



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

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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%

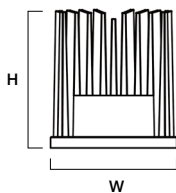
Dimmer: Tested with Lutron Diva-DVTV, Leviton IP-710-DL

Power Factor: Greater than 0.9

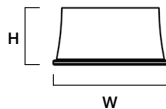
Ambient Operating Temperature: -20C° to 40°C

Lifetime: 50,000 hours at 70% lumen maintenance

Listing: cULus Damp Location



LED Module



Optic Lens

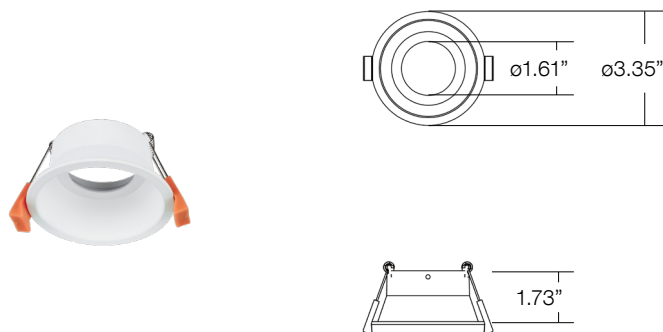
HL2 Optic Lens

Distribution: 24° / 36° / 60°

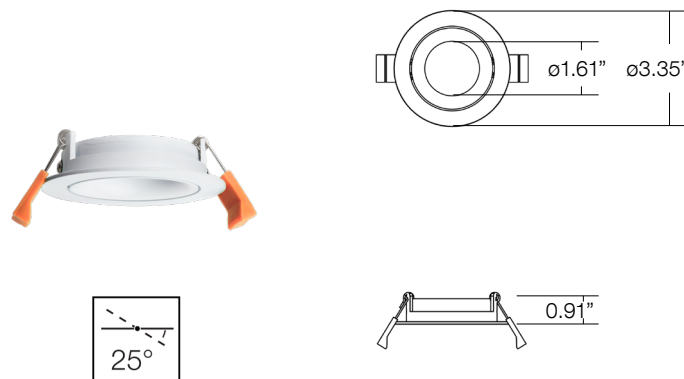
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DIMENSIONS - TRIMS

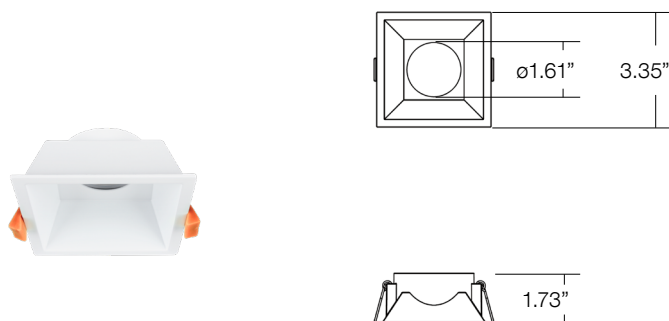
DR-WH - Round Cone Trim, Smooth White



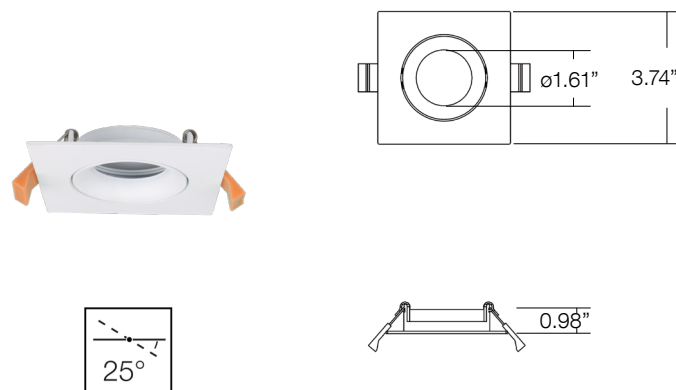
AR-WH - Round Adjustable Cone Trim, Smooth White



DS-WH - Square Cone Trim, Smooth White



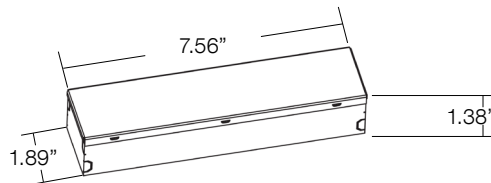
AS-WH - Square Adjustable Cone Trim, Smooth White



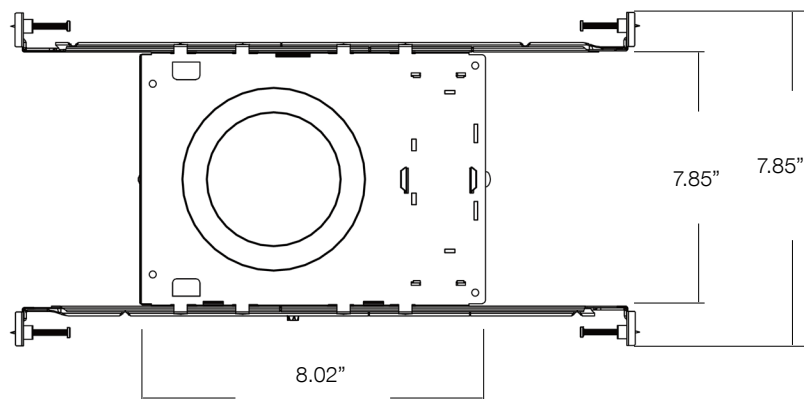
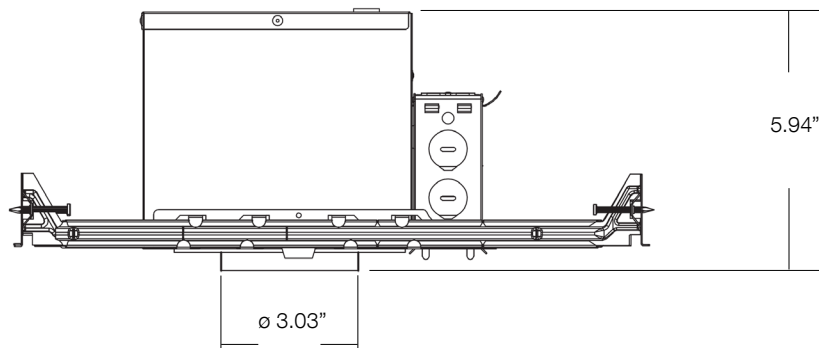
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DIMENSIONS - HOUSING

RM - No Housing, Remote Mount Driver with Enclosure



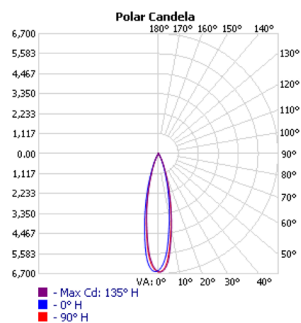
NCH - New Construction Housing, Integral Driver



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PERFORMANCE

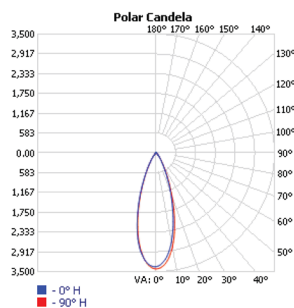
IES: HL2-H30-24 @ 18W 3000K 24°



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

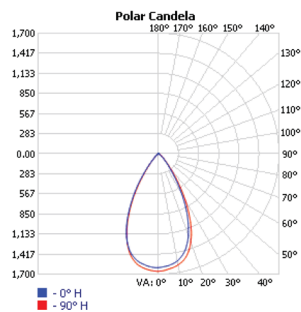
IES: HL2-H30-36 @ 18W 3000K 36°



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°



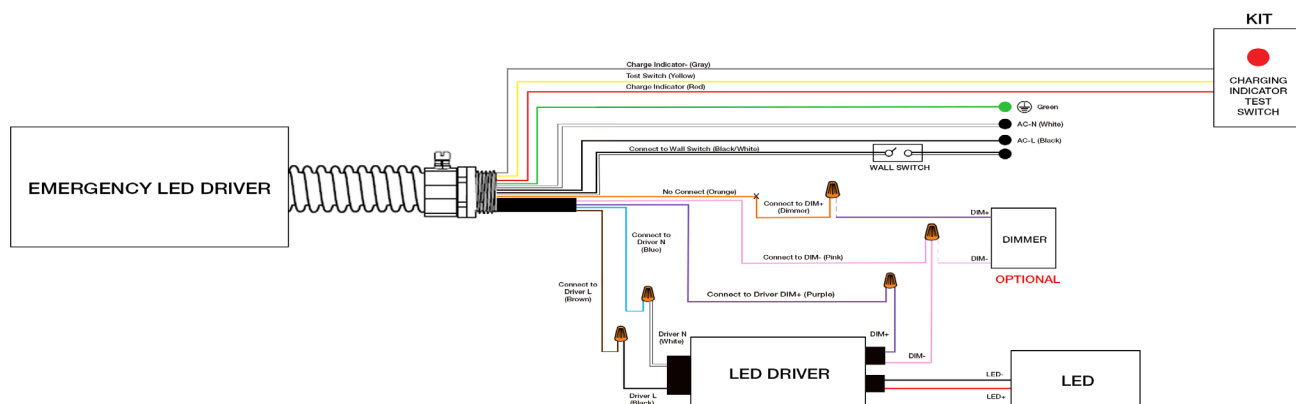
Zone	Lumen	Luminaire%
0-30	1015	71.80
0-40	1280	90.60
0-60	1398	98.90
0-90	1409	99.70
0-180	1413	100

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

HELIOS SERIES | 2" RECESSED

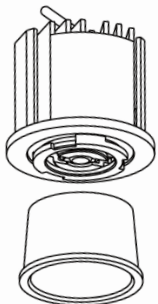
EMB SPEC

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

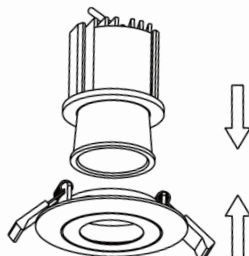


HELIOS SERIES | 2" RECESSED

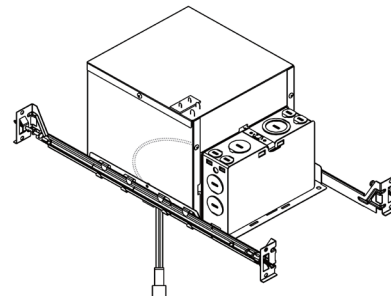
INSTALLATION



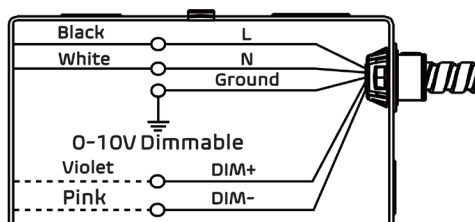
Twist and lock optic lens by turning clockwise



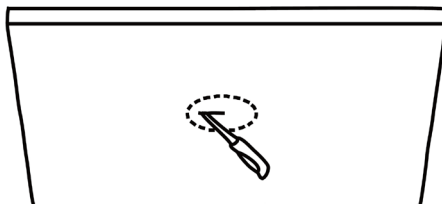
Press trim against optic lens to secure



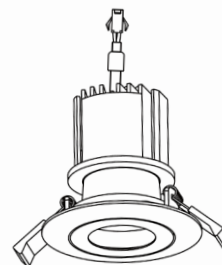
Install NCH housing into ceiling



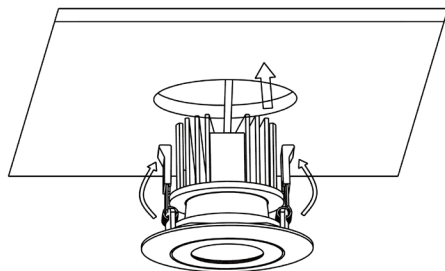
Bring power to NCH housing



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.