

# SYLVANIA Luminaires

## Hi-PerformanceLED™ Recessed Downlight Kit

### Application

The SYLVANIA Hi-PerformanceLED Recessed Downlight is available in 3", 4", 6" and 8" models that create high performing light and are optimized for new construction and retrofit applications that previously utilized pin-based compact fluorescent lamps. Installation is done quickly and easily in most standard frames. The lumen selectable switch allows for customizable light replacing up to 100W compact fluorescent lamp and offering up to 60% energy savings when compared to traditional technologies.

### Benefits and Features

- Low Glare: UGR <19
- High CRI (>90) ensures a high quality light
- Quick disconnect allows for installation in new construction installation
- Specular reflectors with carefully placed luminous elements offer excellent cutoff for comfortable lighting with high visual impact
- Junction box included to save money and time on job site
- ENERGY STAR® rated to maximize rebate opportunities
- Up to 98 LPW
- 2700K, 3000K, 3500K, 4000K and 5000K color temperatures available
- Energy savings up to 60%
- Flicker free (<2% for 0-10V, <10% for phase-cut)
- 10-100% dimming

### Electrical

- 120-277V<sub>AC</sub> for 0-10V dimmable versions, 120V<sub>AC</sub> for phase-cut dimmable versions
- Power Factor >90%
- THD <20%
- Phase-cut dimming and 0-10V dimming models are both available (see ordering guide for details)

### Rated Life

- ≥60,000 hours (L<sub>70</sub>) @25°C

### Warranty

- 5-year
- NLB Trusted Warranty Program

### Ambient Operating Range

- -4°F to +104°F (-20°C to +40°C)



### Wattage Comparison

| Traditional Source  | LED System Wattage | Energy Savings |
|---------------------|--------------------|----------------|
| 5, 7, or 9W CFL     | 4, 5 or 6W         | 33%            |
| 13, 16 or 18W CFL   | 7, 9 or 10.5W      | 42%            |
| 13, 18 or 23W CFL   | 8, 10 or 12W       | 48%            |
| 18, 23 or 32W CFL   | 12, 14 or 16W      | 50%            |
| 18, 32 or 2x26W CFL | 11, 16 or 21W      | 60%            |
| 2x42 or 100W CFL    | 31, 41 or 51W      | 49%            |

### Certifications and Listings

- cETLus
- RoHS
- FCC
- ENERGY STAR
- Classified for stand-alone and retrofit applications as per UL 1598/1598C
- IC rated for direct contact with insulation, allowing for installation without a housing (does not apply for 5000lm)\*
- Certified airtight as per ASTM E283-04
- Suitable for dry, damp, and wet locations
- Plenum rated as per UL2043

### Installation

- Installation performed as a stand-alone kit is recommended for hard ceilings. Installation of a recessed incandescent frame is recommended for tiled ceiling application.

\*3000 lumen and above models are not IC rated.



LEDLUM069R5 2-25



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

## Ordering Guide

| LEDRT        | X                                                                                | / R       | 4A                 | S                    | XXXX                                                                                                                                                                                                       | X                        | D                                  | / 9     | XX                                                                 | S            |
|--------------|----------------------------------------------------------------------------------|-----------|--------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------|---------|--------------------------------------------------------------------|--------------|
| Product Name | Size                                                                             | Shape     | Generation         | Selectability        | Lumen Output                                                                                                                                                                                               | Voltage                  | Dimming                            | CRI     | Color Temp                                                         | Reflector    |
| LED RT = LED | 3 = 3"                                                                           | R = Round | 4A = Generation 4A | S = Lumen selectable | 500 = 350, 450 or 500 lumens<br>900 = 600, 750 or 900 lumens<br>1100 = 700, 900 or 1100 lumens<br>1500 = 1100, 1300 or 1500 lumens<br>2000 = 1000, 1500 or 2000 lumens<br>5000 = 3000, 4000 or 5000 lumens | U = 120-277V<br>S = 120V | D = 0-10V<br>T = phase-cut dimming | 9 = >90 | 27 = 2700K<br>30 = 3000K<br>35 = 3500K<br>40 = 4000K<br>50 = 5000K | S = Specular |
| Downlight    | 4 = 4"<br>compatible can<br>6 = 6"<br>compatible can<br>8 = 8"<br>compatible can |           |                    |                      |                                                                                                                                                                                                            |                          |                                    |         |                                                                    |              |

## Ordering Information

| Item Number | Ordering Abbreviation  | Power (W)    | Input Voltage (V) | Dimming   | CRI | Color Temp | Total Fixture Lumens | ENERGY STAR® | LPW | IC Rated | Options    | MTO* |
|-------------|------------------------|--------------|-------------------|-----------|-----|------------|----------------------|--------------|-----|----------|------------|------|
| 61537       | LEDRT3/R4AS500U/D/927S | 4, 5 or 6    | 120-277           | 0-10V     | 90  | 2700K      | 350, 450 or 500      | Yes          | 83  | Yes      | —          | —    |
| 61538       | LEDRT3/R4AS500UD/930S  | 4, 5 or 6    | 120-277           | 0-10V     | 90  | 3000K      | 350, 450 or 500      | Yes          | 83  | Yes      | —          | —    |
| 61539       | LEDRT3/R4AS500UD/935S  | 4, 5 or 6    | 120-277           | 0-10V     | 90  | 3500K      | 350, 450 or 500      | Yes          | 83  | Yes      | —          | —    |
| 61540       | LEDRT3/R4AS500UD/940S  | 4, 5 or 6    | 120-277           | 0-10V     | 90  | 4000K      | 350, 450 or 500      | Yes          | 83  | Yes      | —          | —    |
| 61541       | LEDRT3/R4AS500UD/950S  | 4, 5 or 6    | 120-277           | 0-10V     | 90  | 5000K      | 350, 450 or 500      | Yes          | 83  | Yes      | —          | —    |
| 61542       | LEDRT4/R4AS900UD/927S  | 7, 9 or 10.5 | 120-277           | 0-10V     | 90  | 2700K      | 600, 750 or 900      | Yes          | 86  | Yes      | —          | —    |
| 61543       | LEDRT4/R4AS900UD/930S  | 7, 9 or 10.5 | 120-277           | 0-10V     | 90  | 3000K      | 600, 750 or 900      | Yes          | 86  | Yes      | —          | —    |
| 61544       | LEDRT4/R4AS900UD/935S  | 7, 9 or 10.5 | 120-277           | 0-10V     | 90  | 3500K      | 600, 750 or 900      | Yes          | 86  | Yes      | —          | —    |
| 61545       | LEDRT4/R4AS900UD/940S  | 7, 9 or 10.5 | 120-277           | 0-10V     | 90  | 4000K      | 600, 750 or 900      | Yes          | 86  | Yes      | —          | —    |
| 61546       | LEDRT4/R4AS900UD/950S  | 7, 9 or 10.5 | 120-277           | 0-10V     | 90  | 5000K      | 600, 750 or 900      | Yes          | 86  | Yes      | —          | MTO  |
| 61547       | LEDRT6/R4AS1100UD/927S | 8, 10 or 12  | 120-277           | 0-10V     | 90  | 2700K      | 700, 900 or 1100     | Yes          | 92  | Yes      | EMBB Ready | —    |
| 61548       | LEDRT6/R4AS1100UD/930S | 8, 10 or 12  | 120-277           | 0-10V     | 90  | 3000K      | 700, 900 or 1100     | Yes          | 92  | Yes      | EMBB Ready | —    |
| 61549       | LEDRT6/R4AS1100UD/935S | 8, 10 or 12  | 120-277           | 0-10V     | 90  | 3500K      | 700, 900 or 1100     | Yes          | 92  | Yes      | EMBB Ready | —    |
| 61550       | LEDRT6/R4AS1100UD/940S | 8, 10 or 12  | 120-277           | 0-10V     | 90  | 4000K      | 700, 900 or 1100     | Yes          | 92  | Yes      | EMBB Ready | —    |
| 61551       | LEDRT6/R4AS1100UD/950S | 8, 10 or 12  | 120-277           | 0-10V     | 90  | 5000K      | 700, 900 or 1100     | Yes          | 92  | Yes      | EMBB Ready | MTO  |
| 61552       | LEDRT6/R4AS1500UD/930S | 12, 14 or 16 | 120-277           | 0-10V     | 90  | 3000K      | 1100, 1300 or 1500   | Yes          | 94  | Yes      | EMBB Ready | —    |
| 61553       | LEDRT6/R4AS1500UD/935S | 12, 14 or 16 | 120-277           | 0-10V     | 90  | 3500K      | 1100, 1300 or 1500   | Yes          | 94  | Yes      | EMBB Ready | —    |
| 61554       | LEDRT6/R4AS1500UD/940S | 12, 14 or 16 | 120-277           | 0-10V     | 90  | 4000K      | 1100, 1300 or 1500   | Yes          | 94  | Yes      | EMBB Ready | —    |
| 61555       | LEDRT6/R4AS1500UD/950S | 12, 14 or 16 | 120-277           | 0-10V     | 90  | 5000K      | 1100, 1300 or 1500   | Yes          | 94  | Yes      | EMBB Ready | MTO  |
| 61556       | LEDRT8/R4AS2000UD/930S | 11, 16 or 21 | 120-277           | 0-10V     | 90  | 3000K      | 1000, 1500 or 2000   | Yes          | 95  | Yes      | EMBB Ready | —    |
| 61557       | LEDRT8/R4AS2000UD/935S | 11, 16 or 21 | 120-277           | 0-10V     | 90  | 3500K      | 1000, 1500 or 2000   | Yes          | 95  | Yes      | EMBB Ready | —    |
| 61558       | LEDRT8/R4AS2000UD/940S | 11, 16 or 21 | 120-277           | 0-10V     | 90  | 4000K      | 1000, 1500 or 2000   | Yes          | 95  | Yes      | EMBB Ready | —    |
| 61559       | LEDRT8/R4AS2000UD/950S | 11, 16 or 21 | 120-277           | 0-10V     | 90  | 5000K      | 1000, 1500 or 2000   | Yes          | 95  | Yes      | EMBB Ready | MTO  |
| 61560       | LEDRT8/R4AS5000UD/930S | 31, 41 or 51 | 120-277           | 0-10V     | 90  | 3000K      | 3000, 4000 or 5000   | Yes          | 98  | No       | EMBB Ready | —    |
| 61561       | LEDRT8/R4AS5000UD/935S | 31, 41 or 51 | 120-277           | 0-10V     | 90  | 3500K      | 3000, 4000 or 5000   | Yes          | 98  | No       | EMBB Ready | —    |
| 61562       | LEDRT8/R4AS5000UD/940S | 31, 41 or 51 | 120-277           | 0-10V     | 90  | 4000K      | 3000, 4000 or 5000   | Yes          | 98  | No       | EMBB Ready | —    |
| 61563       | LEDRT8/R4AS5000UD/950S | 31, 41 or 51 | 120-277           | 0-10V     | 90  | 5000K      | 3000, 4000 or 5000   | Yes          | 98  | No       | EMBB Ready | MTO  |
| 61564       | LEDRT3/R4AS500ST/927S  | 4, 5 or 6    | 120               | Phase-Cut | 90  | 2700K      | 350, 450 or 500      | Yes          | 83  | Yes      | —          | MTO  |
| 61565       | LEDRT3/R4AS500ST/930S  | 4, 5 or 6    | 120               | Phase-Cut | 90  | 3000K      | 350, 450 or 500      | Yes          | 83  | Yes      | —          | MTO  |
| 61566       | LEDRT3/R4AS500ST/935S  | 4, 5 or 6    | 120               | Phase-Cut | 90  | 3500K      | 350, 450 or 500      | Yes          | 83  | Yes      | —          | MTO  |
| 61567       | LEDRT3/R4AS500ST/940S  | 4, 5 or 6    | 120               | Phase-Cut | 90  | 4000K      | 350, 450 or 500      | Yes          | 83  | Yes      | —          | MTO  |
| 61568       | LEDRT3/R4AS500ST/950S  | 4, 5 or 6    | 120               | Phase-Cut | 90  | 5000K      | 350, 450 or 500      | Yes          | 83  | Yes      | —          | MTO  |
| 61569       | LEDRT4/R4AS900ST/927S  | 7, 9 or 10.5 | 120               | Phase-Cut | 90  | 2700K      | 600, 750 or 900      | Yes          | 86  | Yes      | —          | MTO  |
| 61570       | LEDRT4/R4AS900ST/930S  | 7, 9 or 10.5 | 120               | Phase-Cut | 90  | 3000K      | 600, 750 or 900      | Yes          | 86  | Yes      | —          | MTO  |
| 61571       | LEDRT4/R4AS900ST/935S  | 7, 9 or 10.5 | 120               | Phase-Cut | 90  | 3500K      | 600, 750 or 900      | Yes          | 86  | Yes      | —          | MTO  |
| 61572       | LEDRT4/R4AS900ST/940S  | 7, 9 or 10.5 | 120               | Phase-Cut | 90  | 4000K      | 600, 750 or 900      | Yes          | 86  | Yes      | —          | MTO  |
| 61573       | LEDRT4/R4AS900ST/950S  | 7, 9 or 10.5 | 120               | Phase-Cut | 90  | 5000K      | 600, 750 or 900      | Yes          | 86  | Yes      | —          | MTO  |
| 61574       | LEDRT6/R4AS1100ST/927S | 8, 10 or 12  | 120               | Phase-Cut | 90  | 2700K      | 700, 900 or 1100     | Yes          | 92  | Yes      | EMBB Ready | MTO  |
| 61575       | LEDRT6/R4AS1100ST/930S | 8, 10 or 12  | 120               | Phase-Cut | 90  | 3000K      | 700, 900 or 1100     | Yes          | 92  | Yes      | EMBB Ready | MTO  |
| 61576       | LEDRT6/R4AS1100ST/935S | 8, 10 or 12  | 120               | Phase-Cut | 90  | 3500K      | 700, 900 or 1100     | Yes          | 92  | Yes      | EMBB Ready | MTO  |
| 61577       | LEDRT6/R4AS1100ST/940S | 8, 10 or 12  | 120               | Phase-Cut | 90  | 4000K      | 700, 900 or 1100     | Yes          | 92  | Yes      | EMBB Ready | MTO  |
| 61578       | LEDRT6/R4AS1100ST/950S | 8, 10 or 12  | 120               | Phase-Cut | 90  | 5000K      | 700, 900 or 1100     | Yes          | 92  | Yes      | EMBB Ready | MTO  |

\*Indicates Made To Order with a minimum order quantity of 200 each.

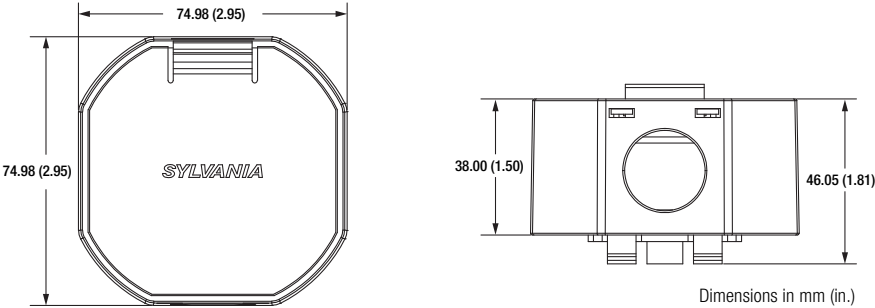
Emergency Battery Back-Up Accessories

Emergency Battery Back-Up Specs

| NAED  | Description | Input Voltage          | Frequency | Input Current | Watt Hours | Max Mounting Height | Ambient Temp | Charging Time | Rating | Warranty |
|-------|-------------|------------------------|-----------|---------------|------------|---------------------|--------------|---------------|--------|----------|
| 60887 | EMBB1A5WDC  | 120-277V <sub>AC</sub> | 50/60 Hz  | 100mA Max.    | 9.6wH      | 22.63ft             | 0-50°C       | 24 hours      | Damp   | 4 years  |
| 60888 | EMBB1A8WDC  | 120-277V <sub>AC</sub> | 50/60 Hz  | 100mA Max.    | 14.4wH     | 22.26ft             | 0-50°C       | 24 hours      | Damp   | 4 years  |
| 60889 | EMBB1A16WDC | 120-277V <sub>AC</sub> | 50/60 Hz  | 100mA Max.    | 28.8wH     | 22.13ft             | 0-50°C       | 32 hours      | Damp   | 4 years  |

Junction Box

|       |                   |                                                           |
|-------|-------------------|-----------------------------------------------------------|
| 60891 | ACC/RT/EMBB-J-BOX | Junction box for RT Emergency Battery Back-up (8 per SKU) |
|-------|-------------------|-----------------------------------------------------------|

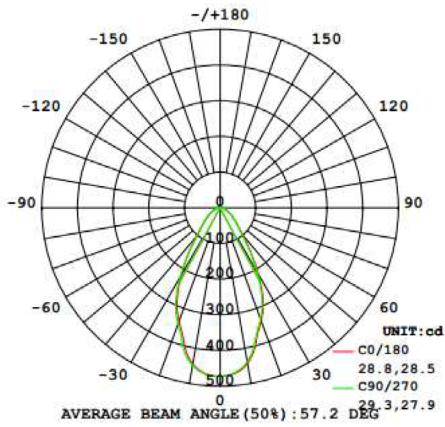


Compatibility Table

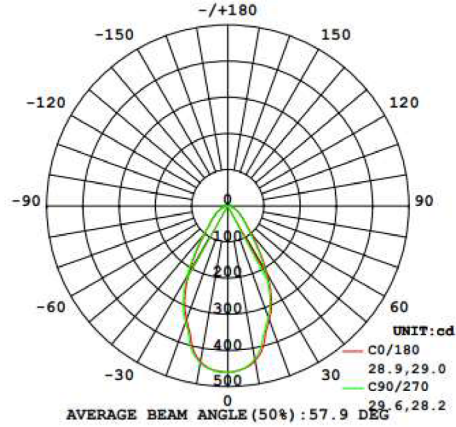
| Hi Performance RT    | NAED  | Description | Dial Switch No. 1                                                                 | Dial Switch No. 2                                                                 | EMBB Current (mA) | EM Lumens (lm) | Duration   |
|----------------------|-------|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|----------------|------------|
|                      |       |             |  |  |                   |                |            |
| RT6 700-900-1100LM   | 60888 | EMBB1A8WDC  | 2                                                                                 | 0                                                                                 | 200               | 850            | 90 minutes |
|                      |       |             | 1                                                                                 | 5                                                                                 | 150               | 650            |            |
| RT6 1100-1300-1500LM | 60888 | EMBB1A8WDC  | 2                                                                                 | 0                                                                                 | 200               | 800            |            |
|                      |       |             | 1                                                                                 | 5                                                                                 | 150               | 600            |            |
| RT8 1000-1500-2000LM | 60888 | EMBB1A8WDC  | 2                                                                                 | 0                                                                                 | 200               | 850            |            |
|                      |       |             | 1                                                                                 | 5                                                                                 | 150               | 650            |            |
| RT8 3000-4000-5000LM | 60889 | EMBB1A16WDC | 3                                                                                 | 0                                                                                 | 300               | 1200           |            |
|                      | 60888 | EMBB1A18WDC | 2                                                                                 | 0                                                                                 | 200               | 1000           |            |

## Photometric Data

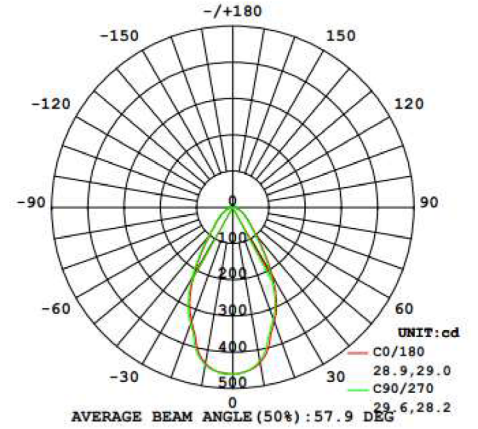
**LEDRT3R4AS500ST9xxS**



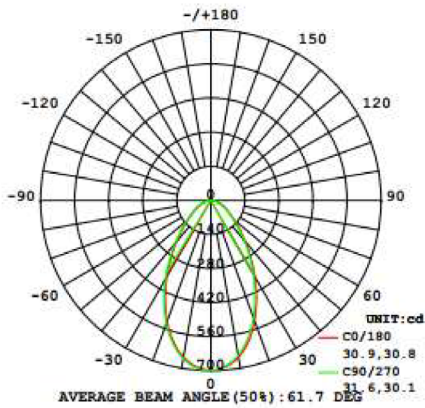
**LEDRT3R4AS500UD9xxS**



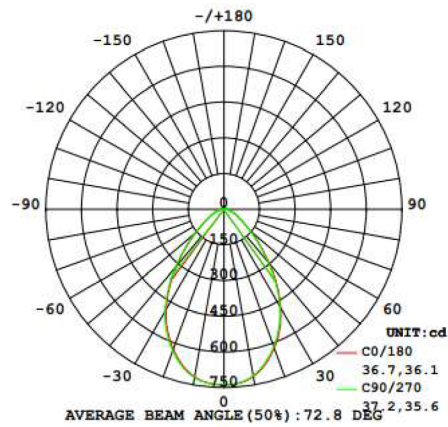
**LEDRT4R4AS900ST9xxS**



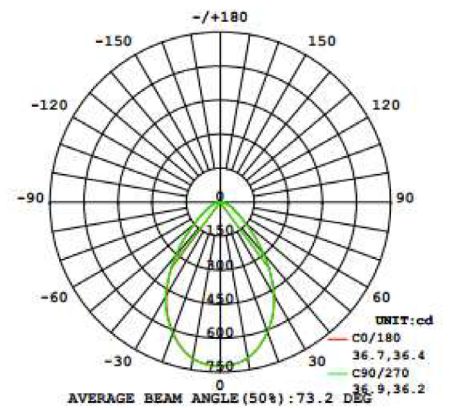
**LEDRT4R4AS900UD9xxS**



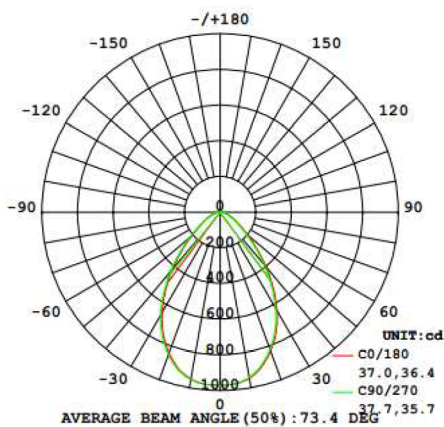
**LEDRT6R4AS1100ST9xxS**



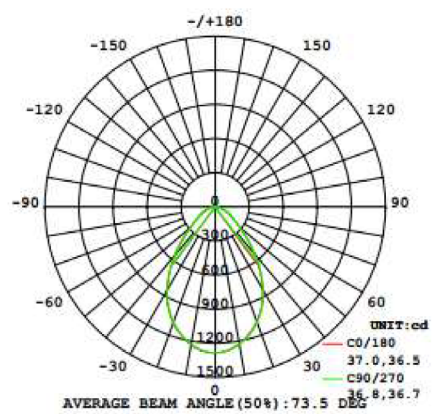
**LEDRT6R4AS1100UD9xxS**



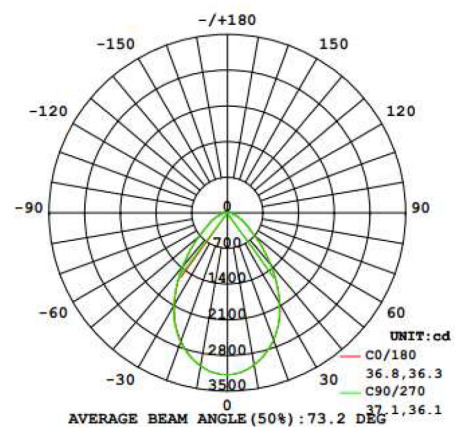
**LEDRT6R4AS1500UD9xxS**



**LEDRT8R4AS2000UD9xxS**



**LEDRT8R4AS5000UD9xxS**

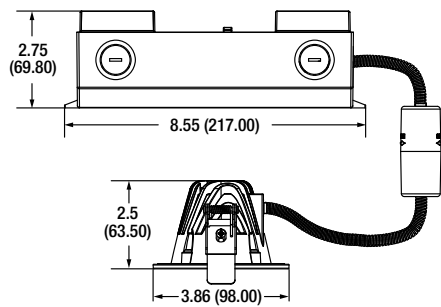




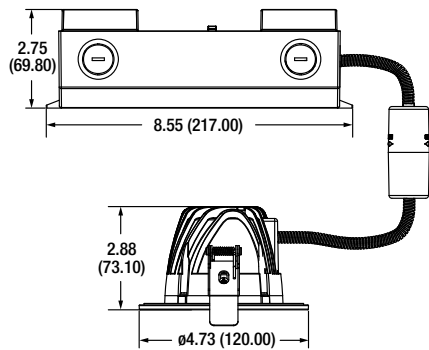
Physical Information

| Lamp Description | Width in (mm) | Height in (mm) |
|------------------|---------------|----------------|
| RT3              | 3.86 (98.00)  | 2.5 (63.50)    |
| RT4              | 4.73 (120.00) | 2.88 (73.10)   |
| RT6              | 6.70 (170.00) | 7.10 (180.10)  |
| RT8              | 9.06 (230.00) | 8.04 (204.10)  |

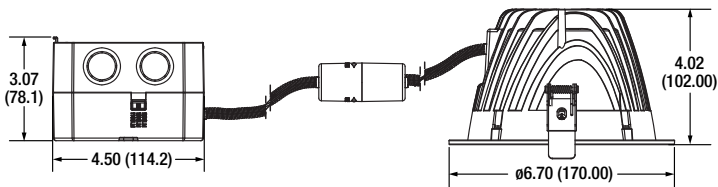
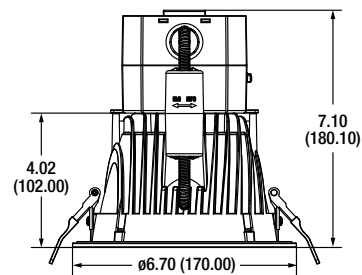
RT3



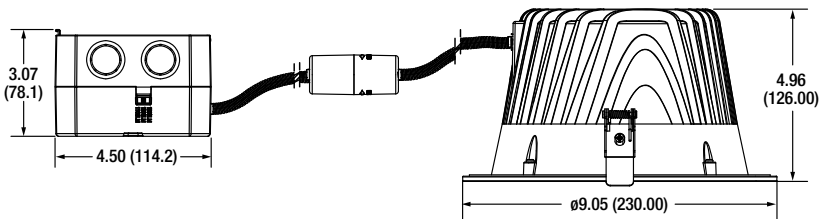
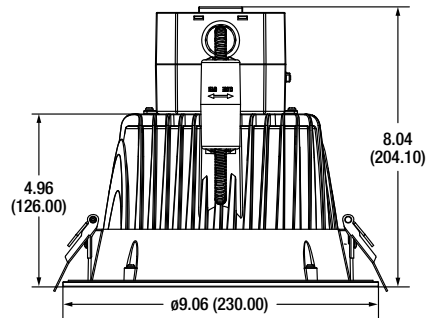
RT4



RT6



RT8

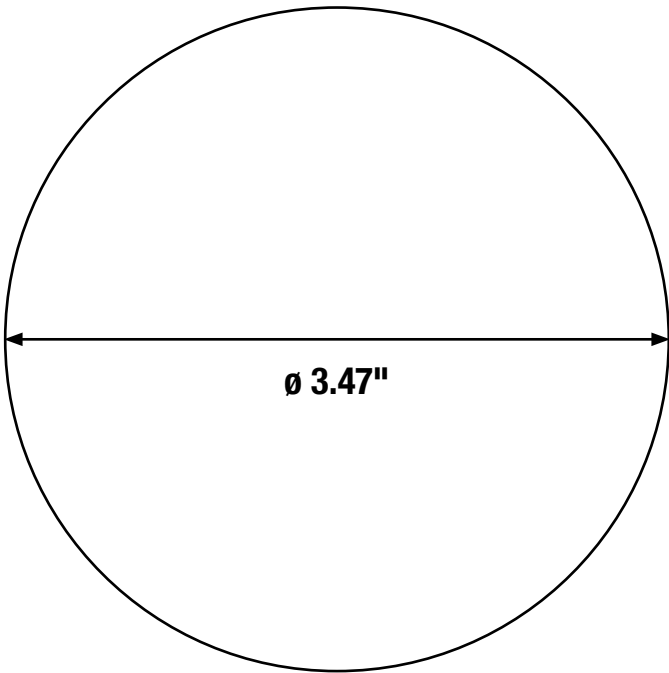


Dimensions in inches (mm)

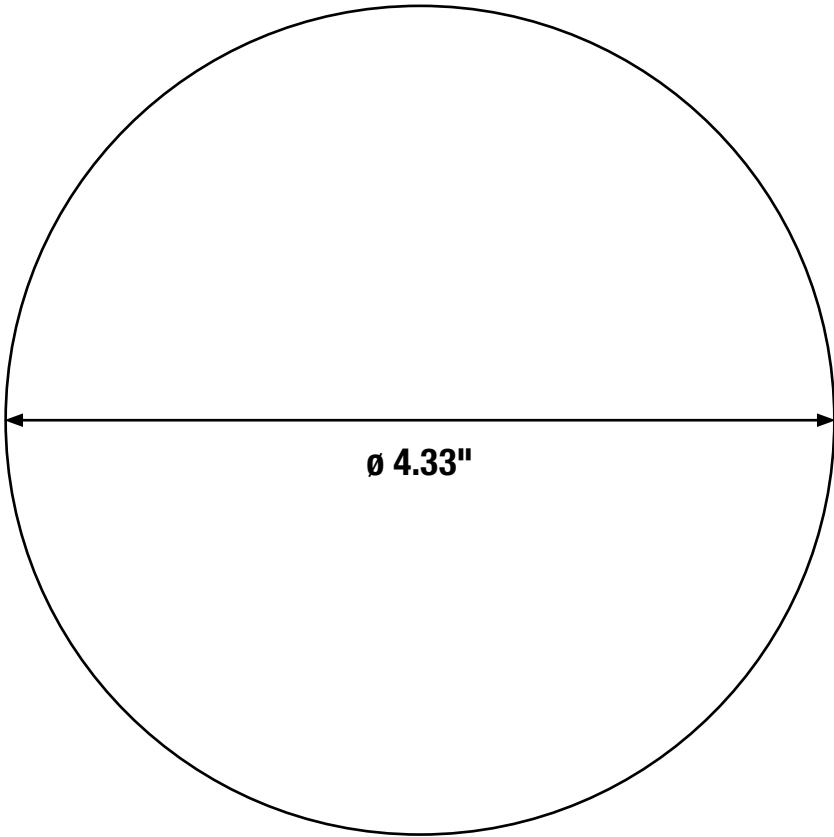


Hole Cut Templates

RT3 Hole Cut Template

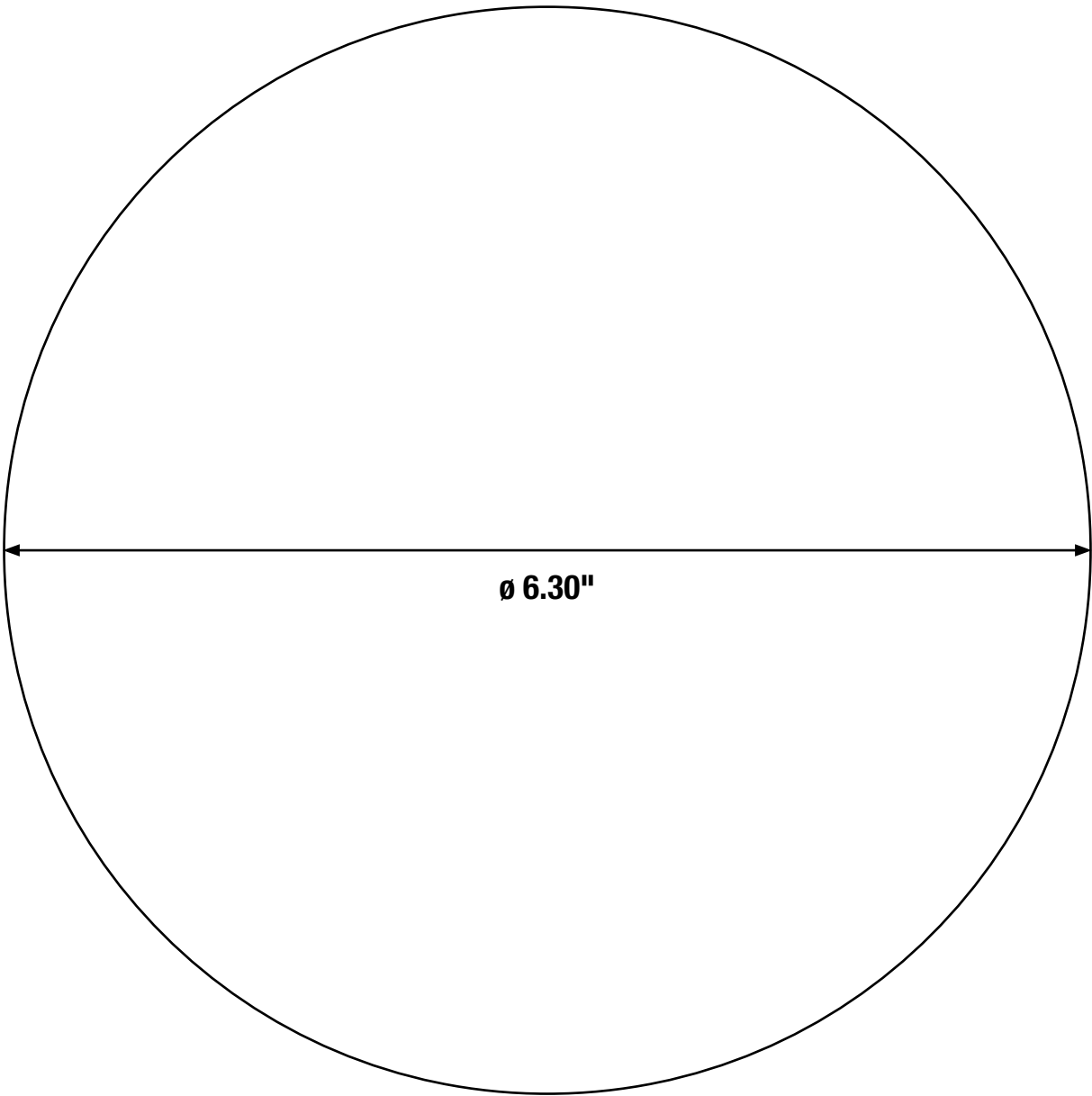


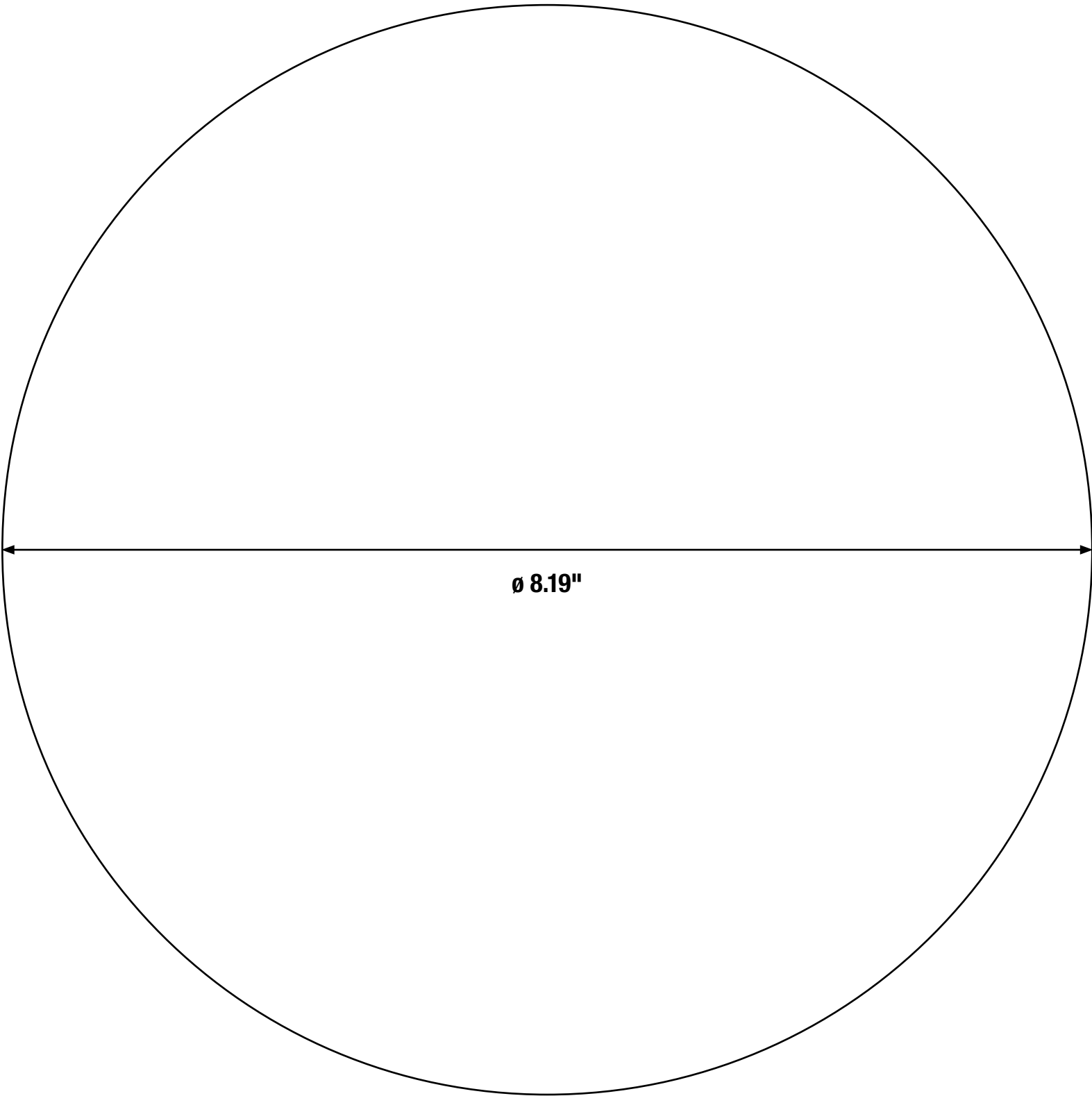
RT4 Hole Cut Template



Hole Cut Templates

RT6 Hole Cut Template







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