inch Insulated Ceiling (IC) housings, Airtight (AT) housings and non-IC housings.

### Dimming

The SYLVANIA ULTRA RT Series luminaire is dimmable to 20% with standard 120V electronic low voltage dimmers (recommended), incandescent or magnetic low voltage dimmers. In some cases, standard incandescent dimmers require a minimum load of typically >40 watts on the circuit for full range dimming performance (four LED modules). For dimming with digital (smart) multi-location dimmers or when dimming fewer than four LED modules, Electronic Low Voltage (ELV) dimmers are required (some ELV dimmers need a neutral connection in the wallbox).

### Quality of Light

The SYLVANIA ULTRA RT Series provides excellent color rendering (82+ CRI), and a selection of color temperatures (2700K, 3000K).

## Key Features & Benefits

- Lumen package:
  - 625 lumens @ 11watts
- Replacement for 65BR30 incandescent lamps
- CCT: 2700K/3000K
- CRI of 82
- Dimmable to 20-100%
- 35,000 hour life (L<sub>70</sub>)
- Suitable for indoor and damp locations
- Reduces energy consumption up to 86%
- 120V input voltage
- Lasts 17 times longer than incandescent lamps
- No warm-up time, instant-on with full light output and stable lamp to lamp color
- Meets California Title 24 fixture requirements for high efficacy luminaire
- Integrated white trim and medium base socket adaptor (included) for direct replacement

LEDs have virtually no ultraviolet and minimal infrared wavelengths, and they do not emit heat like conventional lamps.

### Optical Design

Optical design yields productive beam lumens, 80° cutoff, and low glare.

## Product Offering

| Ordering Abbreviation         | Wattage | Color Temperature | THD | Power Factor |
|-------------------------------|---------|-------------------|-----|--------------|
| LED/625/RT6/827/FL80/WRFL/WTR | 11      | 2700K             | 60% | 0.81         |
| LED/625/RT6/830/FL80/WRFL/WTR | 11      | 3000K             | 60% | 0.81         |



This light source meets restrictions on hazardous substances.



## Application Information

### Applications

- Healthcare
- Hospitality
- Office
- Property Management
- Residential
- Retail



## Specification Data

|             |      |
|-------------|------|
| Catalog #   | Type |
| Project     |      |
| Comments    |      |
| Prepared by | Date |

## Specifications

### Energy Data

**Minimum Starting Temp:** 0° Celcius (32° F)  
**EMI/RFI:** FCC Title 47 CFR, Part 15, Class B (Consumer)  
**Sound Rating:** <24dBA  
**Input Voltage:** 120V  
**Power Factor:** 0.81  
**Input Frequency:** 60Hz  
**THD:** 60%  
**R9:** 15

**Rated Wattage:** 11W

**Input Power:** 11W

**Input Current:** 0.1A

**Maximum Insulated Ceiling (IC) Ambient Continuous Operating Temperature:** 30°C (86°F)

**Maximum Non-IC Ambient Continuous Operating Temperature:** 30°C (86°F)

### Lighting Data

**Lumen Output:** 625  
**Lumens per Watt:** 61  
**Watts at 120VAC:** 11

### Color

**Correlated Color Temperature (CCT):** 2700K-3000K  
**Color Rendering Index (CRI):** 82

## Ordering Information

| Item Number | Ordering Abbreviation         | Recessed Housing | Replaced Incandescent Wattage | Nominal Wattage (W) | Delivered Light Output (lm) | Color Temperature | CRI | THD | Power Factor | Avg. Rated Life (hrs)* | Packaging Configuration |
|-------------|-------------------------------|------------------|-------------------------------|---------------------|-----------------------------|-------------------|-----|-----|--------------|------------------------|-------------------------|
| 70654       | LED/625/RT6/827/FL80/WRFL/WTR | 6 in.            | 65W                           | 11                  | 625                         | 2700K             | 82  | 60% | 0.81         | 35,000                 | Box                     |
| 70653       | LED/625/RT6/830/FL80/WRFL/WTR | 6 in.            | 65W                           | 11                  | 625                         | 3000K             | 82  | 60% | 0.81         | 35,000                 | Box                     |

\* LED lamp life is defined as the number of hours when 50% of an average group of identical lamps reached 70% of its initial lumens.

## Ordering Guide

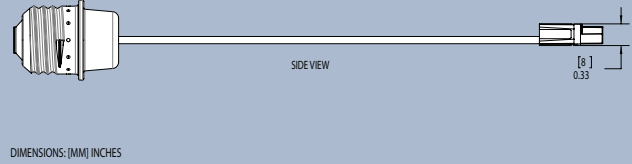
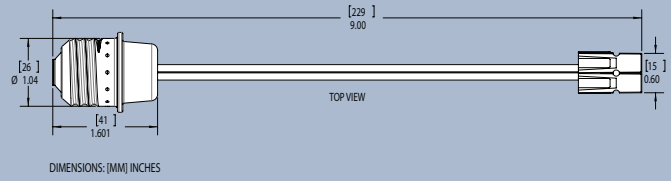
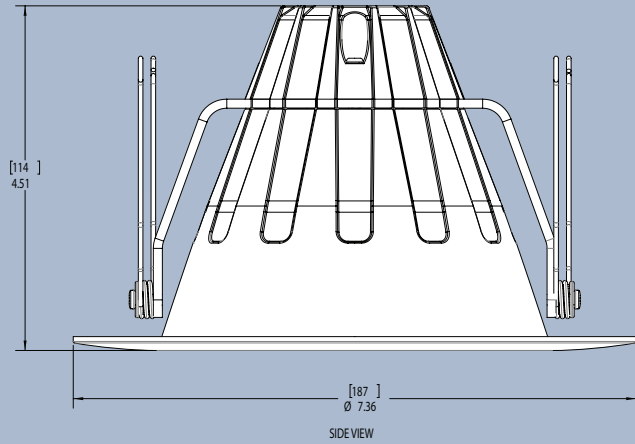
| LED | / | 625               | / | RT6                                   | / | 8      | 30                         | / | FL    | 80                       | / | WRFL            | / | WTR        |
|-----|---|-------------------|---|---------------------------------------|---|--------|----------------------------|---|-------|--------------------------|---|-----------------|---|------------|
| LED |   | Light Output (lm) |   | Product Name RT6<br>6=fits 6" housing |   | CRI=82 | Color Temperature<br>3000K |   | Flood | Beam Angle<br>80 degrees |   | White Reflector |   | White Trim |

## Energy Savings

| Basic Product Description | LED    |        | Traditional Lamp Types      | Lumens | Life | Watts Saved With RT6 | RT6 Energy Savings* | RT6 Life Benefit |
|---------------------------|--------|--------|-----------------------------|--------|------|----------------------|---------------------|------------------|
|                           | Lumens | Life   |                             |        |      |                      |                     |                  |
| RT6 11W                   | 625    | 35,000 | Incandescent 65BR30         | 640    | 2000 | 54                   | \$208               | 17X              |
|                           |        |        | Halogen 50WBR30/SS/HAL      | 585    | 2500 | 39                   | \$150               | 14X              |
|                           |        |        | Halogen 50PAR30LN/WFL       | 660    | 2500 | 39                   | \$150               | 14X              |
|                           |        |        | Compact Fluorescent 15WBR30 | 600    | 8000 | 4                    | \$15                | 4X               |

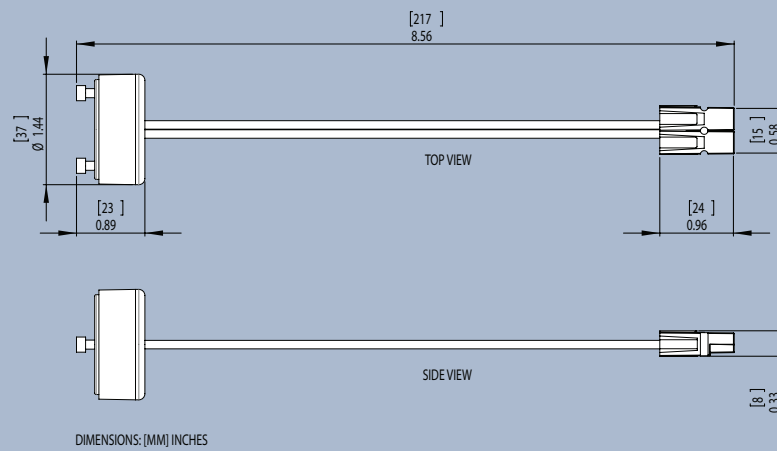
\* Based on \$0.11/Kwh, 3 hours a day

## Assembly Diagram

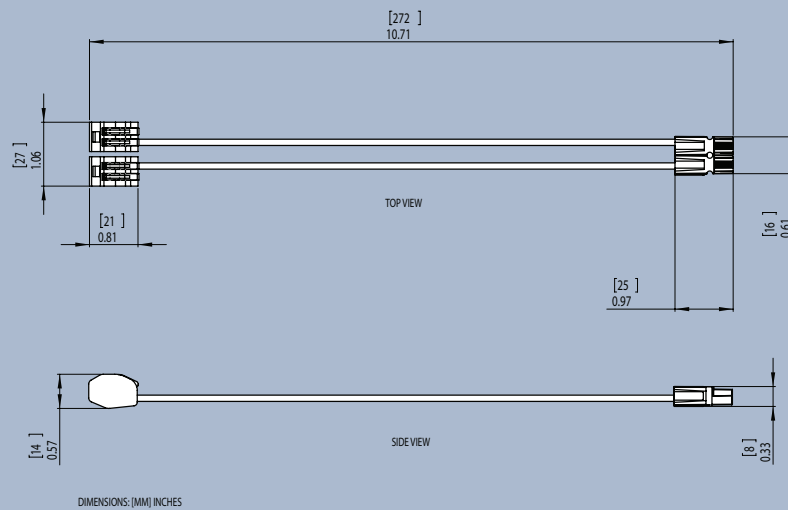


## Accessories

70650 LED/CRT6/GU24/SOCKET/ADAPTOR (sold separately)

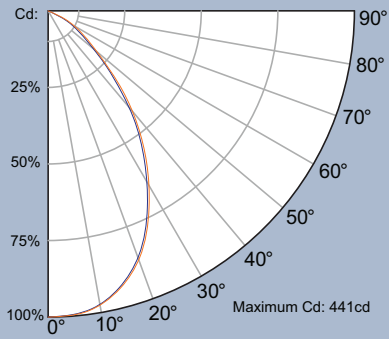


70657 LED/CRT6/RETROFIT/ADAPTOR (sold separately)



## Photometric Information

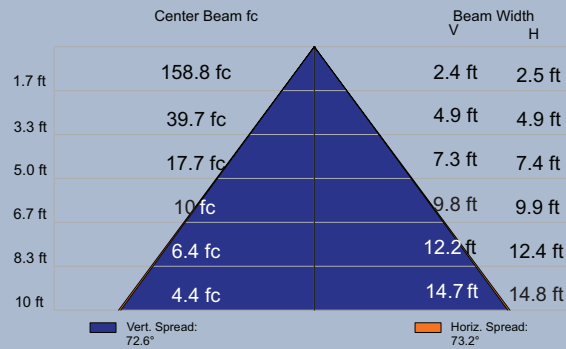
Polar Chart



Zonal Lumen Distribution

| Zone   | Lumens | % Fixture |
|--------|--------|-----------|
| 0-30   | 308.9  | 47.9      |
| 0-40   | 455.2  | 70.6      |
| 0-60   | 608.4  | 94.4      |
| 60-90  | 36.2   | 5.6       |
| 0-90   | 644.6  | 100.0     |
| 90-180 | 0.0    | 0.0       |
| 0-180  | 644.6  | 100.0     |

Illuminance at Distance



## Application Information

### Application Notes

1. Operating temperature range between -32°F and +86°F (-0°C and +30°C).
2. Suitable for use in indoor and damp location environments.
3. Suitable for dimmers or in housings controlled by a dimmer – see [www.sylvania.com/RT6](http://www.sylvania.com/RT6) for detailed dimmer compatibility list.
4. Not intended for use with emergency light fixtures or exit lights.
5. For use in housings that can structurally support a lamp weighing one pound.
6. Designed to install in standard 6" insulated and non-insulated housings. For a list of compatible housings, please refer to [www.sylvania.com/RT6](http://www.sylvania.com/RT6).
7. For detailed warranty information, please see [www.sylvania.com/RT6](http://www.sylvania.com/RT6).



To get the full LED story on your phone, snap a picture of this tag. (Requires a free mobile app from <http://gettag.mobi>)

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LED169R1

SYLVANIA

# lighting facts®

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|   |                     |
|---|---------------------|
| Light Output (Lumens)                             | 625                 |
| Watts   | 11                  |
| Lumens per Watt (Efficacy)                        | 61                  |
| Color Accuracy<br>Color Rendering Index (CRI)     | 82                  |
| Light Color<br>Correlated Color Temperature (CCT) | 3000 (Bright White) |

2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.

Registration Number: 5BZT-1D3NNC  
Model Number: LED/625/RT6/830FL80/WRF/WTR  
Type: Recessed downlight

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