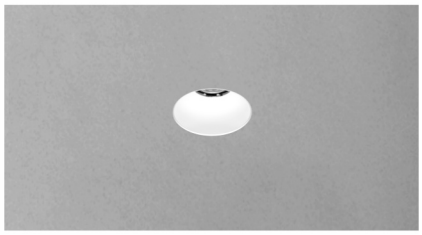
# COPA 2" MINI

CP2 SERIES | Deep Regress Downlights





Trimmed With Flange



Trimless in Sheetrock and plaster only



Trimless in Wood Ceiling

This family of 2" aperture recessed downlights are small yet mighty. Compact in size and high in performance, the collection offers an extensive selection of optics, trim styles, configurations, beam spreads, housings, and mounting options-providing the versatility needed for any project. With a wide array of customizable setups, it meets virtually every design requirement. A designer favorite, these downlights ensure exceptional lighting performance for any application.






## Feature

- 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

UL CERTIFIED SAFETY USICA E360437

QUICK SHIP

## 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<br>840LM<br>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 ± 5% base on different CCT, beam angle, trim shape and shade.

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## PRODUCT ORDERING GUIDE

Example: CP2R-TW-16W-DT1-9027-B30-TA-RW-RM

| CP | 2R | - | | - | 16W | - | DT1 | - | | | - | | - | TA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Product Family | Size and Shape | | Flange Type | | Wattage Selectable | | Dimming Options | | CRI Options | LED Color Options | | Beam Options | | Adjustable Holder |

**CP** QuickShip
COPA Downlight Series

**2R** QuickShip
2inch Round

**TW** QuickShip
Trimmed With White Flange

**TB** QuickShip
Trimmed With Black Flange

**TL** QuickShip
Trimless
⚠Install from Above. Service from Above.

**WC** QuickShip
Trimless in Wood Ceiling

**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

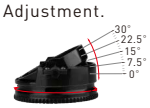
**40** QuickShip
4000K Cree COB

**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
16W LED Emergency Driver




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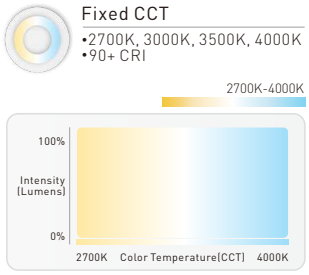


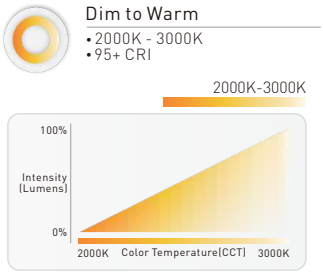
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## STRUCTURE

### 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 a great color consistency or Dim to Warm from 3000K to 2000K. |
| Light Engine Heatsink | Aluminum housing acting as the heat sink to maximize life. The temperature of all heatsinks are controlled at 60-70°C. |




### 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 30° and 50° beam angles, beam spreads are interchangeable which can be easily swapped out in the field without tools.

### Trim Finish / Shade

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


Round


Decorative Kit

### Installation

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

### Finish

Forged Aluminum

### Electrical

| | |
|---|---|
| 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 | Environment damp rated for ambient operating temperature of -20°C to +40°C (-4° 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

### Dimmer Compatible

0-10V Dimming (Dim to 1%)

| LEVITON DD710 | LUTRON NTSTV-DV | LEGRAND RH4FBL3 | LUTRON DVSTV | LEVITON IP710 |
|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ |

TRIAC Dimming

| LUTRON DV600P | LUTRON DVCL-153P | LEVITON 6683 | LUTRON DV603P | LEVITON 6672 | LUTRON S-603P | LUTRON LG-600P |
|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| LUTRON MSCL-DP153M | LUTRON TGCL-153DH | LUTRON SCL-153P | LUTRON CTCL-153P | LUTRON CT-603PG |
|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ |

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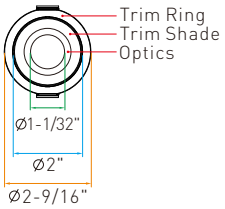


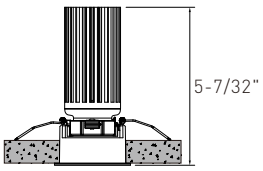
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## DIMENSIONS

### CP2R-TW / TB
2" Round Trim





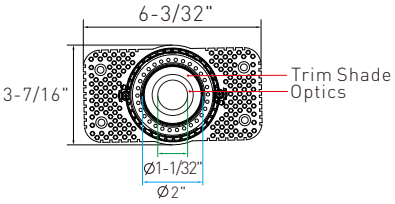



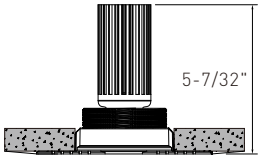



Opening Size Reference: Φ2-1/4"(Round Hole)

### CP2R-TL
2" Round Trimless





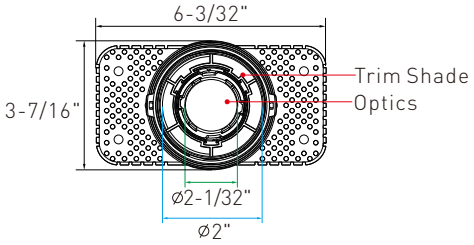






Opening Size Reference: Φ3-1/2"(Round Hole)
⚠Install from Above. Service from Above.

### CP2R-WC
2" Round Trimless in Wood Ceiling

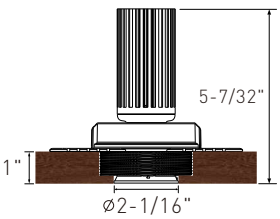


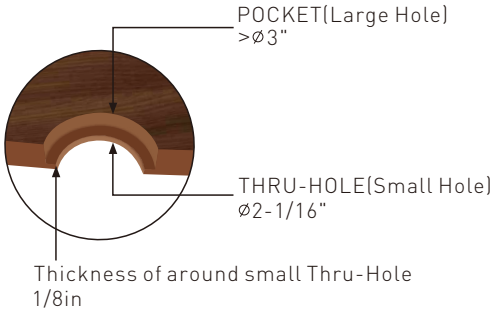














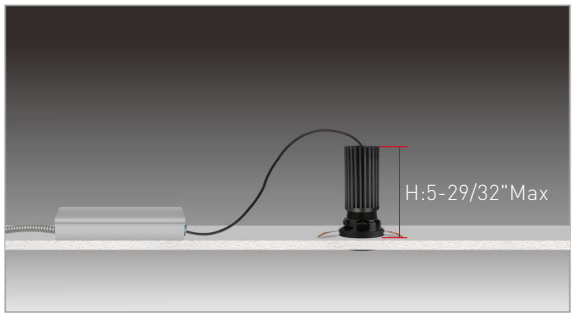
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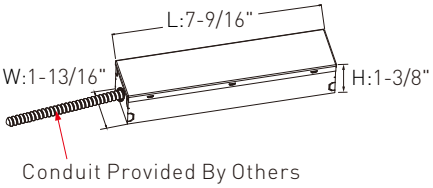
## MOUNTING

### Remodel(NON-IC Rated, Install From Below)

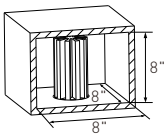



It can be installed in existing ceilings for remodel application.
Simple cut a hole in existing drywall ceilings.

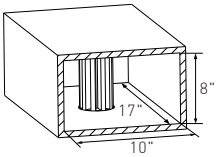
**Remote Driver Box**
1 Downlight per Remote Driver




**Mounting Space Required**
Up to 10W: Min 8"×8"×8"



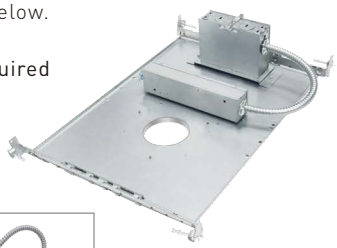

Up to 16W: Min 17"×10"×8"

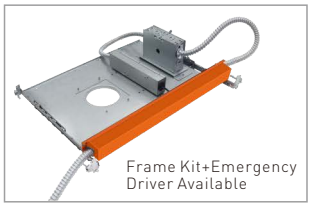


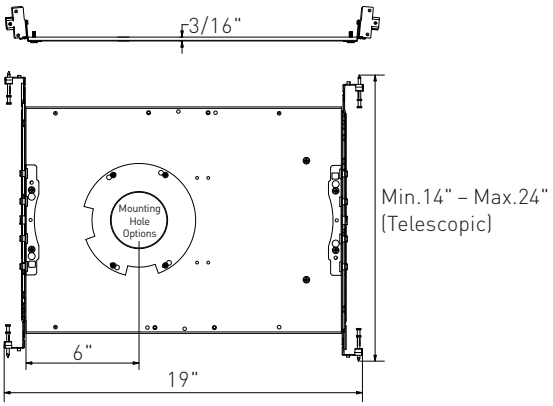

### New Construction-Frame Kit (NON-IC Rated, Install From Above)

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.

**Mounting Space Required**
Frame Kit (NON-IC)
Min 14"×19"×8"
Max 24"×19"×8"

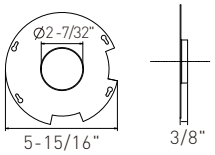




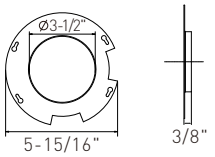




**Mounting Hole Options**

**2" Round Trim**




**2" Round Trimless**



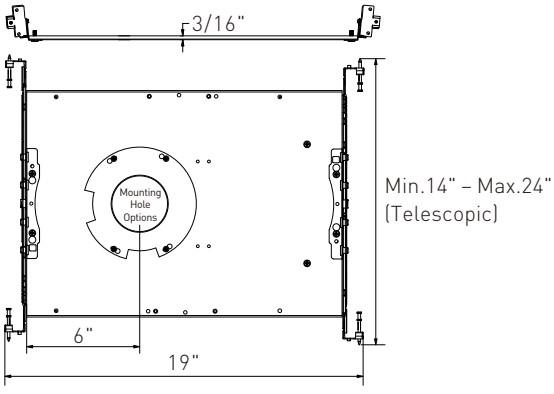

### New Construction-Housing Insulation Kit (IC Rated, Install From Above)

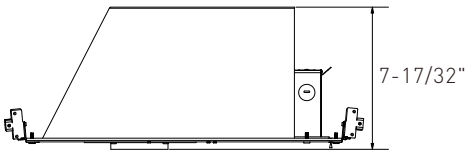
An IC-rated housing frame kit allows placement of 2inch LED downlight in direct contact with insulation.

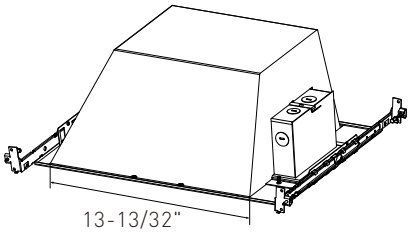
**Mounting Space Required**
Housing Insulation Kit (IC)
Min 14"×19"×7-5/16"
Max 24"×19"×7-5/16"





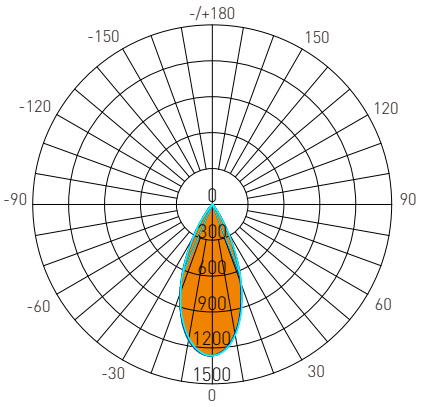

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## DISTRIBUTION DIAGRAM

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

| T | 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

| T | 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 |


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