

ULTRA RT6 and RT6 Gimbal 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. 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 (360°).

Dimming

The SYLVANIA ULTRA RT Series downlight kit 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).

Key Features & Benefits

- Lumen package:
 - 625 lumens @ 11 watts
 - 700 lumens @ 11 watts
 - 900 lumens @ 14 watts
- Replacement for up to 100W incandescent lamps
- Fits into most 6" recessed downlight fixtures
- CCT: 2700K/3000K/4000K
- CRI: up to 86
- Dimmable down to 20%*
- 50,000 hour life (L₇₀)
- Suitable for indoor dry and damp locations
- Reduces energy consumption up to 86%
- 120V input voltage
- Lasts up to 25 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
- Adjustable Gimbal feature (35° tilt)

* Performance may vary depending on dimmer use in application. Please refer to Dimmer Compatibility List (RETRO-DIM) for a list of compatible dimmers or visit www.sylvania.com/LEDretrofit

Quality of Light

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

Product Offering

Lumen Output	Wattage	Color Temperature	CRI
625	11	2700K, 3000K	82
700	11	4000K	86
900	14	2700K, 3000K	82
900 (Gimbal)	14	2700K, 3000K	84

Application Information

Applications

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

Specifications and Certifications



This light source meets restrictions on hazardous substances.



Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Specifications

Energy Data

Minimum Starting Temp: 0°C (32°F)

EMI/RFI: FCC Title 47 CFR, Part 15, Class A (Commercial)

Sound Rating: <24dBA

Input Voltage: 120V

Power Factor: >0.90

Input Frequency: 60Hz

THD: <20%

Input Power: 11W & 14W

Input Current: 0.1A

Maximum Ambient Operating Temperature for Gimbal (Insulated Ceiling or Non-Insulated Ceiling): 35°C (95°F)

Maximum Ambient Operating Temperature for non-Gimbal (Insulated Ceiling or Non-Insulated Ceiling): 40°C (104°F)

Lighting Data

Lumen Output: 625, 700 & 900

Lumens per Watt: 61 for 625lm
64 for 700lm & 900lm

Color

Correlated Color Temperature (CCT):
2700K, 3000K & 4000K

Color Rendering Index (CRI): Up to 86

R9: 15

Ordering Information

Item Number	Ordering Abbreviation	Recessed Housing	Replaced Incandescent Wattage	Nominal Wattage (W)	Delivered Light Output (lm)	Color Temperature	CRI	Avg. Rated Life (hrs)*
70654	LED/625/RT6/827/FL80/WRFL/WTR/BOX	6 in.	65W	11	625	2700K	82	50,000
70653	LED/625/RT6/830/FL80/WRFL/WTR/BOX	6 in.	65W	11	625	3000K	82	50,000
71208	LED/700/RT6/840/FL80/WRFL/WTR/BOX	6 in.	65W	11	700	4000K	86	50,000
70656	LED/900/RT6/827/FL80/WRFL/WTR/BOX	6 in.	100W	14	900	2700K	82	50,000
70647	LED/900/RT6/830/FL80/WRFL/WTR/BOX	6 in.	100W	14	900	3000K	82	50,000
70706	LED/900/RT6/G/827/FL80/WRFL/WTR/BOX	6 in.	100W	14	900	2700K	84	50,000
70705	LED/900/RT6/G/830/FL80/WRFL/WTR/BOX	6 in.	100W	14	900	3000K	84	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	/	625	/	RT6	/	G	/	8	30	/	FL	80	/	WRFL	/	WTR	/	BOX
LED		Light Output 625 lm		Product Name RT6 6=fits 6" housing		Gimbal		CRI >80	Color Temperature 3000K		Flood	Beam Angle 80°		White Reflector		White Trim		Packaging

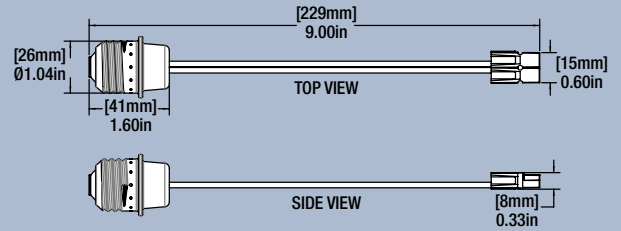
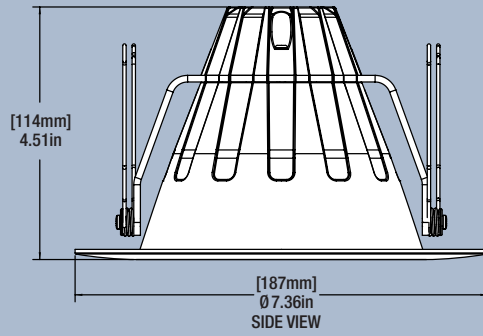
Energy Savings

Basic Product Description	LED		Traditional Lamp Types	Lumens	Life	Watts Saved With RT6	RT6 Energy Savings*	RT6 Life Benefit
	Lumens	Life						
RT6 11W	625	50,000	Incandescent 65BR30	640	2000	54	\$297	25X
			Halogen 50WBR30/SS/HAL	585	2500	39	\$215	20X
	700	50,000	Halogen 50WPAR30LN/WFL	660	2500	39	\$215	20X
			Compact Fluorescent 15WBR30	600	8000	4	\$22	6X
RT6 14W	900	50,000	Incandescent 100BR40	935	2000	86	\$473	25X
			Halogen 80WBR40/SS/HAL	1080	2000	66	\$363	25X
	900	50,000	Halogen 75WPAR38/WFL	1060	2500	61	\$335	20X
			Compact Fluorescent 20WBR40	900	8000	6	\$33	6X

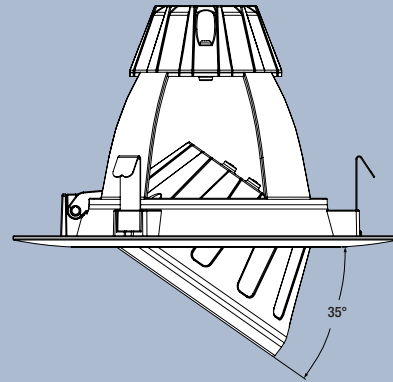
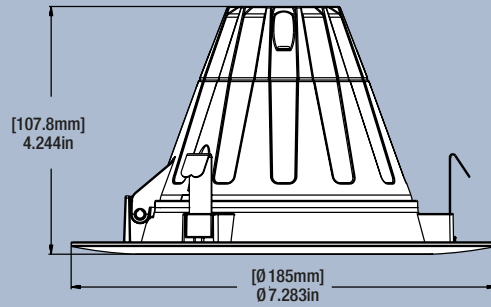
* Based on \$0.11/kWh over 50,000 hours life.

Assembly Diagram

RT6



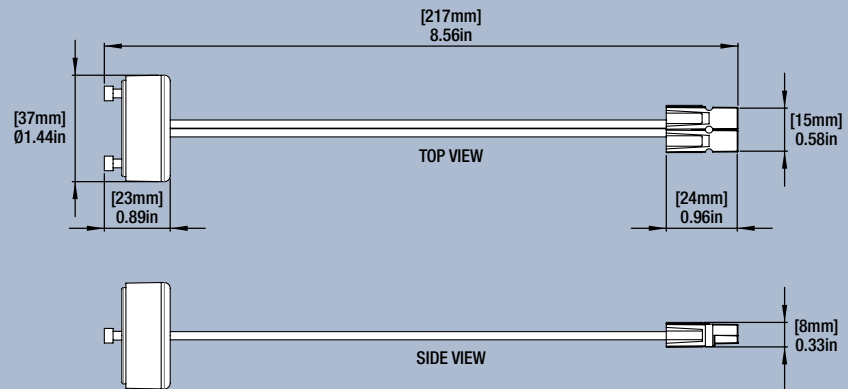
RT6 Gimbal



Accessories

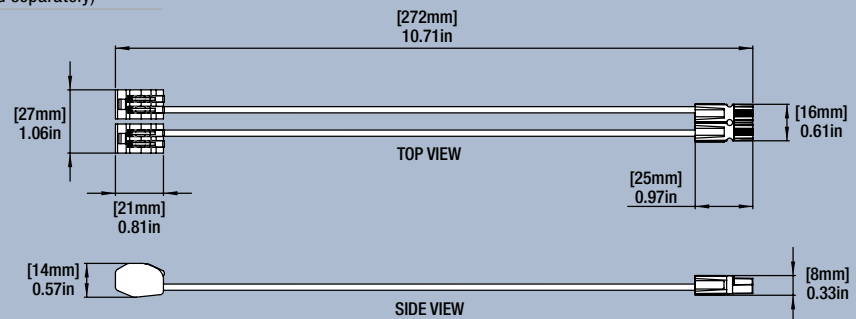
GU24 Socket Adaptor (For all RT6 models except 71208)

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



Push Wire Adaptor (For all RT6 models except 71208)

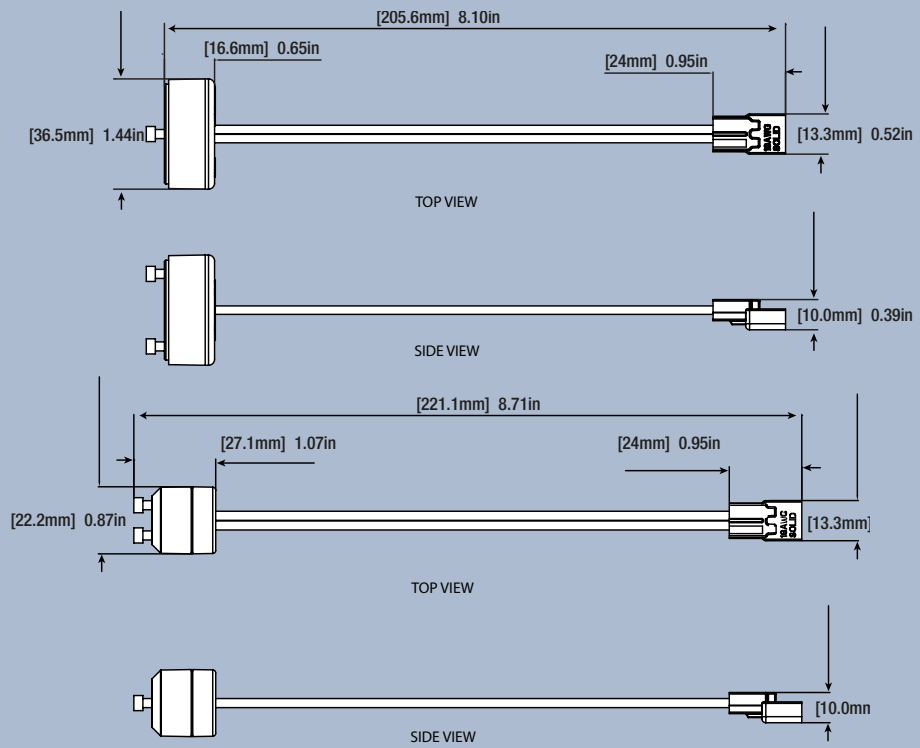
70657 LED/CRT6/RETROFIT/ADAPTOR (sold separately)



Accessories

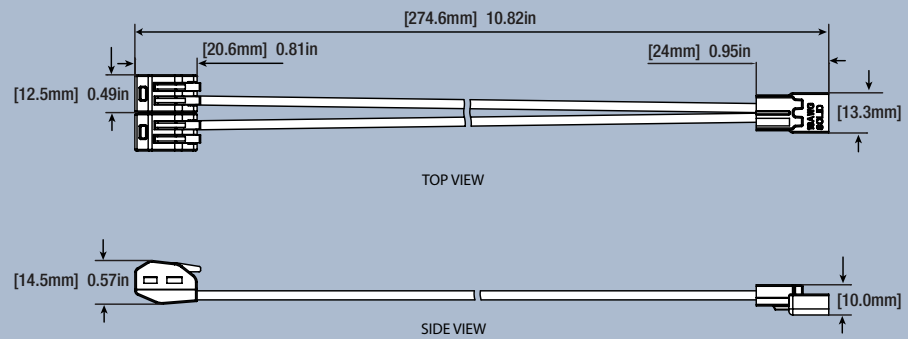
GU24 Socket Adaptor (For 71208)

70447 LED/RT/GU24/SOCKET/ADAPTOR (sold separately)



Push Wire Adaptor (For 71208)

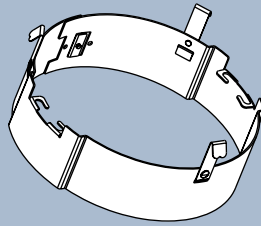
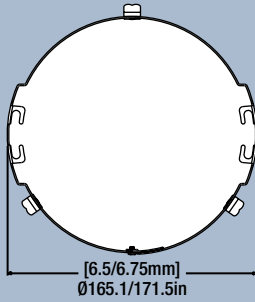
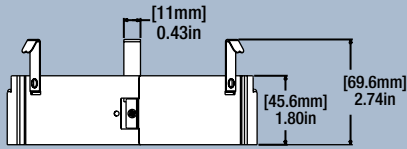
70458 LED/RT/RETROFIT/ADAPTOR (sold separately)



Accessories

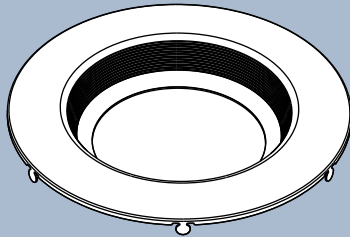
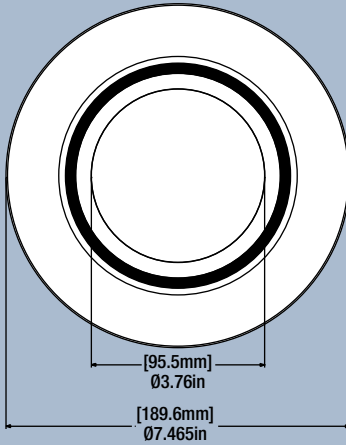
Retrofit Band (For 6" housing models Progress Lighting P87-AT and Lightolier 1104IC)

70663 RT6/RETROFITBAND (sold separately)



Retrofit Trim (For non-Gimbal only, can not be used with Gimbal)

70708	RT6/TRIM/BLK	One Tone: Black Trim & Black Reflector
70709	RT6/TRIM/ORBZ	One Tone: Bronze Trim & Bronze Reflector
70710	RT6/TRIM/SN	One Tone: Satin Nickel Trim & Satin Nickel Reflector
70711	RT6/TRIM/BLKBAFFLE	Two Tone: White Trim & Black Baffle Reflector
70712	RT6/TRIM/WHTBAFFLE	Two Tone: White Trim & White Baffle Reflector
70715	RT6/TRIM/ALZAK	Two Tone: White Trim & Alzak Reflector



70708



70711



70709



70712

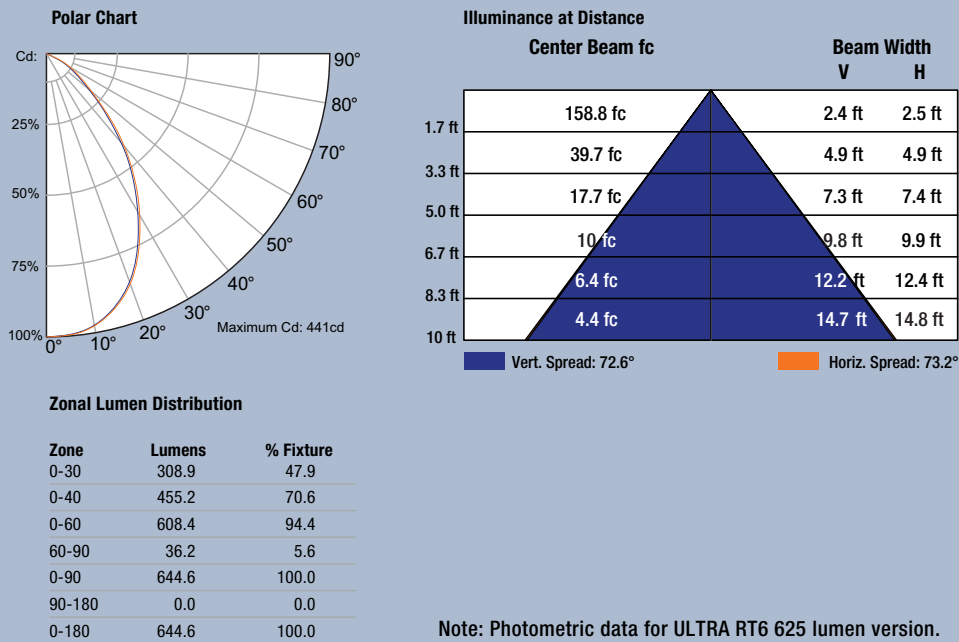


70710



70715

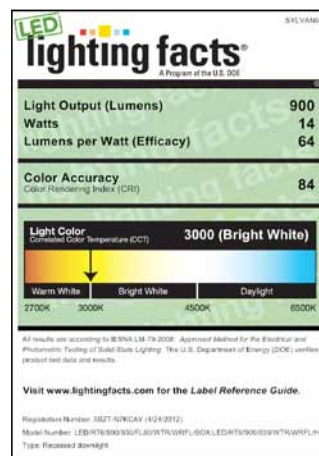
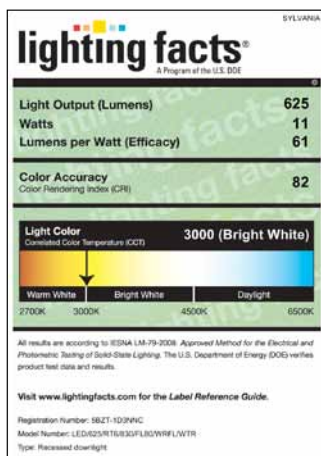
Photometric Information



Application Information

Application Notes

- For Gimbal, operating temperature range between -32°F and +95°F (0°C and +35°C).
For non-Gimbal, operating temperature range between -32°F and +104°F (0°C and +40°C).
- Suitable for use in indoor dry and damp location environments.
- Suitable for dimmers or in housings controlled by a dimmer – see www.sylvania.com/RT6 for detailed dimmer compatibility list.
- Not intended for use with emergency light fixtures or exit lights.
- For use in housings that can structurally support a lamp weighing one pound.
- Designed to install in standard 6" insulated and non-insulated housings. For a list of compatible housings, please refer to www.sylvania.com/RT6.
- For detailed warranty information, please see www.sylvania.com/RT6.



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