

HCPDL3

3" Deep Regress Downlights

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

Features:

- Architectural Friendly: Up to 50,000 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: 4 optics series with 15°~60° options
- Trimmed, trimless with various shades options
- New construction and remodel driver options for any site condition

STRUCTURE:

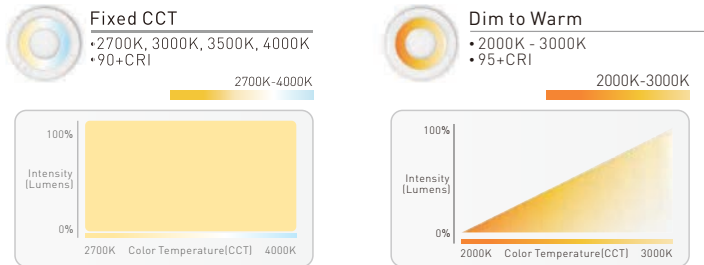
LED System:

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.



LED Driver: It is powered by Class 2 high efficiency LED driver, with a standard 0-10V dimming which continuous dims 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)

Compatible Dimmers:

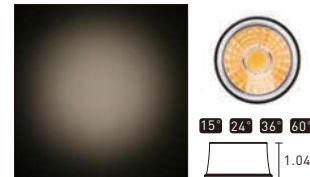
- 0-10V Dimming (Dim to 1%)
- TRIAC Dimming

Ask your rep for more information

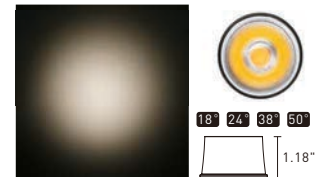


Lens: Classic reflector-like design provides high lighting transmittance. It effect in light control and anti-glare with side facula and fade-out facula. The MR16 standard size (diameter 1.96") design make them widely practical. Available in 15°~60° beam angles, beam spreads are interchangeable which can be easily swapped out in the field without tools.

Standard Lens



Low Glare Lens

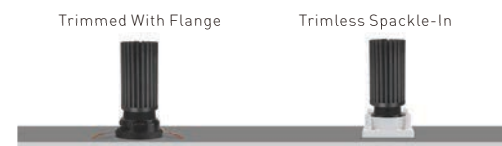


Trim Finish / Shade: Powder coat white and black finishes offer uniform finish providing long term performance and superior aesthetic, compatible for multiple trim shades.



Installation:

Twist & Lock feature for easy trim installation. Durable tension clips are allowing for fast and easy flush installation.



NOTES:

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

PRODUCT ORDERING GUIDE

Example: HCPDL3-R-TW-19W-DT1-9027-B36-HA-RW-RM

HCPDL3 - **19W** - **DT1** -

Product Family	Size and Shape	Flange Type	Wattage Selectable	Dimming Options	CRI Options	LED Color Options	Beam Options	Adjustable Holder
HCPDL3 Downlight Series	3R QuickShip 3inch Round	TW QuickShip Trimmed With White Flange	19W QuickShip Up to 19W, 1700LM (5W, 8W, 10W, 13W, 16W, 19W Field-selectable)	DT1 QuickShip 0-10V, (Dim To 1%) Or TRIAC Dimming	90 QuickShip 90+ CRI	27 QuickShip 2700K Cree COB	B15 QuickShip Beam 15°	HA QuickShip 360° Horizontal Adjustment
	3S QuickShip 3inch Square	TB QuickShip Trimmed With Black Flange				30 QuickShip 3000K Cree COB	B24 QuickShip Beam 24°	TA QuickShip Tilt Angle And 360° Horizontal Adjustment.
		TL QuickShip Trimless			95 QuickShip 95+ CRI (ONLY For Dim To Warm)	35 QuickShip 3500K Cree COB	B36 QuickShip Beam 36°	
					40 QuickShip 4000K Cree COB	40 QuickShip 4000K Cree COB	B60 QuickShip Beam 60°	
					DW QuickShip Dim to Warm 3000K~2000K Bridgelux COB (13W Max)		Low Glare Lens	
							L18 QuickShip Beam 18°	
							L24 QuickShip Beam 24°	
							L38 QuickShip Beam 38°	
							L50 QuickShip Beam 50°	

Trim Shade						Mounting	Optic Media(Optional)	Emergency (Optional)
Square						RM QuickShip Remodel (Non-IC, Install from Below)	{Blank} None	{Blank} None
							HB QuickShip Honeycomb (Only For Round/Square Shade)	EM QuickShip Emergency Pre-install 16W LED Emergency Driver And Indicator Before Delivery
Round						NF QuickShip New Construction-Frame Kit (Non-IC, Install from Above)	WR QuickShip Waterproof Plate (Wet Rated) For Round Shade	
							WS QuickShip Waterproof Plate (Wet Rated) For Square Shade	
Pinhole Round						NH QuickShip New Construction-Housing Insulation Kit (IC, Install from Above)	Decorative Kit (Only For Round Shade)	
							Yellow QuickShip + DYB DYW	
Pinhole Oval							Green QuickShip + DGB DGW	
							Transparent QuickShip + DTB DTW	
Round Wall Wash							Blue QuickShip + DBB DBW	
							Red QuickShip + DRB DRW	
Square Wall Wash								

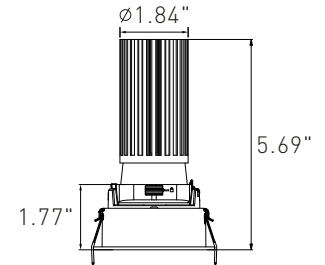
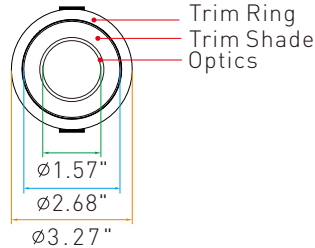
DIMENSIONS

HCPDL3R-TW / TB

3" Round Trim



Opening Size Reference: $\varnothing 3"$ (Round Hole)

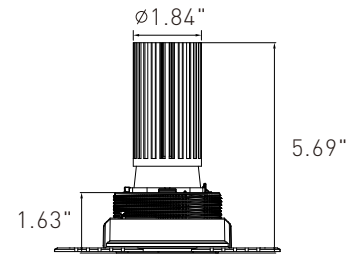
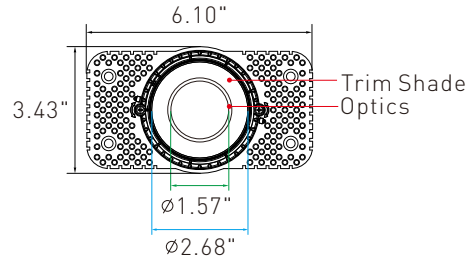


HCPDL3R-TL

3" Round Trimless



Opening Size Reference: $\varnothing 3"$ (Round Hole)

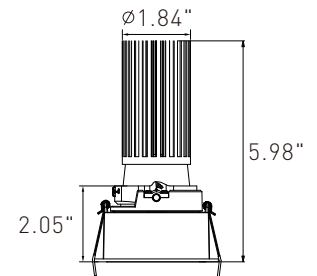
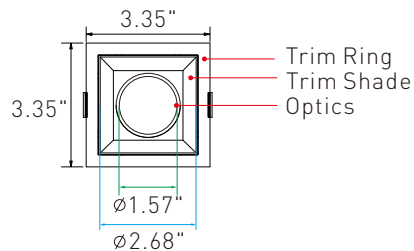


HCPDL3S-TW / TB

3" Square Trim



Opening Size Reference: $3" \times 2\frac{7}{8}"$ (Rectangle Hole)

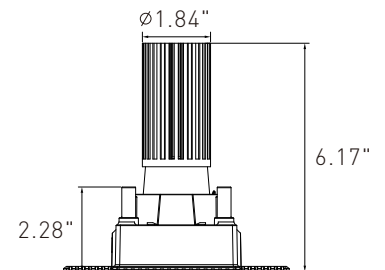
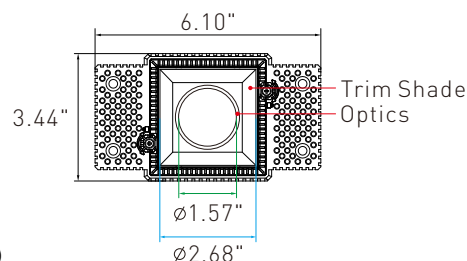


HCPDL3S-TL

3" Square Trimless

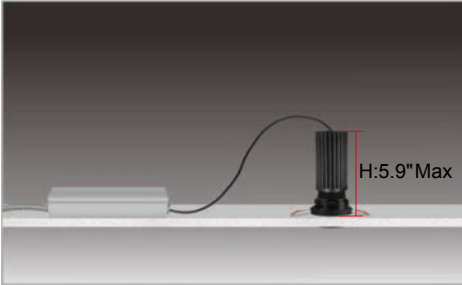


Opening Size Reference: $3\frac{1}{2}" \times 3\frac{5}{16}"$ (Square Hole)

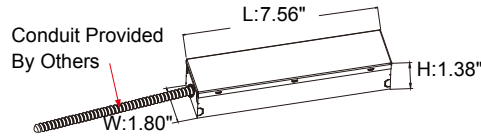


MOUNTING

Remodel(NON-IC Rated, Install From Below)

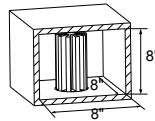


It can be installed in existing ceilings for remodel application. Simple cut a hole in existing drywall ceilings.

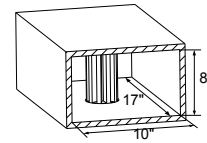


Mounting Space Required

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



Up to 19W: 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.



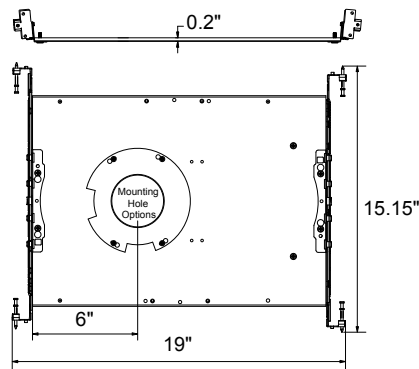
Pre-install LED
Emergency Driver
Available.

Mounting Space Required

Frame Kit (NON-IC)

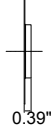
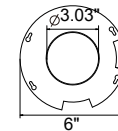
Min 14"x19"x8"

Max 24"x19"x8"

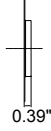
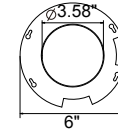


Mounting Hole Options

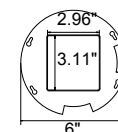
3" Round Trim



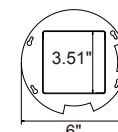
3" Round Trimless



3" Square Trim



3" Square Trimless



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

An IC-rated housing frame kit allows placement of 3inch LED downlight in direct contact with insulation.



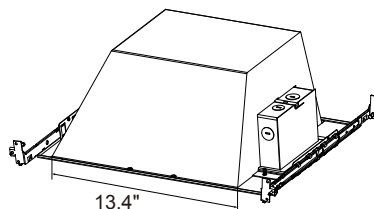
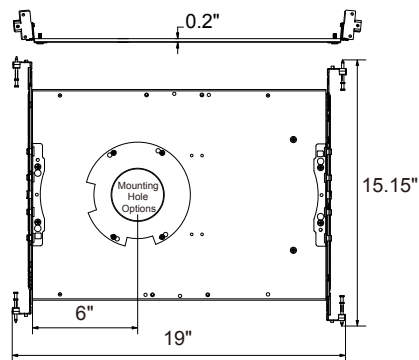
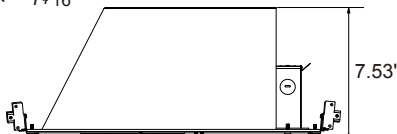
Pre-install LED
Emergency Driver
Available.

Mounting Space Required

Housing Insulation Kit (IC)

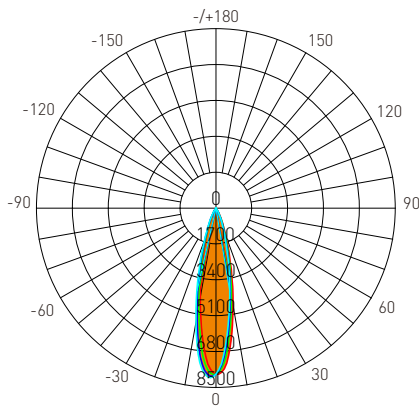
Min 14"x19"x7 5/16"

Max 24"x19"x 7 5/16"



DISTRIBUTION DIAGRAM

3" Round / 19W / 3000K / 24°



Lumens: 1687.3 Lm
Watts: 19 W
LPW: 89.60 Lm/W
CCT: 3000K

UNIT: cd
C0/180, 22.6°
C30/210, 22.5°
C60/240, 22.6°
C90/270, 22.5°

Zonal Flux Diagram

τ	C0	C45	C90	C135	C180
10	4692	4157	3789	3903	4333
20	1363	1157	1005	1035	1168
30	307.5	269.5	220.7	207.2	240.7
40	14.08	14.54	14.73	14.24	13.66
50	4.167	4.152	4.343	4.449	4.585
60	2.910	3.014	3.282	3.277	3.334
70	1.667	1.879	2.086	2.094	1.894
80	0.4451	0.4716	0.6493	0.5151	0.4606
90	0.0311	0.0135	0.0317	0.0091	0.0223
100	0.0266	0.0450	0.0227	0.0453	0.0444
110	0.2036	0.2749	0.3032	0.3265	0.0979
120	1.077	1.306	1.511	1.500	0.5293
130	3.854	4.383	4.893	4.808	2.099
140	8.471	9.035	9.516	9.460	6.040
150	11.99	12.27	12.49	12.45	10.65
160	13.21	13.05	13.10	12.98	12.59
170	11.69	11.24	11.06	10.99	11.16
180	9.987	10.21	10.16	10.30	10.01
DEG	LUMINOUS INTENSITY:cd				

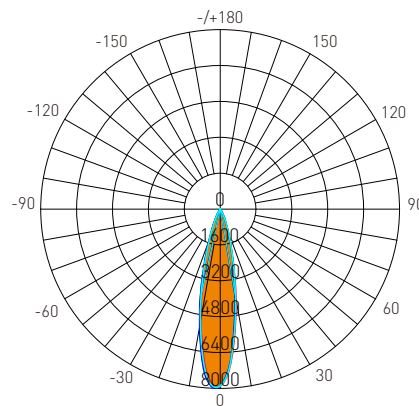
Zonal Lumens

τ	φ total
0-10	576.8
10-20	1287
20-30	1588
30-40	1652
40-50	1658
50-60	1661
60-70	1664
70-80	1665
80-90	1665
90-100	1665
100-110	1665
110-120	1666
120-130	1667
130-140	1671
140-150	1677
150-160	1683
160-170	1686
170-180	1687
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	180	638
80	744	1063
75	1112	1426
70	1414	1735
65	1711	1995
60	1689	1866
55	1756	1832
50	1881	1921
45	2314	2250

3" Square / 19W / 3000K / 24°



Lumens: 1609.3 Lm
Watts: 19 W
LPW: 85.64 Lm/W
CCT: 3000K

UNIT: cd
C0/180, 22.5°
C30/210, 22.5°
C60/240, 22.8°
C90/270, 22.5°

Zonal Flux Diagram

τ	C0	C45	C90	C135	C180
10	4048	3864	3957	4441	5003
20	990.0	983.0	1048	1205	1367
30	188.4	199.2	211.4	234.7	273.7
40	11.87	15.51	12.83	17.25	14.22
50	7.034	7.424	7.276	7.575	7.011
60	6.750	7.004	7.307	8.800	6.668
70	1.541	2.531	1.626	3.081	1.640
80	0.4825	0.4814	0.6059	0.4547	0.4580
90	0.0315	0.0225	0.0454	0.0226	0.0270
100	0.0270	0.0496	0.0316	0.0406	0.0540
110	0.2110	0.2483	0.2026	0.1987	0.0990
120	1.222	1.277	1.199	1.043	0.3785
130	4.310	4.431	4.330	3.869	1.564
140	8.860	8.974	8.882	8.419	5.014
150	11.92	11.94	11.92	11.68	9.680
160	12.72	12.49	12.62	12.55	12.14
170	10.70	10.46	10.70	10.82	11.03
180	9.356	9.628	9.623	9.696	9.401
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

τ	φ total
0-10	198.8
10-20	656.9
20-30	1051
30-40	1188
40-50	1209
50-60	1215
60-70	1219
70-80	1221
80-90	1221
90-100	1221
100-110	1221
110-120	1222
120-130	1224
130-140	1227
140-150	1230
150-160	1234
160-170	1236
170-180	1237
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	140	554
80	619	774
75	849	911
70	1004	1055
65	2826	2900
60	3007	3243
55	2626	2749
50	2437	2512
45	2299	2348