

# PHILIPS LIGHTOLIER

## Downlighting

### CorePro LED Retrofit Downlight

Attractive, affordable, and easy to use 6" downlight



Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

Core value LED retrofit downlight for retrofit, new construction and remodel applications that installs in many existing residential and commercial applications.



E26

GU24

### Ordering guide

example: CP630K10

| Catalog Number  | Aperture | CRI | CCT    | Lms    | Connector whip |
|-----------------|----------|-----|--------|--------|----------------|
| <b>CP630K6</b>  | 6-inch   | 80  | 3000 K | 650lm  | E26            |
| <b>CP630K10</b> | 6-inch   | 80  | 3000 K | 1100lm | E26            |
| <b>CP6927K8</b> | 6-inch   | 90  | 2700 K | 800lm  | GU24           |

### Accessories

| Catalog Number | Description         |
|----------------|---------------------|
| <b>CPE26</b>   | E26 whip connector  |
| <b>CPGU24</b>  | GU24 whip connector |

### Features

- Reflector/Flange:** One piece self flange aluminum, .032" thick, (20ga.). Powder coated, non yellowing, white splay and flange.
- Lens:** PMMA 1.5mm thick. High transmittance lens allowing for smooth, diffused light pattern.
- Power supply:** Class 2 driver. Factory wired electronic LED driver (see Electrical section for specifications) Enclosed in a .032" thick (21 ga.) painted steel housing.
- LED board:** Utilizes Philips LEDs.
- Friction spring:** Stainless steel.
- Power connection:** E26 medium base whip connector (included) for retrofit.
- Frame in kit/housing:** Refer to appropriate frame in kit/housing specification sheets for complete information.
- Lifetime:** Expected lifetime 50,000 hours and backed by a 5-year warranty (see Philips.com/warranties for details).

### Electrical

**Electronic power supply:** RoHS compliant\* Class 2 power unit for use in a dry location. Unit tolerates sustained open circuit and short circuit output conditions without damage.

**Dimming:** All luminaires are intended for use with TRIAC type dimmers. Go to <http://www.lightolier.com/MKACatpdfs/LED-DIM.PDF> for the latest dimming switch capability information. 10%-100% dimming range.

| Lumen Output | Input Voltage | Input Frequency | Max. Input Current | Max. Input Power | Max THD | Power Factor | Min. Temp. Operating |
|--------------|---------------|-----------------|--------------------|------------------|---------|--------------|----------------------|
| 650 lm       | 120V          | 50/60Hz         | 0.07A              | 8W               | < 30%   | > .9         | -18° C               |
| 870 lm       | 120V          | 50/60Hz         | 0.00A              | 13W              | < 30%   | > .9         | -18° C               |
| 1110lm       | 120V          | 50/60Hz         | 0.11A              | 13W              | < 30%   | > .9         | -18° C               |

\* Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)] in electrical and electronic products. For products used in North America compliance to RoHS is voluntary and self-certified.

### Labels

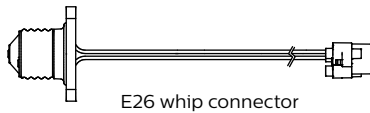
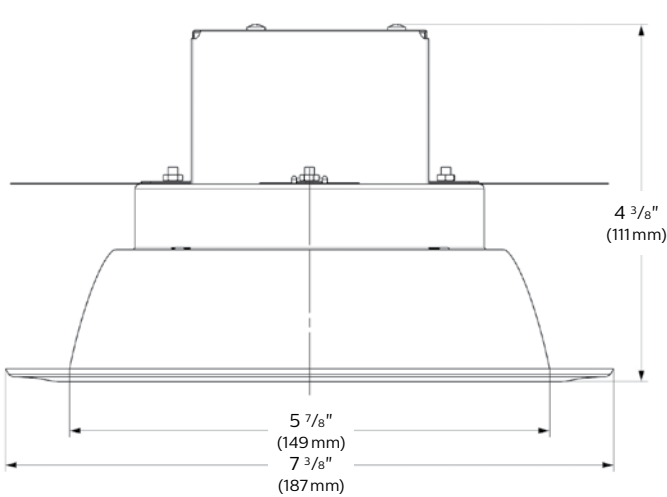
cULus listed for wet locations. Energy Star certified.



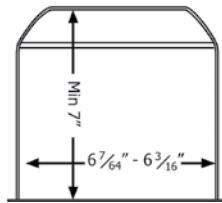
# CP6 CorePro LED Retrofit Downlight

Attractive, affordable, and easy to use 6" retrofit downlights

## E26 Dimensions



## E26 Compatibility\*



| Manufacturer       | Model                                |
|--------------------|--------------------------------------|
| Philips Lightolier | 1104IC                               |
| Philips Capri      | CR1NBQP, QL6NBQP, PR75ASIC, PRR75ICX |
| Halo               | H7ICAT                               |
| Lithonia           | L7X                                  |
| Juno               | IC22                                 |
| Progress           | P87-A1                               |

\* Any other luminaires meeting these dimensions as shown are also compatible.



**PR75ASICNB:** C Plus 6" IC/Airseal New Construction Housing

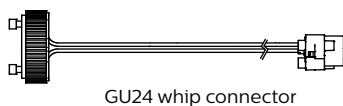
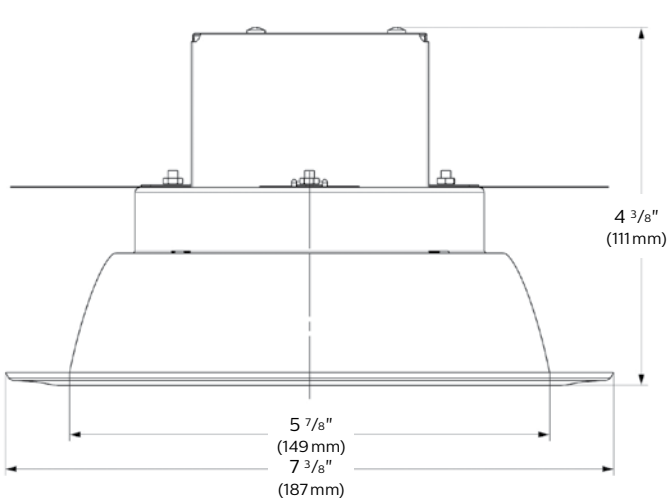


**1104IC:** Lytning 6.75" IC/Airseal New Construction Housing

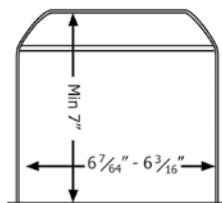


**CRR1NBQP:** C Plus 6" IC Remodeler Housing

## GU24 Dimensions



## GU24 Compatibility\*



\* Any other luminaires meeting these dimensions as shown are also compatible.



**P6GU:** C Plus 6" IC/Airseal New Construction Housing



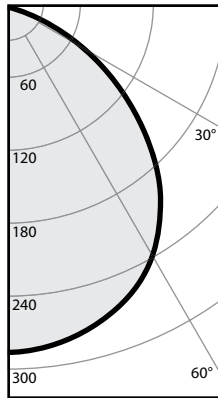
**P6RGU:** C Plus 6" IC Remodeler Housing

# CP6 CorePro LED Retrofit Downlight

Attractive, affordable, and easy to use 6" retrofit downlights

## CP630K6 • 8 W LED, 3000 K, 80CRI, 650lm, E26 connector

### Candela Curves



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 287     |        |
| 5     | 285     | 27     |
| 10    | 281     |        |
| 15    | 273     | 77     |
| 20    | 263     |        |
| 25    | 251     | 115    |
| 30    | 236     |        |
| 35    | 217     | 136    |
| 40    | 194     |        |
| 45    | 168     | 129    |
| 50    | 138     |        |
| 55    | 106     | 95     |
| 60    | 74      |        |
| 65    | 44      | 45     |
| 70    | 24      |        |
| 75    | 17      | 18     |
| 80    | 11      |        |
| 85    | 5       | 6      |
| 90    | 0       |        |

### Single unit data

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 11                               | 6.0'            |
| 6'                      | 8                                | 7.2'            |
| 7'                      | 6                                | 8.4'            |
| 8'                      | 4                                | 9.6'            |
| 9'                      | 4                                | 10.8'           |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 27.1                             | 0.36             |
| 6'                | 17.8                             | 0.24             |
| 7'                | 12.7                             | 0.17             |
| 8'                | 10.6                             | 0.14             |
| 9'                | 8.5                              | 0.11             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 110 | 106 | 103 | 100 | 104 | 98  | 100 | 95  | 96  | 92  | 87  |
|                   | 2   | 102 | 95  | 89  | 84  | 93  | 83  | 89  | 81  | 86  | 79  | 75  |
|                   | 3   | 94  | 84  | 77  | 71  | 83  | 71  | 80  | 70  | 77  | 68  | 65  |
|                   | 4   | 86  | 76  | 68  | 62  | 74  | 61  | 72  | 60  | 70  | 60  | 57  |
|                   | 5   | 80  | 68  | 60  | 54  | 67  | 54  | 65  | 53  | 63  | 53  | 50  |
|                   | 6   | 74  | 62  | 54  | 48  | 61  | 47  | 59  | 47  | 58  | 47  | 44  |
|                   | 7   | 69  | 56  | 48  | 42  | 56  | 42  | 54  | 42  | 53  | 42  | 40  |
|                   | 8   | 64  | 52  | 44  | 38  | 51  | 38  | 50  | 38  | 48  | 38  | 36  |
|                   | 9   | 60  | 47  | 40  | 34  | 47  | 34  | 46  | 34  | 45  | 34  | 32  |
|                   | 10  | 56  | 44  | 36  | 31  | 43  | 31  | 42  | 31  | 42  | 31  | 29  |

### Zonal lumens & percentages

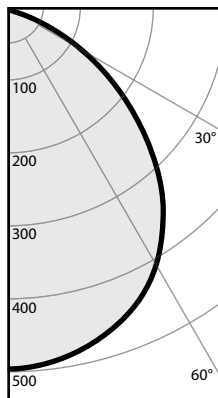
| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 220    | 33.9%      |
| 0-40 | 355    | 54.8%      |
| 0-60 | 579    | 89.4%      |
| 0-90 | 648    | 100.0%     |

### Report: LVE23088

|                            |        |                    |          |
|----------------------------|--------|--------------------|----------|
| Output lumens:             | 648lms | Efficacy:          | 79.4lm/w |
| Input Watts <sup>2</sup> : | 8.2W   | CCT <sup>3</sup> : | 3000K    |
| Spacing Criterion:         | 1.2    | CRI:               | >80      |

## CP630K10 • 13 W LED, 3000 K, 80 CRI, 1110lm, E26 connector

### Candela Curves



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 495     |        |
| 5     | 493     | 47     |
| 10    | 485     |        |
| 15    | 472     | 133    |
| 20    | 454     |        |
| 25    | 432     | 199    |
| 30    | 406     |        |
| 35    | 372     | 232    |
| 40    | 330     |        |
| 45    | 283     | 217    |
| 50    | 230     |        |
| 55    | 178     | 159    |
| 60    | 128     |        |
| 65    | 81      | 82     |
| 70    | 45      |        |
| 75    | 29      | 32     |
| 80    | 20      |        |
| 85    | 9       | 10     |
| 90    | 0       |        |

### Single unit data

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 20                               | 6.0'            |
| 6'                      | 14                               | 7.2'            |
| 7'                      | 10                               | 8.4'            |
| 8'                      | 8                                | 9.6'            |
| 9'                      | 6                                | 10.8'           |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 46.5                             | 0.57             |
| 6'                | 30.5                             | 0.37             |
| 7'                | 21.8                             | 0.27             |
| 8'                | 18.2                             | 0.22             |
| 9'                | 14.5                             | 0.18             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 110 | 106 | 103 | 99  | 104 | 98  | 100 | 95  | 96  | 92  | 87  |
|                   | 2   | 102 | 95  | 89  | 84  | 93  | 83  | 89  | 81  | 86  | 79  | 75  |
|                   | 3   | 94  | 84  | 77  | 71  | 83  | 71  | 80  | 69  | 77  | 68  | 65  |
|                   | 4   | 86  | 76  | 68  | 62  | 74  | 61  | 72  | 60  | 70  | 60  | 57  |
|                   | 5   | 80  | 68  | 60  | 54  | 67  | 54  | 65  | 53  | 63  | 52  | 50  |
|                   | 6   | 74  | 62  | 54  | 48  | 61  | 47  | 59  | 47  | 58  | 47  | 44  |
|                   | 7   | 69  | 56  | 48  | 42  | 56  | 42  | 54  | 42  | 53  | 42  | 40  |
|                   | 8   | 64  | 52  | 44  | 38  | 51  | 38  | 50  | 38  | 48  | 38  | 36  |
|                   | 9   | 60  | 48  | 40  | 35  | 47  | 34  | 46  | 34  | 45  | 34  | 32  |
|                   | 10  | 57  | 44  | 36  | 31  | 43  | 31  | 43  | 31  | 42  | 31  | 29  |

### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 379    | 34.1%      |
| 0-40 | 610    | 55.0%      |
| 0-60 | 987    | 88.9%      |
| 0-90 | 1110   | 100.0%     |

### Report: LVE23089

|                            |         |                    |          |
|----------------------------|---------|--------------------|----------|
| Output lumens:             | 1110lms | Efficacy:          | 86.9lm/w |
| Input Watts <sup>2</sup> : | 12.8W   | CCT <sup>3</sup> : | 3000K    |
| Spacing Criterion:         | 1.2     | CRI:               | >80      |

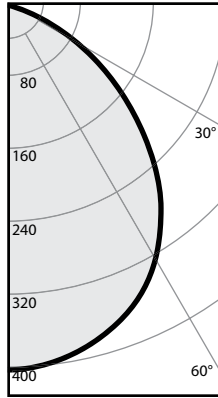
1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.  
 2. Wattage: controlled to within 5%  
 3. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSI C78.377-20 08: Specifications for the Chromaticity of Solid State Lighting Products.

# CP6 CorePro LED Retrofit Downlight

Attractive, affordable, and easy to use 6" retrofit downlights

## CP6927K8 • 13W LED, 2700 K, 90CRI, 870lm, GU24 connector

### Candela Curves



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 403     |        |
| 5     | 401     | 38     |
| 10    | 394     |        |
| 15    | 382     | 108    |
| 20    | 366     |        |
| 25    | 346     | 159    |
| 30    | 323     |        |
| 35    | 294     | 183    |
| 40    | 259     |        |
| 45    | 220     | 169    |
| 50    | 177     |        |
| 55    | 136     | 121    |
| 60    | 96      |        |
| 65    | 60      | 61     |
| 70    | 34      |        |
| 75    | 22      | 24     |
| 80    | 15      |        |
| 85    | 5       | 6      |
| 90    | 0       |        |

### Single unit data

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 16                               | 6.0'            |
| 6'                      | 11                               | 7.2'            |
| 7'                      | 8                                | 8.4'            |
| 8'                      | 6                                | 9.6'            |
| 9'                      | 5                                | 10.8'           |

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 36.6                             | 0.56             |
| 6'                | 24.0                             | 0.37             |
| 7'                | 17.1                             | 0.26             |
| 8'                | 14.3                             | 0.22             |
| 9'                | 11.4                             | 0.18             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 111 | 107 | 103 | 100 | 104 | 98  | 100 | 95  | 96  | 92  | 87  |
|                   | 2   | 102 | 95  | 89  | 84  | 93  | 83  | 90  | 81  | 86  | 79  | 76  |
|                   | 3   | 94  | 85  | 78  | 72  | 83  | 71  | 80  | 70  | 78  | 69  | 66  |
|                   | 4   | 87  | 76  | 68  | 62  | 75  | 62  | 72  | 61  | 70  | 60  | 57  |
|                   | 5   | 80  | 69  | 61  | 55  | 68  | 54  | 66  | 54  | 64  | 53  | 51  |
|                   | 6   | 75  | 62  | 54  | 48  | 61  | 48  | 60  | 48  | 58  | 47  | 45  |
|                   | 7   | 69  | 57  | 49  | 43  | 56  | 43  | 55  | 43  | 53  | 42  | 40  |
|                   | 8   | 65  | 52  | 44  | 39  | 51  | 39  | 50  | 38  | 49  | 38  | 36  |
|                   | 9   | 61  | 48  | 40  | 35  | 47  | 35  | 46  | 35  | 45  | 35  | 33  |
|                   | 10  | 57  | 44  | 37  | 32  | 44  | 32  | 43  | 32  | 42  | 32  | 30  |

### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 305    | 35.1%      |
| 0-40 | 488    | 56.1%      |
| 0-60 | 778    | 89.5%      |
| 0-90 | 870    | 100.0%     |

### Report: LVC2141032

|                            |         |                    |           |
|----------------------------|---------|--------------------|-----------|
| Output lumens:             | 870 lms | Efficacy:          | 68.5 lm/w |
| Input Watts <sup>2</sup> : | 12.7W   | CCT <sup>3</sup> : | 2700 K    |
| Spacing Criterion:         | 1.2     | CRI:               | >90       |

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSLG C78.377-20 08: Specifications for the Chromaticity of Solid State Lighting Products.

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Philips Lighting, North America Corporation  
 200 Franklin Square Drive, Somerset, NJ 08873  
 Tel. 855-486-2216

Imported by: Philips Lighting,  
 A division of Philips Electronics Ltd.  
 281 Hillmount Rd, Markham, ON, Canada L6C 2S3  
 Tel. 800-668-9008