

# ULTRA RT4 and RT4 Gimbal LED

## Recessed Downlight Kit



The SYLVANIA ULTRA RT4 unit is a four-inch LED recessed downlight kit creating high performing white light which is optimized for new construction and retrofit applications. Installation is done quickly and easily in most standard four-inch Insulated Ceiling (IC), Airtight (AT) and non-IC housings. The adjustable gimbal features a smooth travel from nadir to a 35° tilt, making it suitable for slanted ceilings and wall wash. The gimbal's friction blade design allows the downlight to be installed in any position within the housing aperture and the 360° horizontal rotation capability of the gimbal head offers easy aiming and adjustment.

### Dimming

The SYLVANIA ULTRA RT Series recessed downlight kits are dimmable to 10% 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 fixtures). For dimming with digital (smart) multi-location dimmers or when dimming fewer than four LED kits, Electronic Low Voltage (ELV) dimmers are required (some ELV dimmers need a neutral connection in the wallbox).

### Application Information

#### Applications

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

### Key Features & Benefits

- Lumen package:
  - 600 lumens @ 9 watts
- Replacement for 50W R20 incandescent lamps
- Fits into most 4" recessed downlight fixtures
- CCT: 2700K/3000K/4000K/5000K
- Beam angle: 80°
- CRI: Up to 90
- Dimmable down to 10%
- 50,000 hour life (L<sub>70</sub>)
- Suitable for indoor and outdoor dry, damp and wet locations
- Reduces energy consumption by up to 82% savings
- 120V input voltage
- Lasts up to 25 times longer than incandescent and halogen 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 white baffle reflector, medium base socket adaptor included for direct replacement
- Adjustable gimbal featuring 35° tilt and 360° rotation

### Quality of Light

The SYLVANIA ULTRA RT Series provides excellent color rendering (up to 90 CRI), and a selection of color temperatures (2700K, 3000K, 4000K and 5000K). LEDs have virtually no UV or infrared radiation to damage or fade furnishings, art or other objects.

### Optical Design

Optical design efficiently directs light output in an 80° beam angle with low glare.

### Accessories

Assorted color retrofit trims, GU24 socket adaptor, push wire adaptor.

### Product Offering

| Lumen Output | Wattage | Color Temperature          | CRI      |
|--------------|---------|----------------------------|----------|
| 600          | 9       | 2700K, 3000K, 4000K, 5000K | Up to 90 |

### Specifications and Certifications



Specification Data

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

Specifications

Energy Data

**Minimum Starting Temp:** -40°F (-40°C)  
**EMI/RFI:** FCC Title 47 CFR, Part 15, Class B  
**Sound Rating:** <24dBA  
**Input Voltage:** 120V  
**Power Factor:** >0.90  
**Input Frequency:** 60Hz  
**THD:** <20%

**Input Power:** 9W  
**Input Current:** 0.08A  
**Maximum Ambient Operating Temperature (Insulated Ceiling or Non-Insulated Ceiling):** 104°F (40°C)

Lighting Data

**Lumen Output:** 600  
**Lumens per Watt:** 67  
**Color**  
**Correlated Color Temperature (CCT):** 2700K, 3000K, 4000K & 5000K  
**Color Rendering Index (CRI):** Up to 90  
**R9:** 15

Ordering Information

| Item Number | Ordering Abbreviation | Recessed Housing | Replaced Incandescent Wattage | Nominal Wattage (W) | Delivered Light Output (lm) | Color Temperature | CRI | Average Rated Life (hrs.)* |
|-------------|-----------------------|------------------|-------------------------------|---------------------|-----------------------------|-------------------|-----|----------------------------|
| 74285       | LED/RT4/600/927/FL80  | 4in.             | 50W                           | 9                   | 600                         | 2700K             | 90  | 50,000                     |
| 74286       | LED/RT4/600/930/FL80  | 4in.             | 50W                           | 9                   | 600                         | 3000K             | 90  | 50,000                     |
| 73835       | LED/RT4/600/840/FL80  | 4in.             | 50W                           | 9                   | 600                         | 4000K             | 82  | 50,000                     |
| 74288       | LED/RT4/600/940/FL80  | 4in.             | 50W                           | 9                   | 600                         | 4000K             | 90  | 50,000                     |
| 74289       | LED/RT4/600/950/FL80  | 4in.             | 50W                           | 9                   | 600                         | 5000K             | 90  | 50,000                     |
| 70387       | LED/RT4/G/600/827     | 4in.             | 50W                           | 9                   | 600                         | 2700K             | 82  | 50,000                     |
| 70395       | LED/RT4/G/600/830     | 4in.             | 50W                           | 9                   | 600                         | 3000K             | 82  | 50,000                     |

\* 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

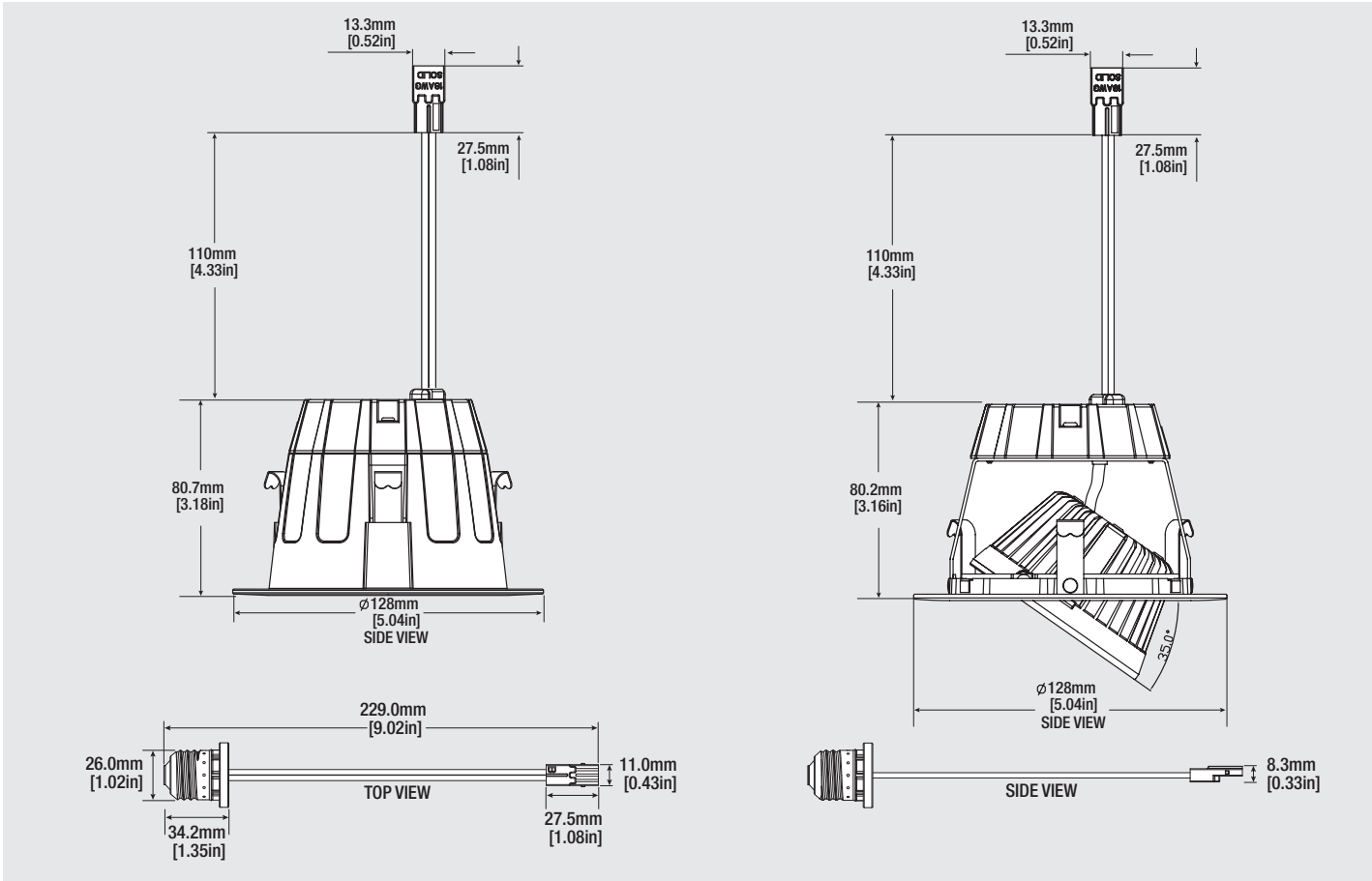
| LED | / | RT4                                      | / | G      | / | 600                   | / | 8      | 27                                                    |
|-----|---|------------------------------------------|---|--------|---|-----------------------|---|--------|-------------------------------------------------------|
| LED |   | Product Name<br>RT4<br>4=fits 4" housing |   | Gimbal |   | Light Output<br>600lm |   | CRI>80 | Color Temperature<br>2700K<br>3000K<br>4000K<br>5000K |

Energy Savings

| Basic Product Description | LED Lumens | LED Life | Similar Lamp Type         | Lumens | Life | Watts Saved With RT4 | RT4 Energy Savings* | RT4 Life Benefit |
|---------------------------|------------|----------|---------------------------|--------|------|----------------------|---------------------|------------------|
| RT4                       | 600        | 50,000   | Incandescent 50R20        | 410    | 2000 | 41                   | \$225               | 25X              |
|                           |            |          | Halogen 50PAR20/WFL       | 550    | 2500 | 41                   | \$225               | 20X              |
|                           |            |          | Compact Fluorescent 14R20 | 495    | 8000 | 5                    | \$27                | 6X               |

\* Based on \$0.11/kWh over 50,000 hours life.

Assembly Diagram



Accessories

GU24 Socket Adaptor

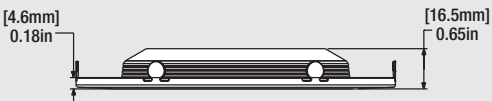
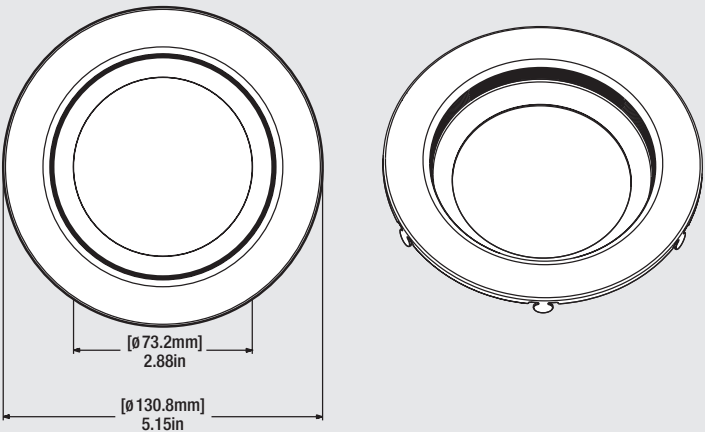
75105 LED/ADAPTOR/GU24 (sold separately)

Push Wire Adaptor

75107 LED/ADAPTOR/PUSHWIRE (sold separately)

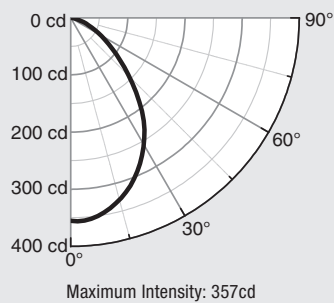
Retrofit Trim (For non-gimbal only, cannot be used with gimbal)

|       |                    |                                                      |
|-------|--------------------|------------------------------------------------------|
| 70696 | RT4/TRIM/BLK       | One Tone: Black Trim & Black Reflector               |
| 70697 | RT4/TRIM/ORBZ      | One Tone: Bronze Trim & Bronze Reflector             |
| 70698 | RT4/TRIM/SN        | One Tone: Satin Nickel Trim & Satin Nickel Reflector |
| 70713 | RT4/TRIM/BLKBAFFLE | Two Tone: White Trim & Black Baffle Reflector        |
| 70714 | RT4/TRIM/WHTBAFFLE | Two Tone: White Trim & White Baffle Reflector        |
| 70716 | RT4/TRIM/ALZAK     | Two Tone: White Trim & Alzak Reflector               |



## Photometric Information

Polar Chart



Zonal Lumen Distribution

| Zone   | Lumens | % Fixture |
|--------|--------|-----------|
| 0-30   | 248.6  | 41.2      |
| 0-40   | 376.0  | 62.3      |
| 0-60   | 545.5  | 90.5      |
| 60-90  | 57.6   | 9.5       |
| 0-90   | 603.1  | 100.0     |
| 90-180 | 0.0    | 0.0       |
| 0-180  | 603.1  | 100.00    |

Illuminance at Distance

|       | Illuminance |         | Beam Diameter |         |
|-------|-------------|---------|---------------|---------|
|       | Edge        | Center  | V             | H       |
| 2 ft  | 21.5 fc     | 89.3 fc | 3.2 ft        | 3.2 ft  |
| 4 ft  | 5.4 fc      | 22.3 fc | 6.3 ft        | 6.5 ft  |
| 6 ft  | 2.4 fc      | 9.9 fc  | 9.5 ft        | 9.7 ft  |
| 8 ft  | 1.3 fc      | 5.6 fc  | 12.7 ft       | 12.9 ft |
| 10 ft | 0.9 fc      | 3.6 fc  | 15.8 ft       | 16.2 ft |
| 12 ft | 0.6 fc      | 2.5 fc  | 19.0 ft       | 19.4 ft |

Vert. Spread: 76.7° Horiz. Spread: 77.9°

Spacing to Mounting Height Ratio

|                             |      |
|-----------------------------|------|
| Spacing Criteria (0-180°)   | 1.00 |
| Spacing Criteria (90-270°)  | 1.06 |
| Spacing Criteria (Diagonal) | 1.12 |

## Application Information

### Application Notes

1. Operating temperature range between -40°F and 104°F (-40°C and 40°C).
2. Suitable for indoor and outdoor dry, damp and wet locations.
3. Suitable for dimmers or in housings controlled by a dimmer. For a list of compatible dimmers, please refer to [www.sylvania.com/dimming-compatibility-list](http://www.sylvania.com/dimming-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 4" insulated and non-insulated housings. For a list of compatible housings, please refer to [www.sylvania.com/RT4](http://www.sylvania.com/RT4).
7. For detailed warranty information, please refer to [www.sylvania.com](http://www.sylvania.com).
8. Compatible with Philips Bodine model ELI-S-20 and IOTA model IIS-125 Emergency Lighting Inverters.

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