

Retrofit Downlight



Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Product offering

Catalog Code	Description	UPC Code	Qty. per SKU	Case Qty. (SKU/case)	Pallet Qty (SKU/pallet)
PILARETR4R30K	PILA RFit 4" Rd 600lm 80 30K 120V DIM 6-Pack	046677600068	6	4	48
PILARETR56R30K	PILA RFit 5/6" Rd 650lm 80 30K 120V DIM 6-Pack	046677600075	6	4	32

Technical specifications

Nominal power	4": 7.5W; 6": 7.5W	
Nominal lumens	4": 600lm; 6": 650lm	
Input voltage	120VAC	
сст	4": 3000K 6": 3000K	
CRI	80	
Power connection	Trim features quick connect plug installed as standard. Trim ships with a medium base socket adapter whip for installation into incandescent housings with medium base sockets.	
Material and finishing	Flange: One piece self flange spun aluminum. White painted. Lens: High transmittance lens allowing for smooth, comfortable light pattern.	
Weights	4": 0.45lbs.; 6": 0.72lbs.	
Friction blades/ Torsion springs	Stainless steel	

Electronic power supply	RoHS compliant.* Class 2 power unit for use in dry and damp locations.
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 classified
IP rating	UL02 – Damp location
Compliance	cULus listed (UL 1598) for damp locations (covered ceiling only). IC rated for direct contact with thermal insulation. AirSeal for minimal air leakage.
Warranty	3-year limited warranty





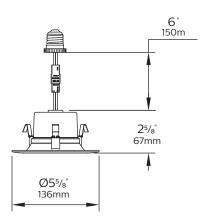


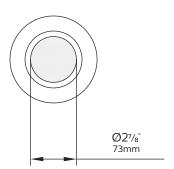
^{*} Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)] in electrical and electronic products. For products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



Dimensions

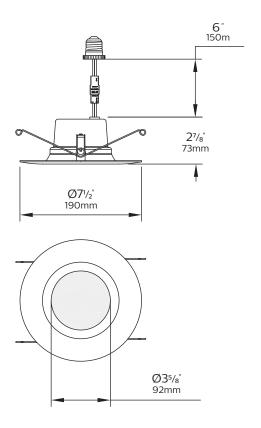
Retrofit Downlight 4"







Retrofit Downlight 5/6"



Components

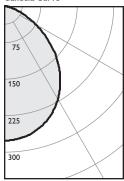
- 1. E26 cap
- 2. Flexible wiring UL connector
- 3. Friction blades or torsion springs for mounting
- 4. LED retrofit kit



Photometry

4-inch, 600lm, 80 CRI, 120V-3000K

Candela Curve



Fixture: PILARETR4R30K

Output lumens: 600 lms Input watts: 7.5 W CRI: 80 min CCT¹: 3000K Spacing Crit.: 1.2

Zonal summary

Zone	Lumens	%Luminaire
0-30	208	34.7%
0-40	331	55.2%
0-60	534	89.0%
0-90	600	100.0%

Angle	Mean CP	Lumens
0	274	
5	272	26
10	268	
15	260	73
20	250	
25	236	108
30	218	
35	196	124
40	175	
45	151	116
50	124	
55	97	87
60	71	
65	46	48
70	29	
75	12	15
80	5	
85	1	2
90	0	

Single unit data

	Initial center beam foot-candles	Beam diameter (ft)*
5'	11	6.0'
6'	8	7.2'
7'	6	8.4'
8'	4	9.6'
9'	3	10.8'

^{*} Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

5' 25.0 0.33 6' 17.0 0.22	
7' 12.0 0.16 8' 10.0 0.13 9' 8.0 0.10	

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

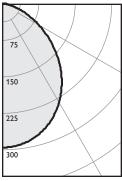
Efficacy: 80.0 lm/w Report²: 9290022892

Coefficients of utilization

	80)%		70	1%	50	1%	30)%	0%
70	50	30	10	50	10	50	10	50	10	0
Zon	al cav	ity m	ethod	l – Eff	ectiv	e floo	r refl	ectan	ce = :	20%
119	119	119	119	116	116	111	111	106	106	100
111	107	103	100	101	98	100	95	96	92	88
102	95	89	84	88	83	90	81	86	79	76
94	85	77	72	76	71	80	70	78	69	66
87	76	68	62	67	61	72	61	70	60	57
80	68	60	54	60	54	65	53	63	53	50
74	62	54	48	53	48	59	47	58	47	45
69	57	48	43	48	43	54	42	53	42	40
64	52	44	38	44	38	50	38	49	38	36
60	48	40	35	40	35	46	34	45	34	32
57	44	37	32	36	32	43	31	42	31	30
	Zon 119 111 102 94 87 80 74 69 64 60	70 50 Zonal cav 119 119 111 107 102 95 94 85 87 76 80 68 74 62 69 57 64 52 60 48	Zonal cavity m 119 119 119 111 107 103 102 95 89 94 85 77 87 76 68 80 68 60 74 62 54 69 57 48 64 52 44 60 48 40	70 50 30 10 Zonal cavity method 119 119 119 110 111 107 103 100 102 95 89 84 94 85 77 72 87 76 68 62 80 68 60 54 74 62 54 48 69 57 48 43 64 52 44 38 60 48 40 35	70 50 30 10 50 Zonal cavity method - Eff 119 119 119 110 110 111 107 103 100 101 102 95 89 84 88 94 85 77 72 76 87 76 68 62 67 80 68 60 54 60 74 62 54 48 53 69 57 48 43 48 64 52 44 38 44 60 48 40 35 40	70 50 30 10 50 10 Zonal cavity method - Effective 119 119 119 119 116 116 111 107 103 100 101 98 102 95 89 84 88 83 94 85 77 72 76 71 87 76 68 62 67 61 80 68 60 54 60 54 74 62 54 48 53 48 69 57 48 43 48 43 60 48 40 35 40 35	70 50 30 10 50 10 50 Zonal cavity method - Effective floo 119 119 119 110 116 116 111 111 107 103 100 101 98 100 102 95 89 84 88 83 90 94 85 77 72 76 71 80 87 76 68 62 67 61 72 80 68 60 54 60 54 65 74 62 54 48 53 48 59 69 57 48 43 48 43 54 64 52 44 38 44 38 54 60 48 40 35 40 35 46	70 50 30 10 50 10 50 10 Zonal cavity method - Effective floor refleting for the first state of the first st	70 50 30 10 50 10 50 10 50 50 50 20 20 20 20 20 20 20 20 20 20 20 20 20	70 50 30 10 50 10 50 10 50 10 50 10 Zonal cavity method - Effective floor reflectance =: 119 119 119 110 110 116 116 111 111 106 106 111 107 103 100 101 98 100 95 96 99 102 95 89 84 88 83 90 81 86 79 94 85 77 72 76 71 80 70 78 69 87 76 68 62 67 61 72 61 70 68 80 68 60 54 60 54 65 53 63 53 74 62 54 48 53 48 59 47 58 47 69 57 48 43 48 43 54 42 53 42 64 52 44 38 44 38 50 38 49 38 60 48 40 35 40 35 46 34 45 34

5/6-inch, 650lm, 80 CRI, 120V-3000K

Candela Curve



Fixture: PILARETR56R30K

Output lumens: 650 lms Input watts: 7.5 W CRI: 80 min CCT¹: 3000K Spacing Crit.: 1.2

Zonal summary

Zone	Lumens	%Luminaire
0-30	220	33.8%
0-40	351	54.0%
0-60	568	87.4%
0-90	650	100.0%

	ı	1
Angle	Mean CP	Lumen
0	294	
5	292	28
10	287	
15	277	78
20	265	
25	247	115
30	230	
35	209	130
40	185	
45	159	123
50	132	
55	106	94
60	81	
65	56	58
70	37	
75	19	22
80	8	
85	2	3
90	0	

Single unit dat

	Initial center beam foot-candles	Beam diameter (ft)*
5'	12	6.0'
6'	8	7.2'
7'	6	8.4'
8'	5	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'	27.0	0.33
	6'	18.0	0.22
	7'	13.0	0.16
	8'	11.0	0.13
	9'	9.0	0.10

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

Efficacy: 86.7lm/w Report²: 9290022893

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	110	106	103	99	104	98	100	95	96	92	87
	2	102	94	88	83	92	82	89	80	86	79	75
	3	93	84	77	71	82	70	79	69	77	68	65
	4	86	75	67	61	74	61	71	60	69	59	56
	5	80	68	59	53	67	53	65	52	63	52	49
	6	74	61	53	47	60	47	59	46	57	46	44
	7	69	56	48	42	55	42	54	41	52	41	39
	8	64	51	43	38	51	38	49	37	48	37	35
	9	60	47	39	34	47	34	45	34	44	34	32
	10	56	44	36	31	43	31	42	31	41	31	29

^{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.