

# 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
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

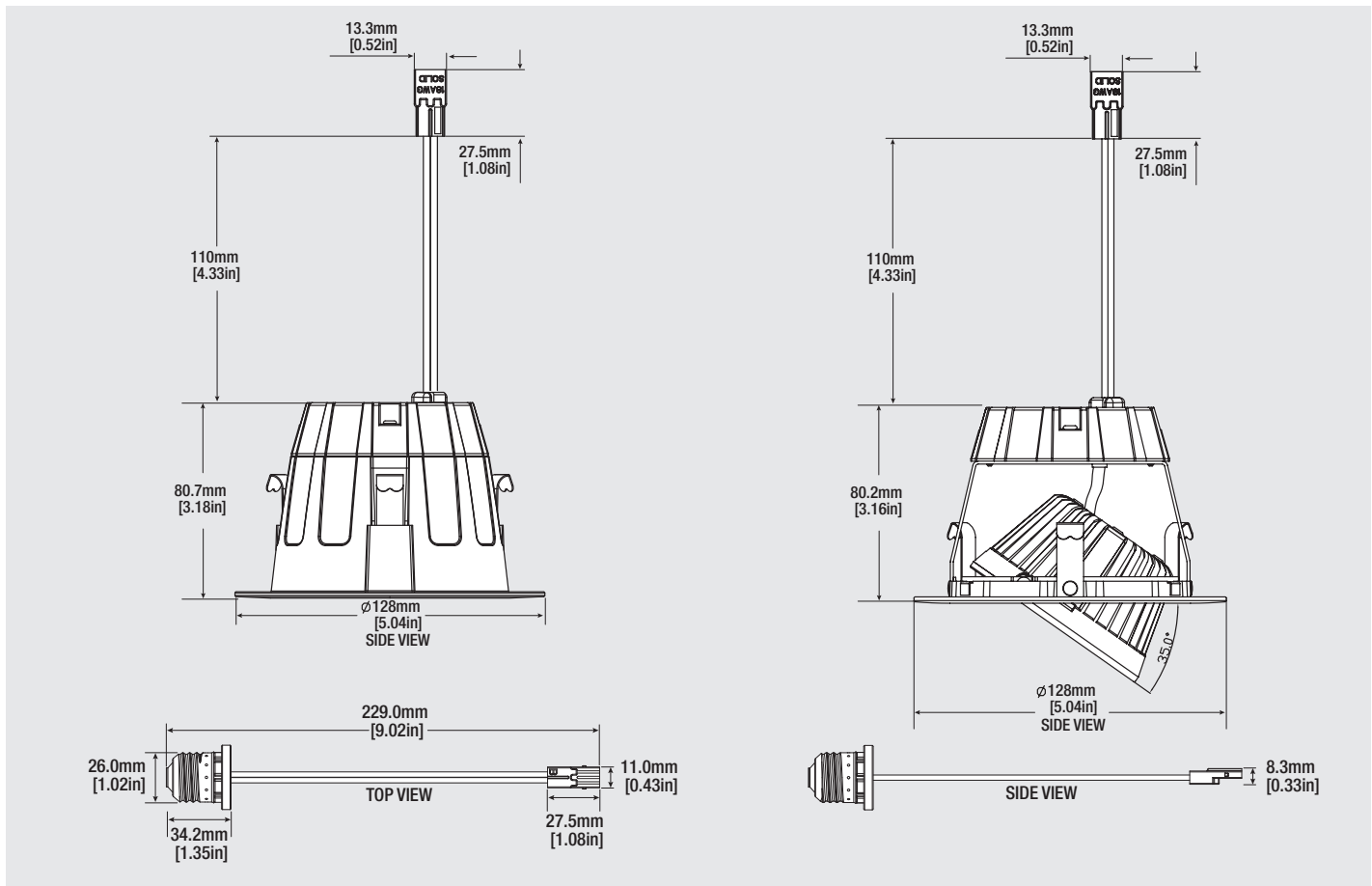
LED	/	RT4	/	G	/	600	/	8	27
LED		Product Name RT4 4=fits 4" housing		Gimbal		Light Output 600lm		CRI>80	Color Temperature 2700K 3000K 4000K 5000K

Energy Savings

Basic Product Description	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

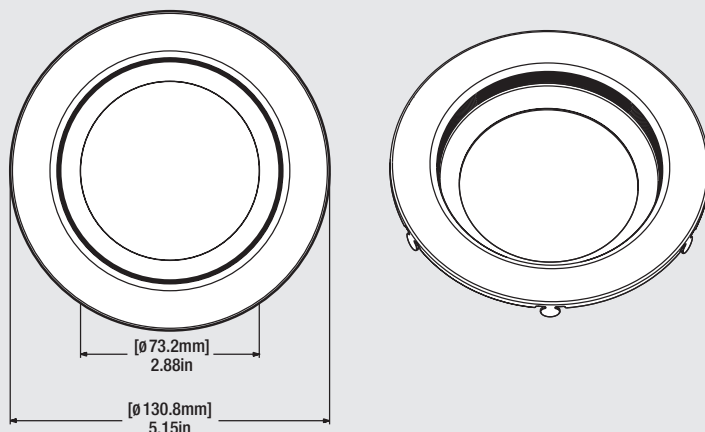
75105 LED/ADAPTOR/GU24 (sold separately)

### Push Wire Adaptor

75107 LED/ADAPTOR/PUSHWIRE (sold separately)

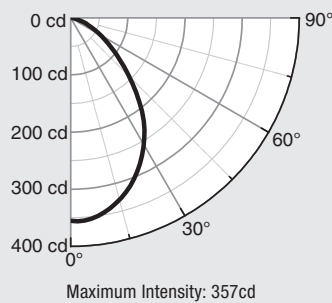
### Retrofit Trim (For non-gimbal only, cannot be used with gimbal)

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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