

|             |  |           |  |      |  |
|-------------|--|-----------|--|------|--|
| Project     |  | Catalog # |  | Type |  |
| Prepared by |  | Notes     |  | Date |  |



## HALO

### RA Baffle Adjustable Recessed Canless LED Downlight

4" and 5/6" Baffle Adjustable Recessed Canless LED Downlights mount directly to the ceiling and provide up to 35° of tilt and 360° of rotation

#### Typical Applications

Residential

#### Interactive Menu

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- Product Warranty

#### Product Certification



Refer to ENERGY STAR® Certified Products List.  
Can be used to comply with California Title 24 High Efficacy requirements.  
Certified to California Appliance Efficiency Database under JAB.

#### Product Features

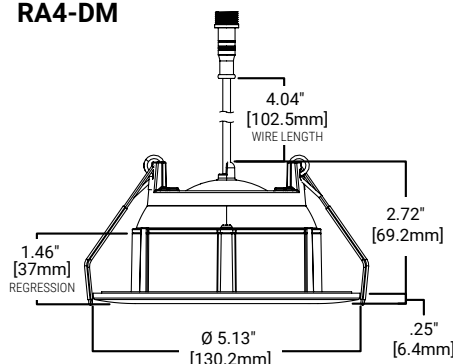


#### Top Product Features

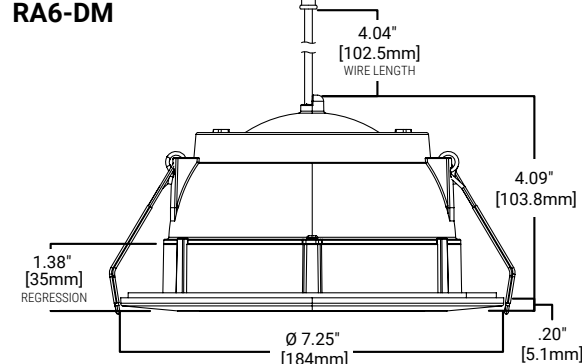
- Available in 4" and 6" LED trims mount directly to ceilings - no housing required
- Adjustable gimbal tilts up to 35° and rotates 360° to aim light where it's needed
- 6-Position Switch: 5 Color Field-SeleCCTable soft white to daylight (2700K, 3000K, 3500K, 4000K, 5000K) + Dim-to-Warm (3000K dims to 1800K)
- Selectable Lumen Switch: Choose between 600/900 lumens
- 5% phase cut LE/TE dimming (120V input) with compatible controls (reference the RA Dimming Guide)

#### Dimensional and Mounting Details

RA4-DM



RA6-DM



[additional product diagrams](#)

## Order Information

| Catalog Number    | Description                         | Lumens (nominal)          | CRI    | CCT                                                                      | Driver                                | Finish      |
|-------------------|-------------------------------------|---------------------------|--------|--------------------------------------------------------------------------|---------------------------------------|-------------|
| RA4LS9FSD2W1EWHDM | 4" Adjustable Canless LED Downlight | 600/900 Selectable Lumens | 90+CRI | 6-Color Field-Selectable: 2700K, 3000K, 3500K, 4000K, 5000K, Dim-to-Warm | 5% Phase Cut LE/TE Dimming, 120V 60Hz | Matte White |
| RA6LS9FSD2W1EWHDM | 6" Adjustable Canless LED Downlight | 600/900 Selectable Lumens | 90+CRI | 6-Color Field-Selectable: 2700K, 3000K, 3500K, 4000K, 5000K, Dim-to-Warm | 5% Phase Cut LE/TE Dimming, 120V 60Hz | Matte White |

## Accessories

## Mounting Frames

MF4RC = 4" Round Mounting Frame with Drywall Collar

HL4RSMF = 4" Round-to-Square Mounting Frame

MF6RC = 6" Round Mounting Frame with Drywall Collar

HL6RSMF = 6" Round-to-Square Mounting Frame

## Extension Cables

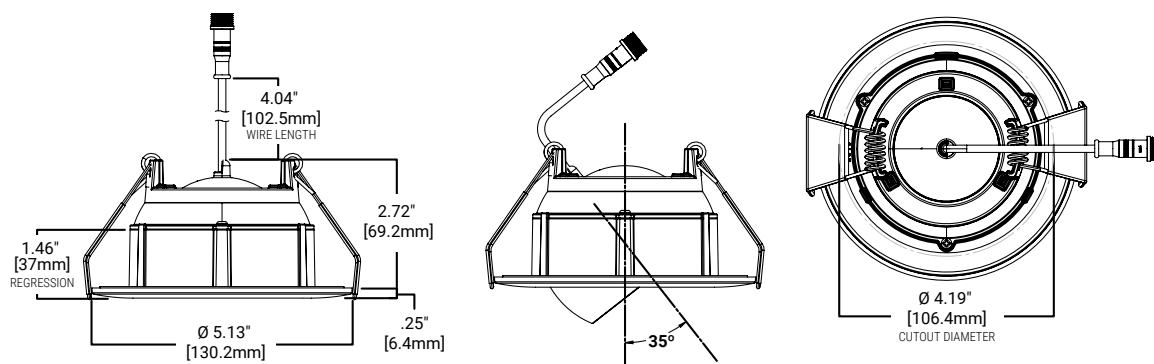
HLB06BLEEC = 6 ft. Extension Cable

HLB12BLEEC = 12 ft. Extension Cable

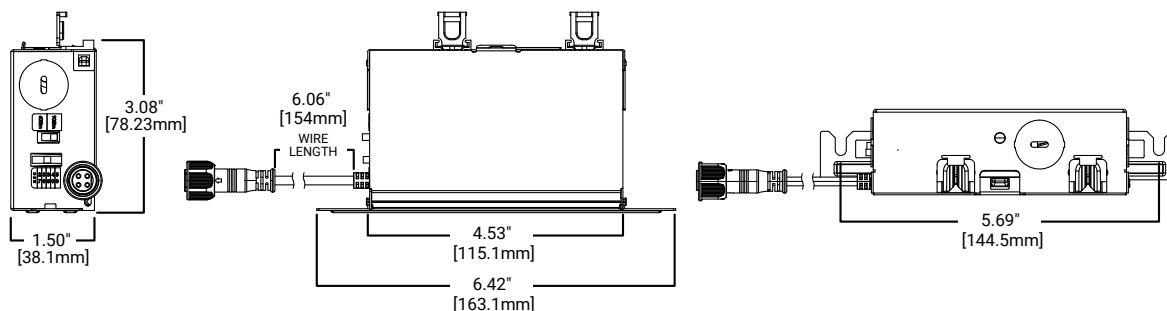
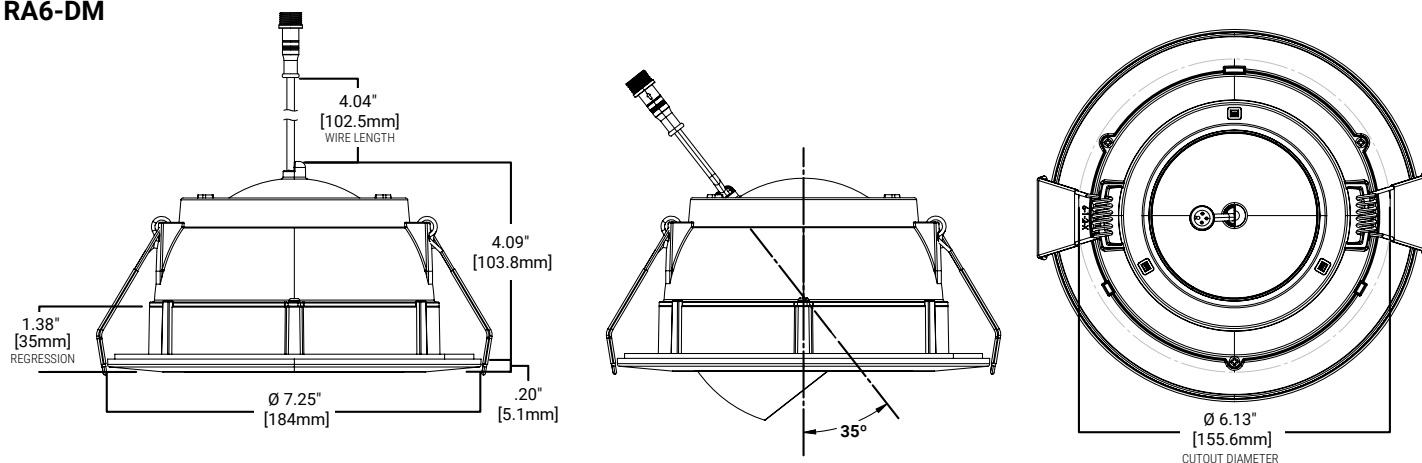
HLB20BLEEC = 20 ft. Extension Cable

## Dimensional and Mounting Details

## RA4-DM



## RA6-DM



## Product Specifications

### Selectable System

- Use the 6-position color selector switch to choose between: Dim-to-Warm (3000K dims to 1800K), 2700K, 3000K, 3500K, 4000K, and 5000K
- Use the lumen select switch to choose the preferred brightness level

### Module - Trim

- Module construction includes LED array, heat sink, reflector, lens, baffle and trim ring
- Regressed baffle
- Heat sink designed to conduct heat away from the LED array, keeping the junction temperatures below specified maximums, even when installed in insulated ceiling environments
- Adjustable gimbal tilts up to 35° and rotates up to 360°

### LED Array

- Mid power LED array provides a uniform source with high efficiency and no pixilation
- 90 CRI minimum, R9 greater than 50
- Color accuracy at 4 SDCM in between Endpoints, provide color accuracy and uniformity.
- Factory default color temperature (CCT) is set to soft white (3000K)

### Optical Assembly

- Regressed lens
- Impact-resistant polycarbonate
- Convex form and lamp-like appearance

### Driver

- Integral 120V 60 Hz constant current driver provides noise free operation
- Inline electrical quick connect and E26 adapter (provided) provides mains connections
- Continuous, flicker-free phase cut (leading-edge/trailing-edge - LE/TE) dimming from 100% to 5% output with compatible dimmers
- \*See the RA Dimming Guide for compatible dimmers

### Retention

- No housing or junction box required
- The included remote junction box may be used in direct contact with insulation
- Installer must cut template out of drywall and install into aperture with the clips compressed
- When released, the spring clips will rest on to the back side of the drywall holding the fixture in place
- Not for installation in recessed cans
- For new construction applications, use HALO Canless Mounting Frames prior to drywall installation

### Gasket

- Closed cell gaskets achieve restrictive airflow requirements without additional caulking

### Compliance

- UL Certified US and Canada Type IC suitable for direct contact with air permeable insulation
- Damp location listed. Not recommended for use in direct contact with spray foam insulation, reference NEMA LSD57-2013
- Airtight certified per ASTM-E283
- EMI/RFI emissions per FCC 47CFR Part 15 consumer limits
- Contains no mercury or lead and RoHS compliant
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- Can be used for State of California Title 24 high efficacy luminaire compliance. Complies with Title 24 JA8-2022-E.
- Can be used International Energy Conservation Code (IECC) high efficiency luminaire compliance.
- ENERGY STAR® listed, reference database for current listings

### Warranty

- Five year limited warranty, consult website for details. [www.cooperlighting.com/warranty](http://www.cooperlighting.com/warranty)

## Energy Data

### RA4LS9FSD2W1EWHDM - 3000K

|               |               |
|---------------|---------------|
| Lumens        | 600/900       |
| Input Voltage | 120V          |
| Input current | 0.08A/0.05A   |
| Input Power   | 9.3W/6.1W     |
| Efficiency    | 76.64%/77.33% |
| Inrush(A)     | 1.94          |
| THD           | 16/12.2       |
| PF            | 0.949/0.975   |
| Sound Rating  | <=22dba       |

| Catalog Number                  | CCT   | Watts | lumens | LPW   | CRI |
|---------------------------------|-------|-------|--------|-------|-----|
| RA4LS9FSD2W1EWHDM<br>600 Lumens | 2700K | 6.1   | 615    | 100.8 | 92  |
|                                 | 3000K | 6.2   | 620    | 100.0 | 93  |
|                                 | 3500K | 6.1   | 635    | 104.1 | 93  |
|                                 | 4000K | 6.1   | 630    | 103.3 | 93  |
|                                 | 5000K | 6.1   | 630    | 103.3 | 93  |

| Catalog Number                  | CCT   | Watts | lumens | LPW   | CRI |
|---------------------------------|-------|-------|--------|-------|-----|
| RA4LS9FSD2W1EWHDM<br>900 Lumens | 2700K | 9.2   | 885    | 96.2  | 92  |
|                                 | 3000K | 9.2   | 920    | 100.0 | 93  |
|                                 | 3500K | 9.4   | 910    | 96.8  | 93  |
|                                 | 4000K | 9.3   | 905    | 97.3  | 93  |
|                                 | 5000K | 9.3   | 900    | 96.8  | 93  |

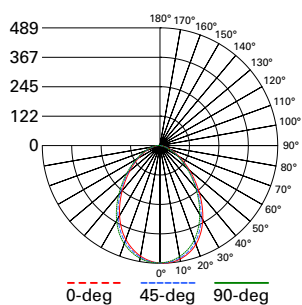
### RA6LS9FSD2W1EWHDM - 3000K

|               |               |
|---------------|---------------|
| Lumens        | 600/1000      |
| Input Voltage | 120V          |
| Input current | 0.053A/0.079A |
| Input Power   | 6.13W/9.32W   |
| Efficiency    | 76.64%/77.33% |
| Inrush(A)     | 1.94          |
| THD           | 16/12.2       |
| PF            | 0.949/0.975   |
| Sound Rating  | <=22dba       |

| Catalog Number                  | CCT   | Watts | lumens | LPW   | CRI |
|---------------------------------|-------|-------|--------|-------|-----|
| RA6LS9FSD2W1EWHDM<br>600 Lumens | 2700K | 6.3   | 650    | 103.2 | 93  |
|                                 | 3000K | 6.3   | 630    | 100.0 | 93  |
|                                 | 3500K | 6.3   | 670    | 106.3 | 93  |
|                                 | 4000K | 6.3   | 675    | 107.1 | 93  |
|                                 | 5000K | 6.3   | 675    | 107.1 | 93  |

| Catalog Number                  | CCT   | Watts | lumens | LPW   | CRI |
|---------------------------------|-------|-------|--------|-------|-----|
| RA6LS9FSD2W1EWHDM<br>900 Lumens | 2700K | 9.6   | 920    | 95.8  | 93  |
|                                 | 3000K | 9.5   | 950    | 100.0 | 93  |
|                                 | 3500K | 9.6   | 950    | 99.0  | 93  |
|                                 | 4000K | 9.6   | 960    | 100.0 | 93  |
|                                 | 5000K | 9.5   | 955    | 100.5 | 93  |

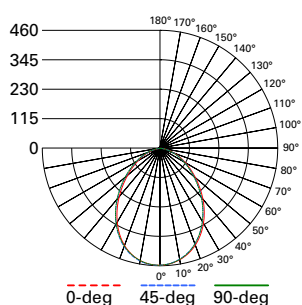
## Photometric Data

**RA4LS9FSD2W1EWHDM-900lm-3000K**

Spacing criterion:  
 (0-180) 1.09 | (90-270) 1.09 |  
 (Diagonal) 1.14  
 Beam Angle: 81°  
 Field Angle: 141°  
 Lumens: 920  
 Input Watts: 9.2 W  
 Efficacy: 100 LPW  
 UGR: 20  
 Test Report: P710078

| Zonal Lumen | Lumens | % Lumens |
|-------------|--------|----------|
| 0-30        | 351    | 38.2     |
| 0-40        | 537    | 58.3     |
| 0-60        | 807    | 87.7     |
| 0-90        | 920    | 100      |

|          |           |
|----------|-----------|
| TM-30-15 | Rf = 91   |
|          | Rg = 103  |
| CRI/CIE  | Ra = 94.6 |
|          | R9 = 74.6 |

**RA6LS9FSD2W1EWHDM-900lm-3000K**

Spacing criterion:  
 (0-180) 1.12 | (90-270) 1.12 |  
 (Diagonal) 1.19  
 Beam Angle: 86°  
 Field Angle: 147°  
 Lumens: 950  
 Input Watts: 9.5 W  
 Efficacy: 100 LPW  
 UGR: 19  
 Test Report: P710098

| Zonal Lumen | Lumens | % Lumens |
|-------------|--------|----------|
| 0-30        | 336    | 35.3     |
| 0-40        | 522    | 55       |
| 0-60        | 816    | 85.9     |
| 0-90        | 950    | 100      |

|          |           |
|----------|-----------|
| TM-30-15 | Rf = 93   |
|          | Rg = 101  |
| CRI/CIE  | Ra = 96.9 |
|          | R9 = 81.3 |

