

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 85
- Dimmable down to 10%
- 50,000 hour life (L₇₀)
- 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 85 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 85

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 85
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.)*
70459	LED/RT4/600/827/FL80	4in.	50W	9	600	2700K	82	50,000
70643	LED/RT4/600/830/FL80	4in.	50W	9	600	3000K	85	50,000
73835	LED/RT4/600/840	4in.	50W	9	600	4000K	82	50,000
73836	LED/RT4/600/850	4in.	50W	9	600	5000K	82	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

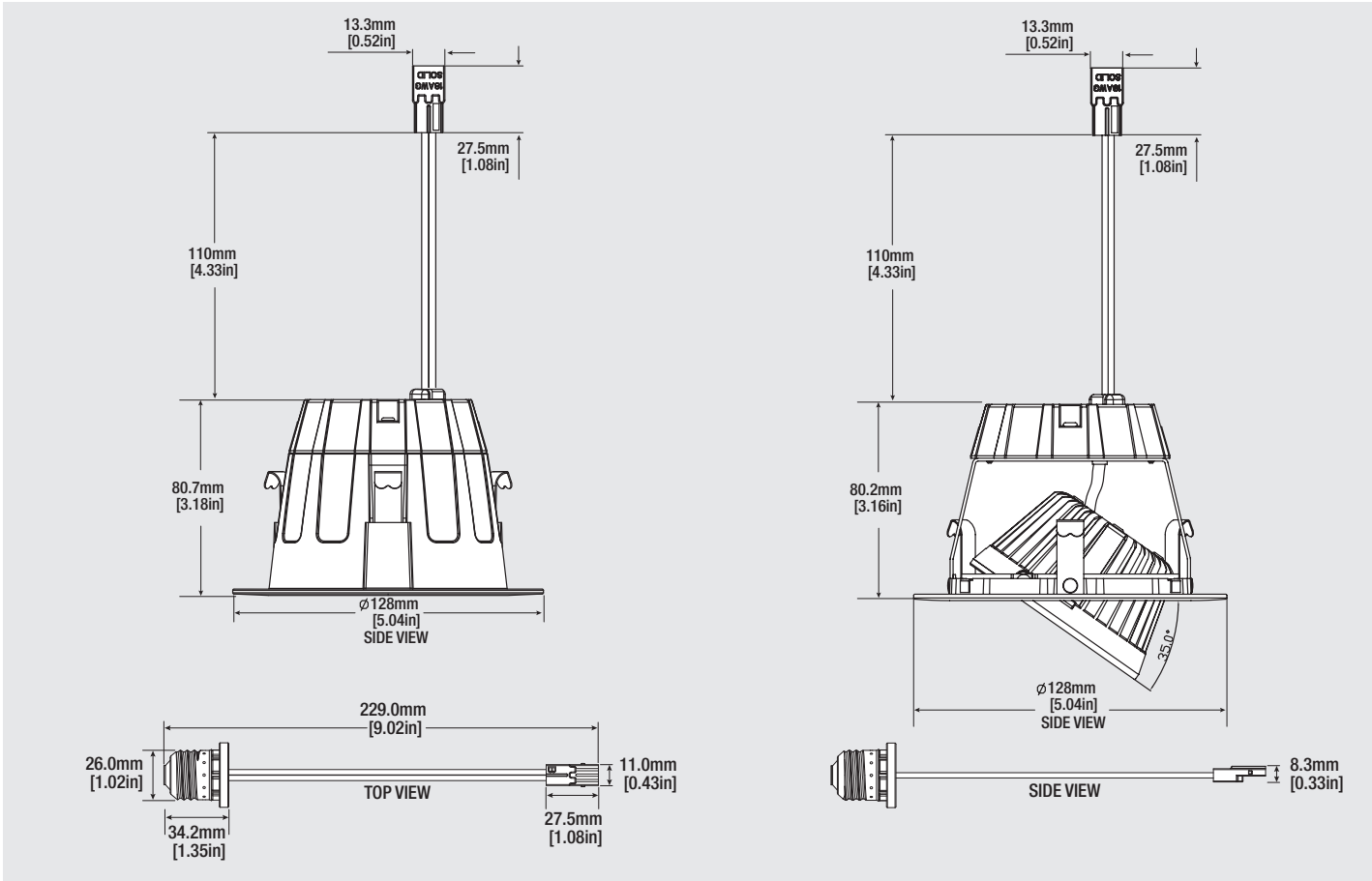
LED	/	RT4	/	G	/	600	/	8	27
LED		Product Name RT4 4=fits 4" housing		Gimbal		Light Output 600lm		CRI>80	Color Temperature 2700K 3000K 4000K 5000K

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

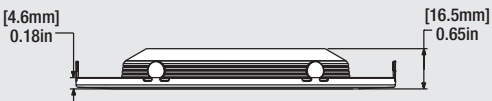
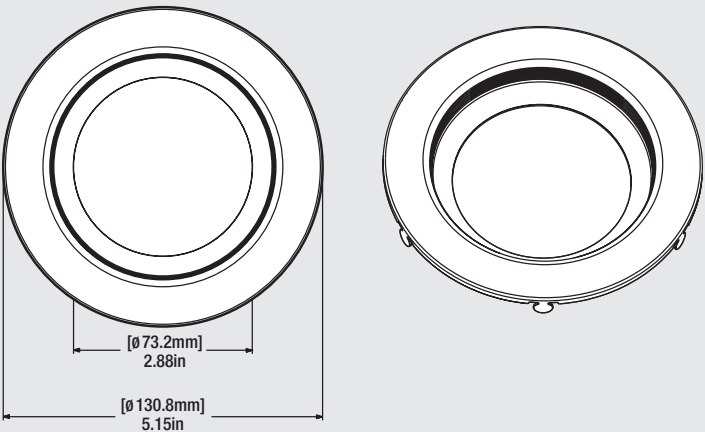
75105 LED/ADAPTOR/GU24 (sold separately)

Push Wire Adaptor

75107 LED/ADAPTOR/PUSHWIRE (sold separately)

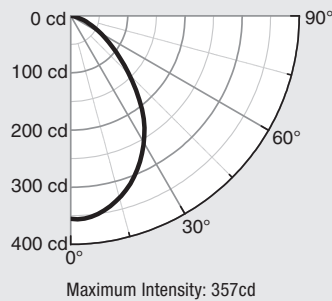
Retrofit Trim (For non-gimbal only, cannot be used with gimbal)

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/RT4.
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.
7. For detailed warranty information, please refer to www.sylvania.com/RT4.
8. Compatible with Philips Bodine model ELI-S-20 and IOTA model IIS-125 Emergency Lighting Inverters.

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