

# H Series

Project:	Type:
Product Code:	Date:

V 093025



## 3" Downlighting

**Optimized for Versatile Applications** Brilliant illumination and reliable performance for your entire space

**Brightness Switch** Easily select level of illumination with the flip of a switch

**True to Life Colors** Accurate color rendering means every detail, finish, and person in your space appears exactly as it should

### INSTALLATION

#### Ceiling Thickness

New Construction: 5/8"  
Fire/Plenum Rated: 0" to 1 1/4"  
Remodel: 5/8" up to 1 1/4"

#### Ceiling Material

Drywall

### TRIMS

#### Aperture

3"

#### Style

Round, Square, Flush, Adjustable

#### Finish

White, Black

### LIGHT OUTPUT & DISTRIBUTION

#### Module

Downlight

#### Lumens (Power)

Integrated Brightness Switch  
350 lm (5W), 750 lm (9W), 950lm (12W)

#### Color Quality

90+ CRI, 3-step SDCM

#### Color Temperature

- 2700K
- 3000K
- Warm Dim (3000K – 2200K)

#### Beam Spread

General (90°+)

#### Warranty

5 year limited warranty; 50,000 hours

### POWER & CONTROLS

#### Input Voltage

120 V

#### Dimming

TRIAC/ELV (5%)

### RATINGS & CERTIFICATIONS

#### Housing


- IC (Insulation Contact) Rated
- ASTM E283 Certified Air Tight
- RoHS Compliant
- Code Compliant for use in Fire Rated Assemblies up to a maximum of 2-hours (Option)

#### Module and Trim

- UL Listed for Wet Location (Adjustable Trim Damp Only)
- NSF Listed







**DMF LightSpeed**  
Our Quickest Shipping Selections are Highlighted for shipping in **2 days or less**

PRODUCT BUILDER - EMBEDDED TRIAC/ELV

HOUSING

EXAMPLE: H3BH

PRODUCT CODE		APPLICATION	
H3			
H3	3" Housing	BH	Standard New Construction <sup>1</sup>
		RM	Remodel
		FR	Fire/ Plenum Rated Low Profile Metal Housing <sup>2</sup>

<sup>1</sup> Barhangers allow horizontal adjustment for 8" - 24" joist spacing but no vertical adjustment

<sup>2</sup> Only compatible with Flush Mount Trim H3TRFxx.

H MODULE

EXAMPLE: HM30

PRODUCT CODE		CCT	
HM			
HM	90+ CRI General Ambient with Brightness Switch <i>Brightness Switch: 950 lm, 750 lm, or 350 lm</i>	27	2700K
		30	3000K
		3C	Warm Dim (3000K-2200K)

TRIM

EXAMPLE: H3TRSWH

PRODUCT CODE		SHAPE		STYLE		FINISH	
H3T							
H3T	3" Trim	R	Round	S	Recessed	WH	White
		S	Square <sup>3</sup>	F	Flush	BK	Black
				A	Adjustable <sup>4</sup>		

<sup>3</sup> Only available in Recessed style

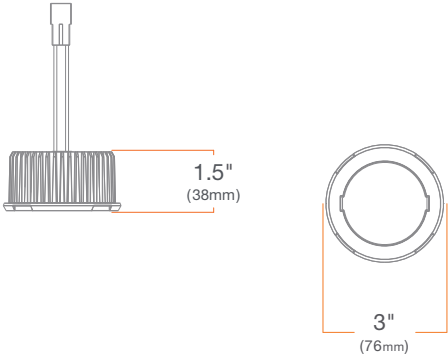
<sup>4</sup> Max tilt 30, damp listed only

HOUSING COMPATIBILITY

The H Series luminaire recessed housings (H3BH, H3RM) are UL Certified and intended for use with the H Series module (HM27, HM30, HM3C) or other certified 3" retrofit conversion kits (light source) that meet the following criteria: maximum height 3-3/8", maximum wattage 13W.



MODULE



SUMMARY

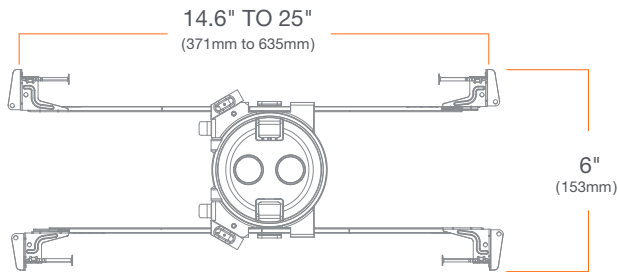
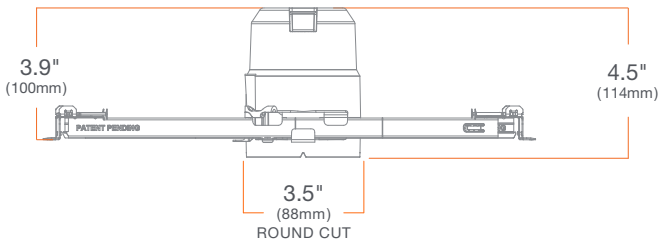
	STATIC CCT	WARM DIM
CCT	3000K, 2700K	3000K - 2200K
LUMENS (POWER)	Brightness Switch 350 lm (5W), 750 lm (9W), 950lm (12W)	Brightness Switch 350 lm (5W), 750 lm (9W), 950lm (12W)
EFFICACY	70 lm/W, 83 lm/W, 79 lm/W	70 lm/W, 83 lm/W, 79 lm/W
COLOR QUALITY	90+ CRI <sup>1</sup> , 3-step SDCM	90+ CRI <sup>1</sup> , 3-step SDCM
BEAM SPREAD	General Ambient (90°)	General Ambient (90°)
DIMMING	TRIAC/ELV (5%)	TRIAC/ELV (5%)
LED CHIP	Cree	Bridgelux
LISTINGS	ENERGY STAR® Qualified <sup>2</sup> , California Title 24 2016-2022 JA8-E compliant, UL Listed for Wet Location, UL Certified US-CA, Declare, RoHS compliant, NSF/ANSI 2 listed, Suitable for splash-zone <sup>3</sup> , shatter-resistant construction	

<sup>1</sup> Tested in accordance to IESNA LM-79-2008  
<sup>2</sup> Refer to ENERGY STAR Certified light fixtures database  
<sup>3</sup> This product is evaluated in accordance to NSF/ANSI 2 for Splash Zones having designated trim finishes.

ADDITIONAL

INPUT VOLTAGE: 120V, 50/60Hz	TOTAL HARMONIC DISTORTION: Less than 20%
MAX INPUT CURRENT (120V): 0.13 amps	AMBIENT OPERATING TEMPERATURE: -20°C to 40°C
CONNECTOR: PowerPlug® Luminaire Disconnect Model 182	WARRANTY: 5 year limited warranty; 50,000 hours at 70% lumen maintenance
POWER FACTOR: Greater than 0.9	

## HOUSING



## H Series

3" New Construction (Polycarbonate)

H3BH

## SUMMARY

**JUNCTION BOX:**

Polycarbonate construction equipped with 4 knockouts two 1/2" trade size knockouts and two romex knockouts on top: Approved for 8 (four in, four out) #12 AWG 70°C. DRD2X-QCM-HW  
Hardwire Adaptor Cable included in housing

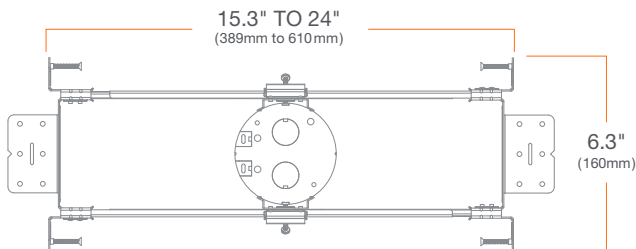
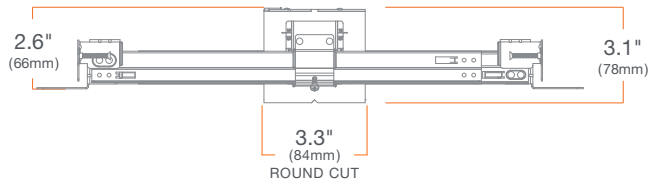
**BAR HANGER MOUNTING:** Pre-installed mounting brackets allow for adjustment between 14 5/8" and 24" joist spacing and come equipped with nails compatible with wood joist installation. Barhangers may also be removed to allow for the housing to be attached directly to a joist with (2) screws (not provided)

**CEILING THICKNESS RANGE:** Pre-installed mounting brackets do not allow for vertical adjustment and only accommodate ceiling thicknesses 1/3" up to 5/8"

**CUTOUT:** 3 1/2" (88 mm) round opening

**LISTINGS:** ASTM E283 certified Air Tight,  
IC (Insulation Contact) rated

## HOUSING



## H Series

3" Fire/Plenum Rated

**H3FR**

## SUMMARY

**JUNCTION BOX:**

Equipped with (4) 1/2" trade size knockouts (two side, two top) to allow straight conduit runs. Approved for 6 (three in, three out) #12 AWG 70°C through wiring conductors. DRD2X-QCM-HW Included in Housing

**BAR HANGER MOUNTING:** Pre-installed mounting brackets allow for adjustment between 14 and 24" joist spacing.

**CEILING THICKNESS RANGE:** Bar Hangers allow for vertical adjustment 0 up to 1 1/4"

**CUTOUT:** 3 5/16" (84mm) round opening

**LISTINGS:** Metallic outlet box certified UL514A, code compliant for use in appropriate fire-rated assemblies for up to 2-hours (Fire Rated only), STC/IIC Sound Rated, ASTM E283 certified Air Tight, IC (Insulation Contact) Rated, Compliant to FCC Title 46 Part 15; Class B

**TRIM COMPATIBILITY:** Flush Mount H3TRFxx Only

## HOUSING



## H Series

3" Remodel

H3RM

## SUMMARY

**JUNCTION BOX:**

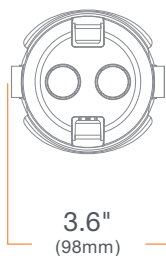
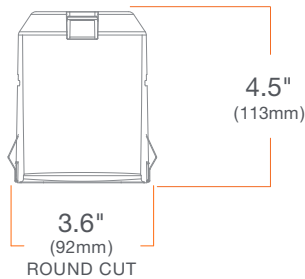
Polycarbonate construction equipped with 4 knockouts two 1/2" trade size knockouts and two romex knockouts on top: Approved for 8 (four in, four out) #12 AWG 70°C. DRD2X-QCM-HW Included in Housing

**MOUNTING:** Pre-installed mounting spring clips

**CEILING THICKNESS RANGE:** 5/8" up to 1 1/4"

**CUTOUT:** 3 5/8" round opening

**LISTINGS:** ASTM E283 certified Air Tight, IC (Insulation Contact) rated



**TRIMS**



# H Series

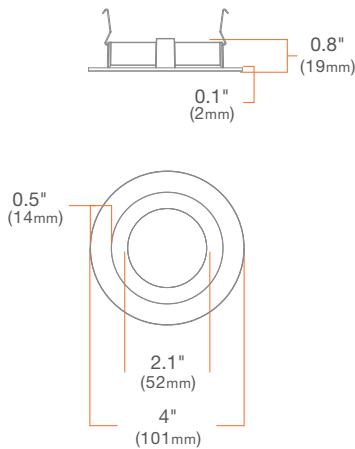
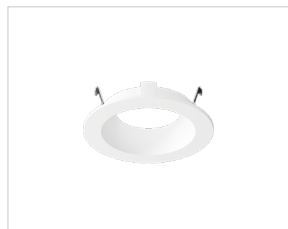
3" Trims

## SUMMARY

**CONSTRUCTION:** Die-cast aluminum

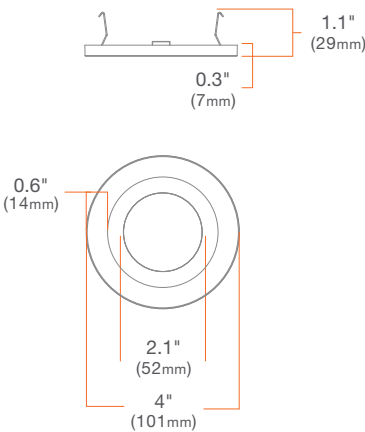
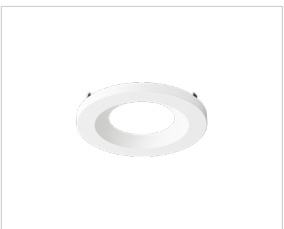
### 3" Round

**H3TRSWH**



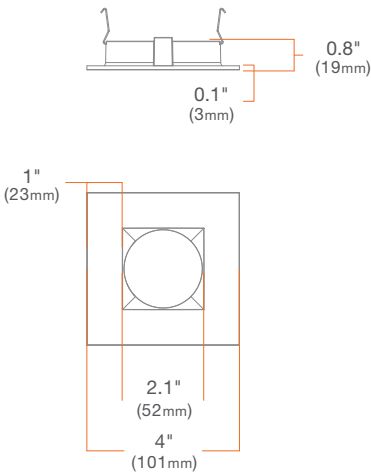
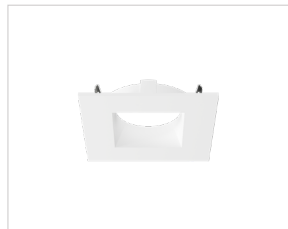
### 3" Flush

**H3TRFWH**



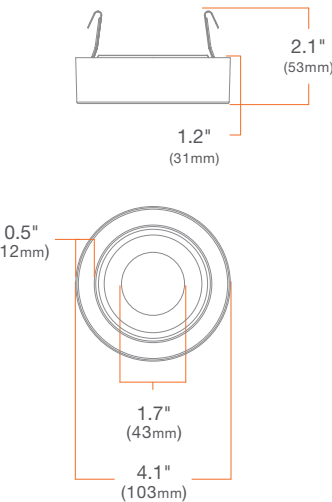
### 3" Square

**H3TSSWH**



### 3" Adjustable

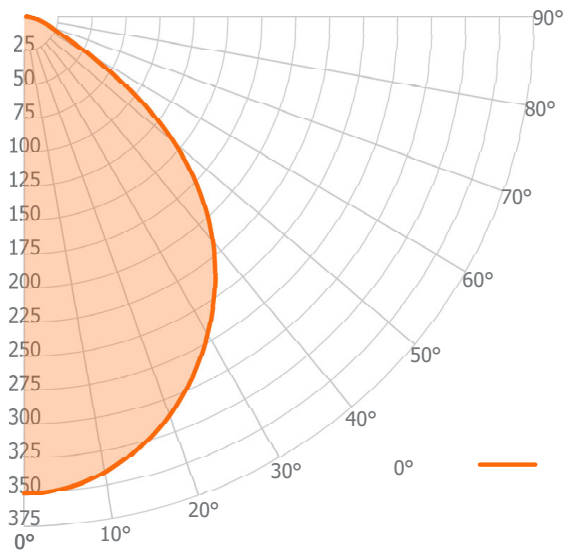
**H3TRAWH**



PHOTOMETRY

HM30 750 lm  
H3TRSWH

Candela Distribution



Luminous Intensity

	0°
0°	351
5°	348
10°	341
15°	328
20°	313
25°	293
30°	270
35°	244
40°	216
45°	183
50°	144
55°	99
60°	55
65°	30
70°	20
75°	13
80°	9
85°	4
90°	1

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0° - 30°	260	37%
0° - 40°	413	59%
0° - 60°	641	92%
0° - 90°	692	100%
0° - 180°	694	100%

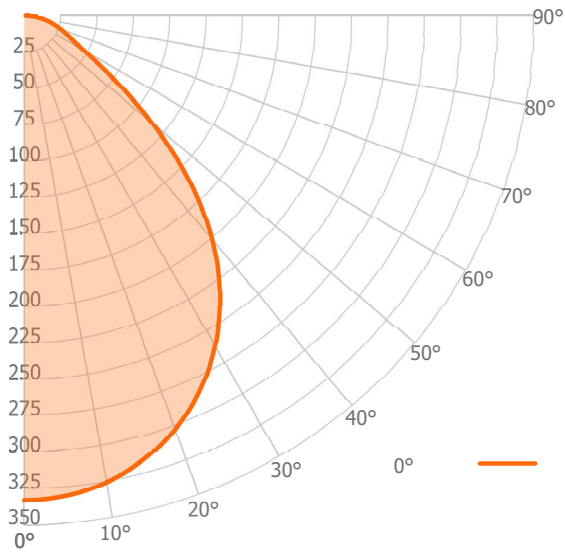
Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	39.0 fc	6.2 ft
6 ft	9.8 fc	12.4 ft
9 ft	4.3 fc	18.6 ft
12 ft	2.4 fc	24.9 ft

Input Watts: 9.0 W  
Lumens: 694 lm  
Efficacy: 77 lm/W  
Beam Angle: 92°

HM30 750 lm  
H3TSSWH

Candela Distribution



Luminous Intensity

	0°
0°	333
5°	331
10°	326
15°	316
20°	303
25°	285
30°	262
35°	234
40°	201
45°	160
50°	115
55°	74
60°	47
65°	35
70°	27
75°	20
80°	13
85°	7
90°	1

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0° - 30°	251	39%
0° - 40°	397	61%
0° - 60°	588	90%
0° - 90°	651	100%
0° - 180°	653	100%

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	37.0 fc	5.8 ft
6 ft	9.3 fc	11.7 ft
9 ft	4.1 fc	17.5 ft
12 ft	2.3 fc	23.4 ft

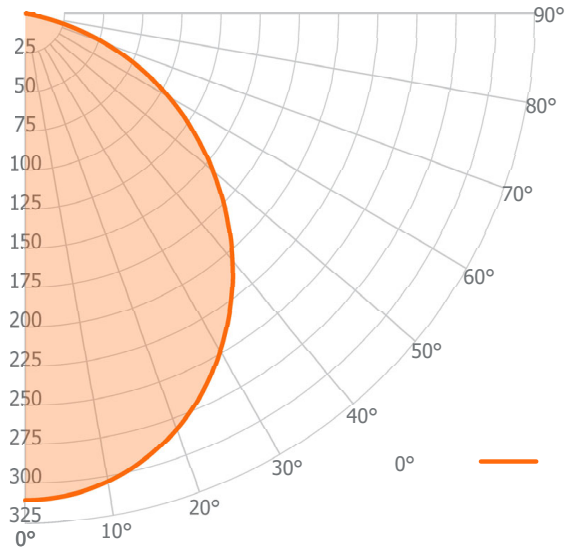
Input Watts: 9.0 W  
Lumens: 653 lm  
Efficacy: 73 lm/W  
Beam Angle: 89°



PHOTOMETRY

HM30 750 lm  
H3TRFWH

Candela Distribution



Luminous Intensity

	0°
0°	311
5°	309
10°	303
15°	294
20°	282
25°	267
30°	249
35°	228
40°	206
45°	181
50°	156
55°	131
60°	106
65°	80
70°	54
75°	28
80°	7
85°	2
90°	0

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0° - 30°	235	31%
0° - 40°	378	50%
0° - 60°	635	85%
0° - 90°	747	100%
0° - 180°	748	100%

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	34.5 fc	7.2 ft
6 ft	8.6 fc	14.4 ft
9 ft	3.8 fc	21.6 ft
12 ft	2.2 fc	28.8 ft

Input Watts: 9.0 W  
Lumens: 748 lm  
Efficacy: 83 lm/W  
Beam Angle: 100°