## **PHILIPS** LIGHTOLIER

## Downlighting

## CorePro LED

Attractive, affordable, and easy to install 5" downlight



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

## **Ordering guide**

Catalog Number	Aperture CRI CCT Lumens		Lumens	System Watts (Max)	Efficacy (lm/W)	Voltage	
CP5RB08830W	5-inch	80	3000 K	950lm	13	73	120
CP5RB08930W	5-inch	90	3000 K	900lm	13	69	120
CP5RB08840W	5-inch	80	4000K	1000lm	13	77	120

example: CP5RB07830W

Qty:

## **Features**

- 1. **Reflector/Flange:** One piece self flange cast aluminum, powder coated, non yellowing, white baffle and flange
- 2. Lens: High transmittance lens allowing for smooth, diffused light pattern.
- 3. Power supply: Class 2 driver. Factory wired electronic LED driver (see Electrical section for specifications).
- 4. LED board: Light emitted source.
- 5. Friction spring: Stainless steel.
- 6. Power connection: Trim features quick connect plug installed as standard installation into CP5RN and CP5RR housings with mating connector. Trim ships with a medium base socket adapter whip for installation into 5" incandescent housings with medium base sockets.
- 7. 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 and damp locations. Complies with FCC.

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	Input	Input		Max. Input Max. Input		Power	Min. Temp.	
Output	Voltage	Frequency		Current Power		Factor	Operating	
950 lm	120 V	50/60Hz	0.10A	13W	< 30%	9.	-20° C	

Performance data based on 80 CRI 3000K.

\* 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.

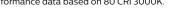
Project:

Location Cat.No: Type: Lamps:

Notes

Title 24 Certified to meet high efficiency requirements.

Input	Input	Max. Input	Max. Input	Max	Power	Min. Temp.	
Voltage	Frequency	Current	Power	THD	Factor	Operating	
120 V	50/60Hz	0.10A	13W	< 30%	9. <		









Title 24

## **CP5** CorePro LED Downlight

Attractive, affordable, and easy to install 5" downlight

### CP5RN: 5" IC/Airseal frame-in kit housing

#### Housing

Constructed of formed aluminum. For use in direct contact with thermal insulation. Adjusts vertically in plaster frame to accommodate ceilings 1/2" to 1-1/2" thick. Ceiling opening 5-1/2".

#### **Electrical Connection**

LED quick-connect adapter.

#### Junction Box

Galvanized steel with two snap-on covers and grounding pigtail. Knockouts for 1/2" & 3/4" conduit and Romex knockouts with strain relief.

#### **Bar Hangers**

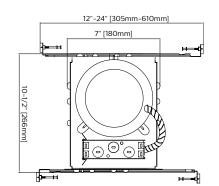
Pre-installed pre-nailed style bar hangers telescope from 12" to 24". Vertical design of interlocking bar hangers prevents sagging even at full 24" extension. Style bar hangers may be used on either long or short axis of housing.

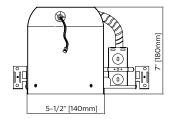
#### IC frame-in Kit

Housing is cULus Listed for direct contact with thermal insulation cULus Listed for Damp Locations and Through Branch Wiring, 4 in/4 out.

#### AirSeal

Fixture is AirSeal rated according to ASTM E283 to no more than 2.0 cubic feet of air per minute at 75 pascals. Fixture meets Washington State Energy Code and Energy Conservation Code.





### CP5RR: 5" IC/Airseal Remodeler Housing

#### Housing

Constructed of formed aluminum. Adjusts vertically in plaster frame to accommodate ceilings 1/2" to 1-1/4" thick. Housing can be pulled through plaster frame for access to junction box. Ceiling opening of 5-3/8".

#### **Electrical Connection**

LED quick-connect adapter.

#### Junction Box

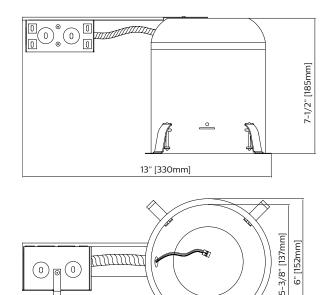
Galvanized steel with two snap-on covers and grounding pigtail. Knockouts for 1/2" & 3/4" conduit and Romex knockouts with strain relief.

#### IC Frame-in Kit

Housing is cULus Listed for direct contact with thermal insulation cULus Listed for Damp Locations and Through Branch Wiring, 4 in/4 out.

#### AirSeal

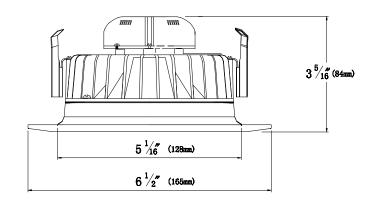
Fixture is AirSeal rated according to ASTM E283 to no more than 2.0 cubic feet of air per minute at 75 pascals. Fixture meets Washington State Energy Code and Energy Conservation Code.



# **CP5** CorePro LED Downlight

Attractive, affordable, and easy to install 5" downlight

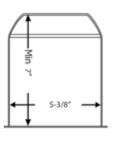
### Dimensions



## E26 Compatibility\*

Manufacturer	Model
Philips	CP5RN CP5RR 1004IC 1004ICR CR5QP CRR5QP
Halo	H5ICAT H5RICAT H5T H5RT
Juno	IC20NW IC20N
Lithonia	L5 L5R

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





The 5"unit is shown with a standard (E26) adapter to fit medium base sockets

**CP5RN**: IC c/w LED Connector New Construction Housing



**CP5RR:** IC c/w LED Connector Remodeler Housing



# **CP5** CorePro LED Downlight

402

398

390

Attractive, affordable, and easy to install 5" downlight

38

107

158 184

183

152 96

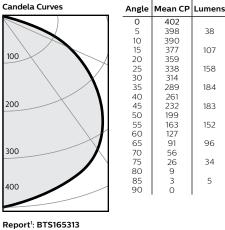
34 5

77.1lm/w

3000 K

>80

#### **CP5RB08830W**



12.4 W

1.2

CCT<sup>3</sup> CRI

0 5

10

#### 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

drop to 50% of maximum.

#### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	39.6	0.55
6'	26.0	0.36
7'	18.5	0.26
8'	15.5	0.21
9'	12.4	0.17

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

#### Coefficients of utilization

Ceil	ing	80%			70%		50%		30%		0%	
Wall		70	50	30	10	50	10	50	10	50	10	0
RCR Zonal cavity method - Effective					/e floo	or ref	lecta	nce =	20%			
	0	119	119	119	119	116	116	111	111	106	106	100
-	1	110	106	102	99	104	97	100	94	96	91	87
Ratio	2	101	94	87	82	92	81	88	79	85	78	74
Ва	3	93	83	75	69	81	69	78	68	76	66	63
₹	4	85	74	66	59	73	59	70	58	68	57	55
avi	5	79	66	58	52	65	51	63	51	61	50	48
ũ	6	73	60	51	45	59	45	57	45	56	44	42
ЪС	7	67	55	46	40	54	40	52	40	51	40	37
Room Cavity	8	63	50	42	36	49	36	48	36	47	36	33
	9	59	46	38	33	45	32	44	32	43	32	30
	10	55	42	35	30	42	30	41	29	40	29	27

#### Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	303	31.7%
0-40	486	50.9%
0-60	821	85.9%
0-90	956	100.0%

Adjustment factors

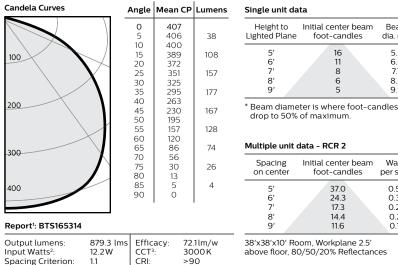
Color temperature (CCT) 4000K = 106%

## **CP5RB08930W**

Output lumens:

Spacing Criterion:

Input Watts<sup>2</sup>



Beam

dia. (ft)

5.5

6.6 7.7

8.8

99

Watts

per sq.ft.

0.54

0.35

0.25

0.21 0.17

Coefficients of utilization												
Ceil	ing		80	0%		70	0%	50	0%	30	0%	0%
Wal	ι	70	50	30	10	50	10	50	10	50	10	0
RCR Zonal cavity method				d - Ef	fectiv	/e flo	or ref	lecta	nce =	20%		
	0	119	119	119	119	116	116	111	111	106	106	100
~	1	111	106	103	100	104	98	100	95	96	92	87
Room Cavity Ratio	2	102	95	89	84	93	83	89	81	86	79	75
Ř	3	94	84	77	71	83	71	80	69	77	68	65
τζ	4	86	75	67	61	74	61	72	60	69	59	57
avi	5	80	68	60	54	67	53	65	53	63	52	50
Ŭ	6	74	62	53	47	61	47	59	47	57	46	44
μ	7	69	56	48	42	55	42	54	42	53	42	39
Ã	8	64	52	44	38	51	38	50	38	48	37	35
-	9	60	47	40	34	47	34	46	34	45	34	32
	10	57	44	36	31	43	31	42	31	42	31	29

#### Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	303	34.5%
0-40	480	54.6%
0-60	775	88.2%
0-90	879	100.0%

1. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products. 2. Wattage: controlled to within 5%

3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

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