

LED

rila

# Luminaire Flat Downlight



### **Product offering**

Catalog Code	Description	UPC Code	Qty. per SKU	Case Qty. (SKU/case)	Pallet Qty (SKU/pallet)
PILADISC4R4CCT	Disc light 4" Round 700lm 80 CCT 120V	046677600020	4	6	144
PILADISC6R4CCT	Disc light 6" Round 900lm 80 CCT 120V	046677600037	4	6	96
PILADISC4R30K	Disc light 4" Round 700lm 80 30K 120V	046677600044	4	6	144
PILADISC6R30K	Disc light 6" Round 900lm 80 30K 120V	046677600051	4	6	96

### **Technical specifications**

Nominal power	4": 11W; 6": 13.5W
Nominal lumens	4": 700lm; 6": 900lm
Input voltage	120VAC
сст	Dipswitch CCT: 4": 2700K, 3000K, 4000K, 5000K 6": 2700K, 3000K, 4000K, 5000K Static CCT: 4": 3000K, 6": 3000K
CRI	80
Power connection	Locking power connection is used to connect J-box and fixture. Standard length of the connection is 11-4/5" (300mm). Extension cable available as accessory.
Material and finishing	Flange: aluminum alloy, powder coated in white (RAL9003) Lens: hard acrylic material with diffused light pattern.
Weights	4": 0.99lbs.; 6": 1.35lbs.
Ceiling cutout	4": 4 1/3" (110mm) diameter 6": 6 2/9" (158mm) diameter

Electronic power supply	RoHS compliant. Isolated driver, grounding. Class 2 power unit. Remote power supply can only accommodate one LED module and cannot be shared with other LED module. Fixture can be through wired.					
Dimming	Compatible for ELV/TRIAC (120V) dimmers. Philips SR150LED120 TRIAC (100-1%) Leviton IPI06 TRIAC (100%-1%) Leviton 6615P ELV (100%-5%) Lutron DVELV-300P ELV(100%-1%) Lutron NLV1000 TRIAC (100-1%) Lutron PD-6WCL Wireless (100-1%)					
Safety class	UL certified					
IP rating	UL03 – Wet location					
Compliance	cULus listed (UL 1598) for wet locations (covered ceiling only). IC rated for direct contact with thermal insulation. AirSeal for minimal air leakage.					
Warranty	3-year limited warranty					

\* 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.



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#### Dimensions

Flat Downlight 4"



Flat Downlight 6"







#### Components

- 1. Electrical Box with knockouts
- 2. Mounting keyhole
- 3. Remodel NEC\* clip
- 4. 11.8"(0.3m) cord
- 5. Locking power connector
- 6. Integrated LED Luminaire
- 7. Spring clip for easy mounting
- 8. CCT selector if applicable

\* National Electric Code

#### Frame plate

Compatible with	Part Number(s)	
New construction plate	FDRN	
Extension cable	FD06C, FD20C	







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### **Photometry**

## 4-inch, 700lm, 80 CRI, 120V-3000K

75

0



Zonal s	summary		Single unit data					
Zone	Lumens %l	uminaire	Height to	n Beam				
0-30	198	28.3%	lighted plane	i loot candies	ulameter			
0-40	320	45.7%	5'	10	6.0'			
0-60	555	79.3%	6'	7	7.2'			
0-90	700	100.0%	7'	5	8.4'			
			8'	4	9.6'			
			9'	3	10.8'			
Angle	Mean CP	Lumens	* De em alieme					
0	259		drop to 50%	6 of maximum	canules			
5	258	24		o or maximum.				
10	254	27						
15	246	69						
20	237		Multiple unit	data - RCR 2				
25	225	104	Spacing	Initial center beam	Watte			
30	212		opacing	foot-condloc	nored			
35	196	123	oncenter	TOOL-Canules	per sy.			
40	179	.20	5'	28.0	0.49			
45	161	125	6'	19.0	0.32			
50	14.3	.20	7'	13.0	0.23			
55	124	111	8'	11.0	0.19			
60	104		9'	9.0	0.15			
65	84	83						

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 63.6lm/w

Report<sup>2</sup>: 9290022700

#### Coefficients of utilization

(ft)\*

ft

Ce	Ceiling 80%		70%		50%		30%		0%			
Wall		70	50	30	10	50	10	50	10	50	10	0
RC	R	Zon	Zonal cavity method - Effective floor reflectance = 20%									
	0	119	119	119	119	116	116	111	111	106	106	100
0	1	109	104	99	95	101	94	97	91	93	88	83
ţ	2	99	90	83	77	88	76	85	75	81	73	69
ñ	3	90	79	71	64	77	63	74	62	72	61	58
Ę	4	82	70	61	54	69	54	66	53	64	52	49
as	5	75	62	53	47	61	46	59	46	57	45	43
Ő	6	70	56	47	41	55	40	53	40	52	40	37
БО	7	65	51	42	36	50	36	48	35	47	35	33
å	8	60	46	38	32	46	32	44	32	43	31	29
	9	56	43	34	29	42	29	41	28	40	28	26
	10	53	39	31	26	39	26	38	26	37	26	24

### 6-inch, 900lm, 80 CRI, 120V-3000K



ummary		Single unit data						
Lumens %Luminaire		Height to lighted plane	Beam diameter (ft)*					
251	27.9%		40					
408	45.3%	5'	13	6.0				
/12	/9.1%	6.	9	7.2				
900	100.0%	7'	7	8.4'				
		8'	5	9.6'				
	I.	9'	4	10.8'				
Mean CP	Lumens	* De em dieme						
220		Beam diameter is where root-candles						
330	20	urop to 50%						
221	20							
321								
313	80	Multiple unit	data - RCR 2					
301	100							
287	122	Spacing	Initial center beam	Watts				
270	147	on center	foot-candles	per sq. ft.				
251	14/	E'	26.0	0.59				
230		0	30.0	0.56				
208	121	6	24.0	0.38				
185	1	7	17.0	0.27				
160				0.00				
105	68	8'	14.0	0.23				
135	68	8' 9'	14.0	0.23				
135	68 40	8' 9'	14.0 11.0	0.23				

above floor, 80/50/20% Reflectances

## Efficacy: 69.2 lm/w Report<sup>2</sup>: 9290022706

Coefficients of utilization

Ceiling		80%				70%		50%		30%		0%
Wall		70	50	30	10	50	10	50	10	50	10	0
RCR		Zon	Zonal cavity method - Effective floor reflectance = 20%									
	0	119	119	119	119	116	116	111	111	106	106	100
ity Ratio	1	109	104	99	95	101	94	97	91	93	88	83
	2	99	90	83	77	88	76	85	75	81	73	69
	3	90	79	71	64	77	63	74	62	72	61	58
	4	82	70	61	54	69	54	66	53	64	52	49
av	5	75	62	53	47	61	46	59	46	57	45	43
õ	6	70	56	47	41	55	40	53	40	52	40	37
E O	7	65	51	42	36	50	36	48	35	47	35	33
å	8	60	46	38	32	46	32	44	32	43	31	29
	9	56	43	34	29	42	29	41	28	40	28	26
10		53	39	31	26	39	26	38	26	37	26	24

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. 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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