

HCPDL2

2" Deep Regress Downlights

2" aperture recessed downlights offers an extensive selection of optics, trim styles, configurations, beam spreads, housings, and mounting options.

Features:

- Architectural Friendly: Modular design, various unique combinations
- Adjustable Ring: 360° rotation and a maximum 30° tilt angle
- 2 in 1 Dimming: 0-10V (Dim to 1%) and TRIAC in one package
- COB LED: 4 Fixed CCT 90+ CRI or Dim to Warm 95+ CRI options.
- Beam Angle: 30° and 50° optics options
- Trimmed or trimless options
- New construction and remodel options for any site condition

STRUCTURE:

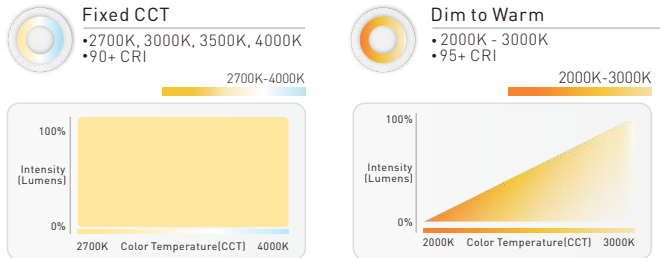
LED System:

LED: Powered by CREE or Bridgelux high efficiency COB LED chip.

CRI: 90+ for fixed CCT or 95+ CRI for Dim to Warm, producing outstanding illumination at a tight chromaticity specification and color binning process.

CCT: 2700K, 3000K, 3500K and 4000K fixed CCT with great color consistency, or Dim to Warm from 3000K to 2000K.

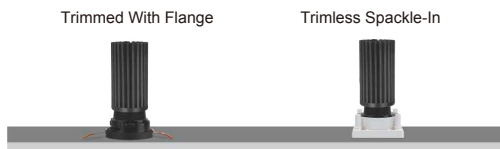
Light Engine / Heatsink: Aluminum housing acts as the heat sink to maximize life. The temperature of all heatsinks is controlled at 60–70°C.



Lens: Classic reflector-like design provides high lighting transmittance. It is effective in light control and anti-glare with side facula and fade-out facula. The MR16 standard size (diameter 1.96") design makes them widely practical. Available in 30° and 50° beam angles; beam spreads are interchangeable and can be easily swapped out in the field without tools.

Trim Finish / Shade: Powder coat white and black finishes offer a uniform finish, providing long-term performance and superior aesthetics, compatible with multiple trim shades.

Installation: Twist & Lock feature for easy trim installation. Durable tension clips allow for fast and easy flush installation.



Finish: Forged Aluminum.

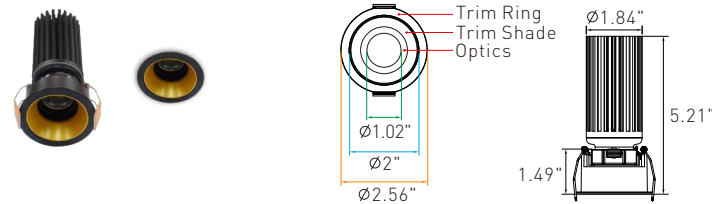
Compatible Dimmer: 0-10V Dimming (Dim to 1%)
Ask your rep for a list of compatible dimmers



DIMENSIONS

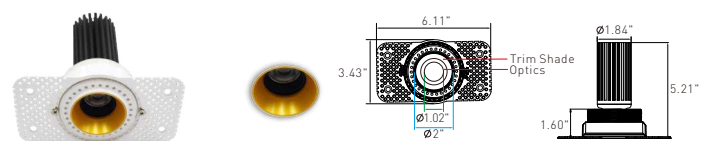
HCPDL2-TW / TB: 2" Round Trim

Opening Size Reference: $\Phi 2\text{-}1/4"$ (Round Hole)



HCPDL2-TL: 2" Round Trim

Opening Size Reference: $\Phi 3\text{-}1/2"$ (Round Hole)



▲ Install from Above. Service from Above.

LED Driver: Powered by a Class 2 high-efficiency LED driver with standard 0–10V dimming, continuously dimming to 1%, or Triac dimming that works with many types of controls. Thermal overload protection shuts down the luminaire when system temperatures exceed designed operating conditions.

THD: <20%

Power Factor: >0.9

Input Voltage: Standard electronic drivers are cULus recognized and available for 110–277V AC.

Environment: Damp rated for ambient operating temperatures of -20°C to +40°C (-4°F to +104°F).

Listings:

- cULus listed for damp locations.
- Five-year warranty for parts and components (labor not included).

NOTES:

- Ambient temperatures at fixture location should not exceed 40°C during normal operation.
- For interior use only

PERFORMANCE

Wattage Selectable	30° Beam @ 3000K		50° Beam @ 3000K		Dim to Warm 3000K~2000K 95+ CRI
	Efficacy	Delivered Lumens	Efficacy	Delivered Lumens	
5W	67LM/W	335LM	73LM/W	365LM	Up to 13W 840LM 70LM/W
8W	68LM/W	544LM	74LM/W	592LM	
10W	67LM/W	670LM	74LM/W	740LM	
13W	64LM/W	832LM	70LM/W	910LM	
16W	61LM/W	976LM	67LM/W	1072LM	

Remark: The lumens are subject to 3000K, 90+ CRI, 36° beam angle with white round trim. Lumen output may vary $\pm 5\%$ base on different CCT, beam angle, trim shape and shade.

PRODUCT ORDERING GUIDE

Example: HCPDL2-R-TW-16W-DT1-9027-B30-TA-RW-RM

HCPDL2 R - - 16W - DT1 - - - - TA

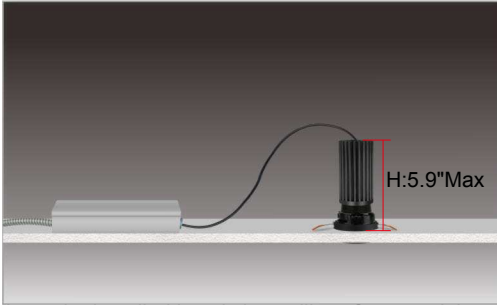
Product Family	Size and Shape	Flange Type	Wattage Selectable	Dimming Options	CRI Options	LED Color Options	Beam Options	Adjustable Holder
HCPDL2 Downlight Series	R QuickShip 2inch Round	TW QuickShip Trimmed With White Flange TB QuickShip Trimmed With Black Flange TL QuickShip Trimless  Install from Above. Service from Above.	16W QuickShip Up to 16W, 1000LM (5W, 8W, 10W, 13W, 16W Field-selectable)	DT1 QuickShip 0-10V, [Dim To 1%] Or TRIAC Dimming	90 QuickShip 90+ CRI 95 QuickShip 95+ CRI (ONLY For Dim To Warm)	27 QuickShip 2700K Cree COB 30 QuickShip 3000K Cree COB 35 QuickShip 3500K Cree COB 40 QuickShip 4000K Cree COB DW QuickShip Dim to Warm 3000K~2000K Bridgelux COB (13W Max)	B30 QuickShip Beam 30° B50 QuickShip Beam 50°	TA QuickShip Tilt Angle And 360° Horizontal Adjustment. 



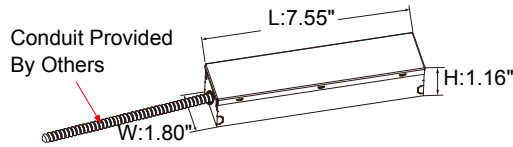
Trim Shade	Mounting	Optic Media(Optional)	Emergency(Optional)
 RW QuickShip White  RB QuickShip Black  RG QuickShip Gold  RC QuickShip Chrome Silver	RM QuickShip Remodel (Non-IC, Install from Below) NF QuickShip New Construction Frame Kit (Non-IC, Install from Above) NH QuickShip New Construction Housing Insulation Kit (IC, Install from Above)	{Blank} None HB QuickShip Honeycomb  WR QuickShip Waterproof Plate (Wet Rated)  Decorative Kit (Maximum 10W ONLY)  Yellow +  DYB  DYW QuickShip  Green +  DGB  DGW QuickShip  Transparent +  DTB  DTW QuickShip  Blue +  DBB  DBW QuickShip  Red +  DRB  DRW QuickShip	{Blank} None EM QuickShip Emergency Pre-install 16W LED Emergency Driver And Indicator Before Delivery 

MOUNTING

Remodel(NON-IC Rated, Install From Below)

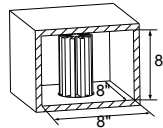


It can be installed in existing ceilings for remodel application. Simple cut a hole in existing drywall ceilings.

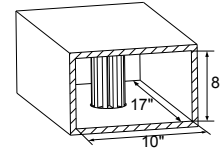


Mounting Space Required

Up to 10W: Min 8"x8"x8"

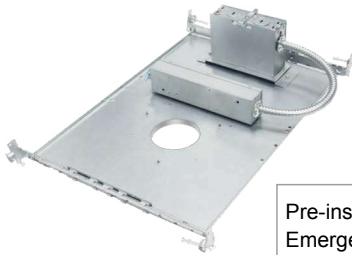


Up to 16W: Min 17"x10"x8"



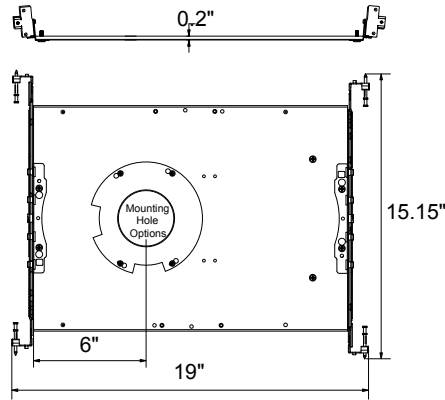
New Construction-Frame Kit (NON-IC Rated, Install From Above)

A rough-in frame option is available for all new constructions and a variety of ceiling types. LED driver box rests on the frame kit by magnet when installed as shown below.



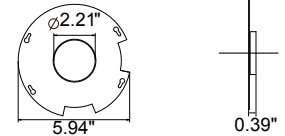
Pre-install LED
Emergency Driver
Available.

Mounting Space Required
Frame Kit (NON-IC)
Min 14"x19"x8"
Max 24"x19"x8"

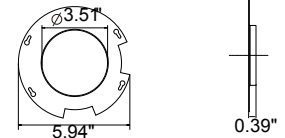


Mounting Hole Options

2" Round Trim



2" Round Trimless



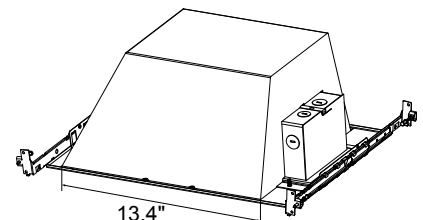
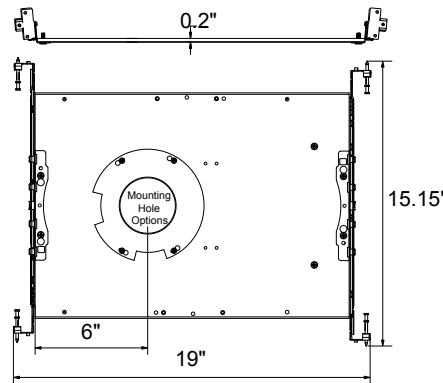
New Construction-Housing Insulation Kit (IC Rated, Install From Above)

An IC-rated housing frame kit allows placement of 2inch LED downlight in direct contact with insulation.



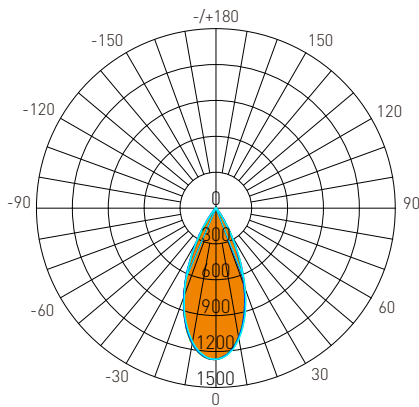
Pre-install LED
Emergency Driver
Available.

Mounting Space Required
Housing Insulation Kit (IC)
Min 14"x19"x7.5/16"
Max 24"x19"x 7.5/16"



DISTRIBUTION DIAGRAM

2" / 10W / 3000K / 50°



AVERAGE BEAM ANGLE(50%): 44.7°

Lumens: 711.83 Lm
Watts: 10 W
LPW: 74.02 Lm/W
CCT: 3000K

UNIT: cd
C0/180, 44.7°
C30/210, 44.6°
C60/240, 44.7°
C90/270, 44.9°

Zonal Flux Diagram

τ	C0	C45	C90	C135	C180
10	1103	1098	1108	1136	1149
20	707.5	695.1	709.7	754.8	784.6
30	235.5	250.8	252.5	286.5	288.0
40	28.5	34.08	34.15	43.27	43.93
50	4.399	4.663	4.221	4.627	4.103
60	3.207	3.187	3.495	3.034	3.023
70	1.180	1.284	1.499	1.207	1.123
80	0.1182	0.1257	0.3123	0.0988	0.0806
90	0	0	0	0	0
100	0	0.0317	0	0.0137	0
110	0.2477	0.2844	0.2788	0.2483	0.0813
120	0.8568	0.9700	0.9235	0.8664	0.3527
130	1.926	2.035	2.005	1.900	1.112
140	3.240	3.329	3.313	3.208	2.277
150	4.387	4.428	4.405	4.366	3.568
160	4.907	4.838	4.888	4.897	4.398
170	4.840	4.838	4.906	4.893	4.695
180	4.930	4.919	4.942	4.988	4.903
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

τ	φ total
0-10	113.9
10-20	377.2
20-30	605.2
30-40	683.9
40-50	696.3
50-60	699.7
60-70	702.0
70-80	702.8
80-90	702.9
90-100	702.9
100-110	703.0
110-120	703.3
120-130	704.2
130-140	705.9
140-150	708.0
150-160	710.0
160-170	711.4
170-180	711.8
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	155	312
80	340	899
75	1118	1658
70	1723	2191
65	2260	2944
60	3204	3496
55	3327	3276
50	3418	3284
45	5071	6881