



Light Engine Assembly



Round



Square



Round Adjustable



Square Adjustable



## Product Features

Helios Series Recessed Downlight represents the new generation of the ALLURE line, bringing the industry's best performance small-aperture downlights. Trim, optics, and aiming options provide the highest quality of light possible, offering uncompromised performance, finishes, and serviceability. Powerful 10W and 18W 90CRI Bridgelux light engine available with 3000K and 4000K CCT. Heatsink and trim made from aluminum extruded profile; trims available in round and square for fixed and adjustable, for downlighting or wall wash application, >90CRI color rendering; 82% of luminous flux after 50000 hours; cULus listed for damp location, universal power supply 0-10v dimming capability.

## Technical Specifications

|                       |                           |
|-----------------------|---------------------------|
| INPUT VOLTAGE         | AC120-277V                |
| FREQUENCY             | 50/60hz                   |
| LUMEN                 | 900 / 1600LM              |
| WATTAGE               | 10 / 18W                  |
| LPW                   | 90                        |
| COLOR TEMPERATURE     | 3000K, 4000K              |
| COLOR RENDERING INDEX | >90                       |
| DISTRIBUTION          | 24° / 36° / 60° Downlight |
| IP RATING             | Damp Location             |
| LIFE SPAN             | >50,000 Hours             |
| DIMMING               | 0-10v Dimming             |



## HELIOS SERIES | 2" RECESSED

### SUBMITTAL WORKSHEET

Order Code Example: LIGHT ENGINE

|     |      |      |      |
|-----|------|------|------|
| HL2 | - 18 | - 30 | - 24 |
| A   | B    | C    | D    |

Order Code Example: TRIM

HL2-DR-WH  
E

Order Code Example: MOUNTING / EMB

|     |            |
|-----|------------|
| NCH | EMB-H08170 |
| F   | G          |

#### A SERIES (CHOOSE ONE)

HL2 Helios Series 2" Recessed Downlight

#### B LIGHT ENGINE (CHOOSE ONE)

| CODE |    | POWER | LPW     |
|------|----|-------|---------|
| 10   | QS | 10W   | 87 Avg. |
| 18   | QS | 18W   | 87 Avg. |

#### C CCT (CHOOSE ONE)

| CODE |    | CCT   |
|------|----|-------|
| 30   | QS | 3000K |
| 40   | QS | 4000K |

#### D DISTRIBUTION (CHOOSE ONE)

| CODE |    | DISTRIBUTION |
|------|----|--------------|
| 24   | QS | Narrow - 24° |
| 36   | QS | Medium - 36° |
| 60   | QS | Wide - 60°   |

#### E TRIM (CHOOSE ONE)

|       |    |                                           |
|-------|----|-------------------------------------------|
| DR-WH | QS | Round Cone Trim, Smooth White             |
| DS-WH | QS | Square Cone Trim, Smooth White            |
| AR-WH | QS | Round Adjustable Cone Trim, Smooth White  |
| AS-WH | QS | Square Adjustable Cone Trim, Smooth White |

#### F HOUSING (CHOOSE ONE)

|       |    |                                                                                  |
|-------|----|----------------------------------------------------------------------------------|
| RM    | QS | For Retrofit/Remodel, Remote Driver with Enclosure 120-277V Input, 0-10V Dimming |
| NCH   | QS | New Construction Housing, Integral Driver 120-277V Input, 0-10V Dimming          |
| RM-T  | QS | For Retrofit/Remodel, Remote Driver with Enclosure 120-277V Input, Triac Dimming |
| NCH-T | QS | New Construction Housing, Integral Driver 120-277V Input, Triac Dimming          |

#### G EMERGENCY BATTERY (CHOOSE ONE)

|            |    |                 |            |    |                  |
|------------|----|-----------------|------------|----|------------------|
| EMB-H08170 | QS | 8W External EMB | EMB-H18170 | QS | 18W External EMB |
|------------|----|-----------------|------------|----|------------------|

## HELIOS SERIES | 2" RECESSED

### DIMENSIONS

| CODE        | DIMENSION |         |
|-------------|-----------|---------|
|             | H         | W       |
| HL2 Module  | 2.35"     | ø 2.15" |
| Optics Lens | 1.00"     | ø 1.96" |



#### HL2 Light Engine Summary

**LED Chip:** Bridgelux

**Power:** 10W / 18W

**Quality:** >90 CRI, 3-step SDCM

**CCT:** 3000K or 4000K

**Input:** 120~277V, 50/60Hz

**Dimming:** 0-10V Dimming, continuous dimming to 10%

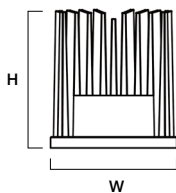
**Dimmer:** Tested with Lutron Diva-DVTV, Leviton IP-710-DL

**Power Factor:** Greater than 0.9

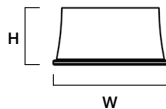
**Ambient Operating Temperature:** -20°C to 40°C

**Lifetime:** 50,000 hours at 70% lumen maintenance

**Listing:** cULus Damp Location



LED Module



Optic Lens

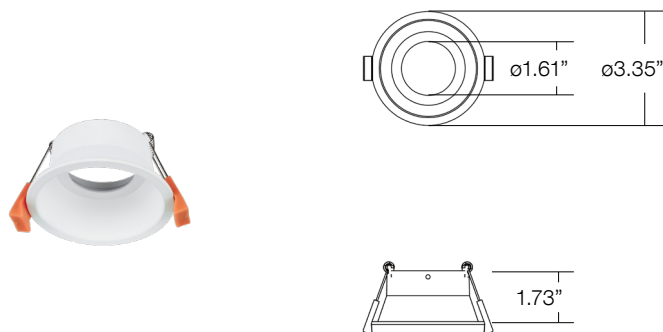
#### HL2 Optic Lens

**Distribution:** 24° / 36° / 60°

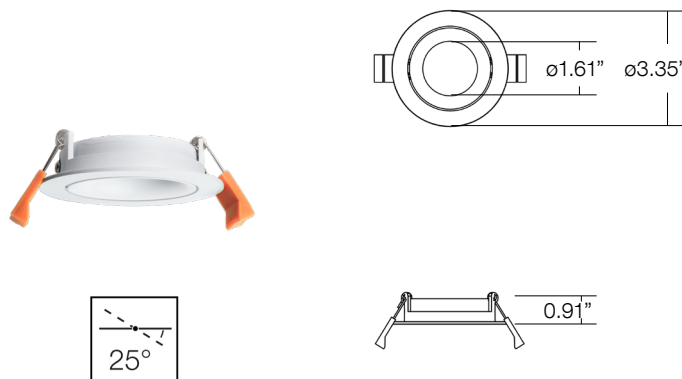
## HELIOS SERIES | 2" RECESSED

### DIMENSIONS - TRIMS

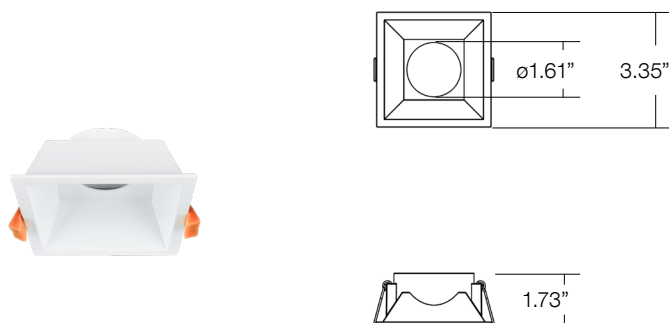
**DR-WH** - Round Cone Trim, Smooth White



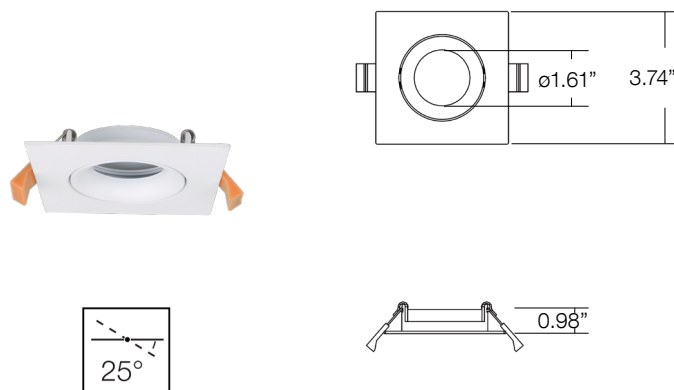
**AR-WH** - Round Adjustable Cone Trim, Smooth White



**DS-WH** - Square Cone Trim, Smooth White



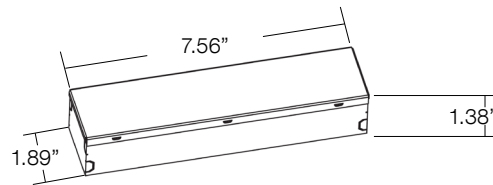
**AS-WH** - Square Adjustable Cone Trim, Smooth White



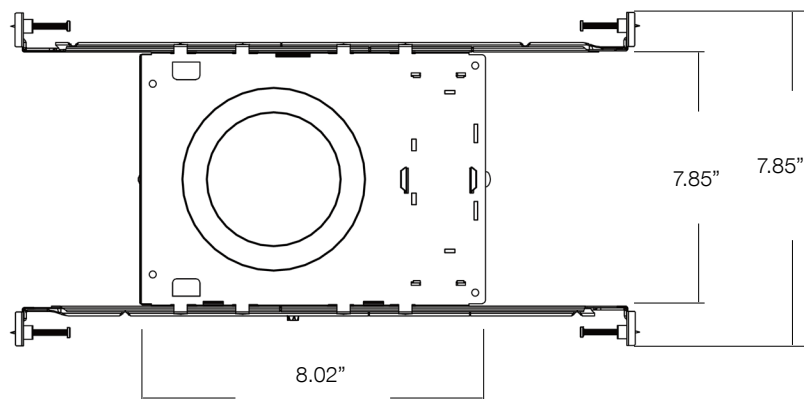
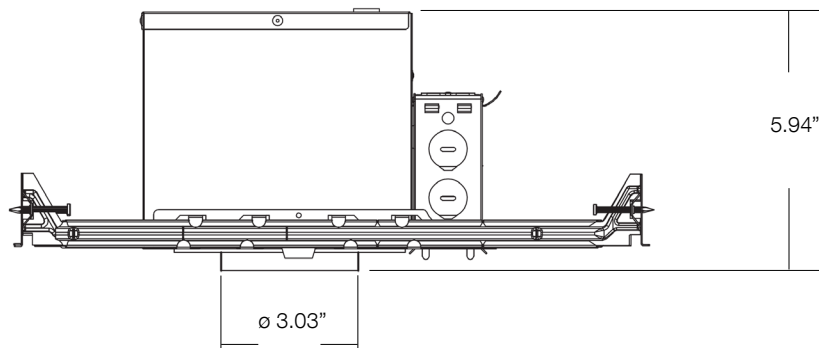
## HELIOS SERIES | 2" RECESSED

### DIMENSIONS - HOUSING

**RM** - No Housing, Remote Mount Driver with Enclosure



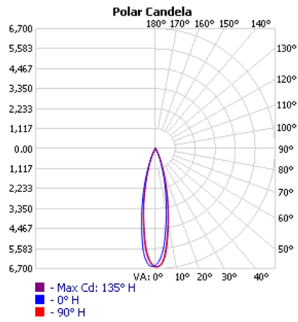
**NCH** - New Construction Housing, Integral Driver



## HELIOS SERIES | 2" RECESSED

### PERFORMANCE

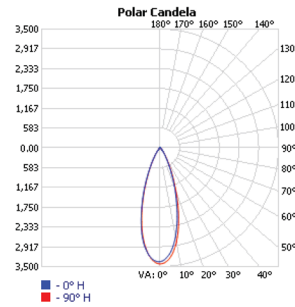
IES: HL2-H30-24 @ 18W 3000K 24°



| Zone  | Lumen | Luminaire% |
|-------|-------|------------|
| 0-30  | 1389  | 92.30      |
| 0-40  | 1453  | 96.60      |
| 0-60  | 1488  | 98.90      |
| 0-90  | 1500  | 99.70      |
| 0-180 | 1506  | 100        |

Lumen: 1506  
Input Watts: 17.4 W  
Efficacy: 86.6 LPW

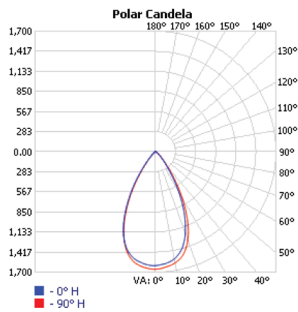
IES: HL2-H30-36 @ 18W 3000K 36°



| Zone  | Lumen | Luminaire% |
|-------|-------|------------|
| 0-30  | 1225  | 82.90      |
| 0-40  | 1378  | 93.20      |
| 0-60  | 1462  | 98.90      |
| 0-90  | 1474  | 99.70      |
| 0-180 | 1478  | 100        |

Lumen: 1478  
Input Watts: 17.4 W  
Efficacy: 85 LPW

IES: HL2-H30-24 @ 18W 3000K 60°



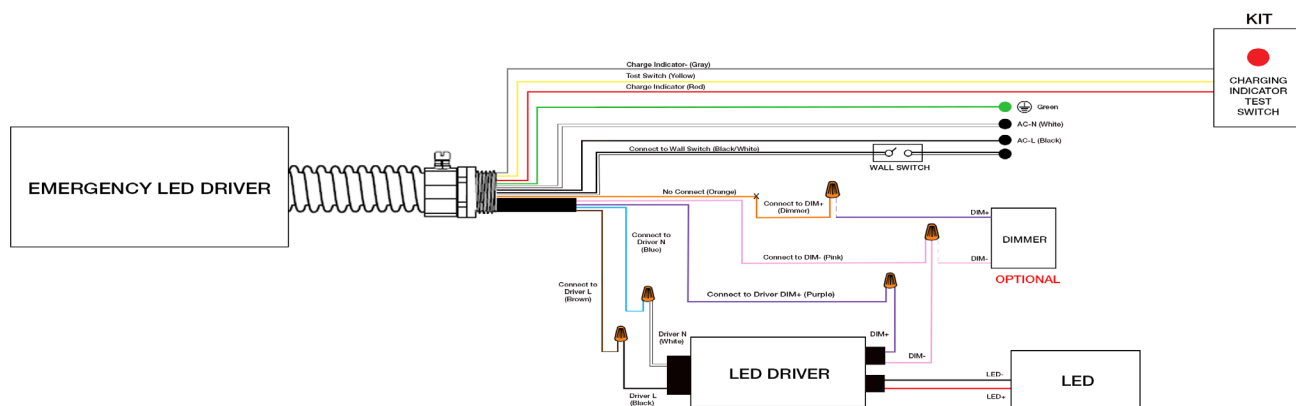
| Zone  | Lumen | Luminaire% |
|-------|-------|------------|
| 0-30  | 1015  | 71.80      |
| 0-40  | 1280  | 90.60      |
| 0-60  | 1398  | 98.90      |
| 0-90  | 1409  | 99.70      |
| 0-180 | 1413  | 100        |

Lumen: 1413  
Input Watts: 17.4 W  
Efficacy: 81 LPW

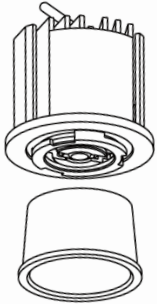
## HELIOS SERIES | 2" RECESSED

### EMB SPEC

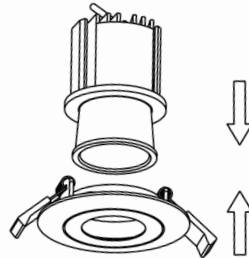
| Model      | Battery Capacity | Input      | Output | Output Power | Operating Temp             | Installation  |
|------------|------------------|------------|--------|--------------|----------------------------|---------------|
| EMB-H08170 | 90mins           | 100-347VAC | 170VDC | 8W           | 0°C ~ 50°C<br>32°F ~ 122°C | Field Install |
| EMB-H18170 | 90mins           | 100-347VAC | 170VDC | 18W          | 0°C ~ 50°C<br>32°F ~ 122°C | Field Install |



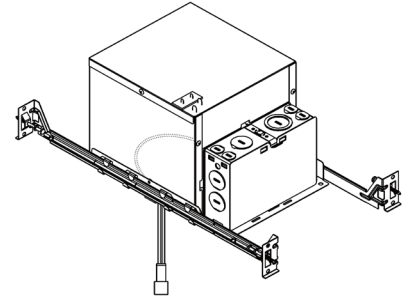
## INSTALLATION



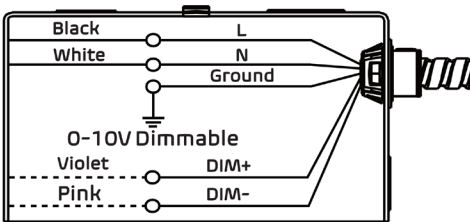
Twist and lock optic lens by turning clockwise



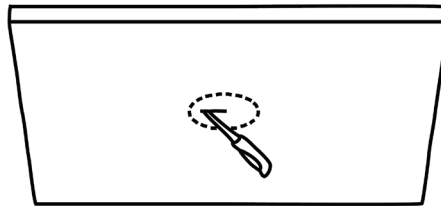
Press trim against optic lens to secure



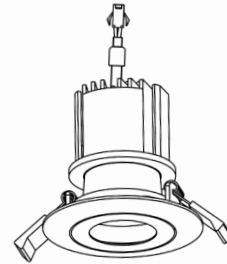
Install NCH housing into ceiling



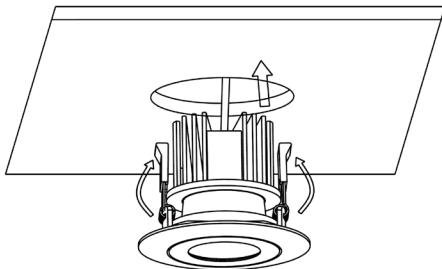
Bring power to NCH housing



Ceiling cutout (see Table 1)



Connect fixture with lead from NCH housing



Bend pressure clips upwards push fixture into housing to complete installation

**Table 1**

| Trim      | Cutout Size                    |
|-----------|--------------------------------|
| HL2-DR-WH | Round 2.95"min. to 3.03" max.  |
| HL2-AR-WH | Round 2.95"min. to 3.03" max.  |
| HL2-DS-WH | Square 2.95"min. to 3.03" max. |
| HL2-AS-WH | Round 2.95"min. to 3.03" max.  |