

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P741888

Luminaire Tested: LD4D10D010-EU4DR150210IC9027-4LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741888  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D10D010-EU4DR150210IC9027-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 887.8 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
CIE Type: Direct

Input Watts (W): 11.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

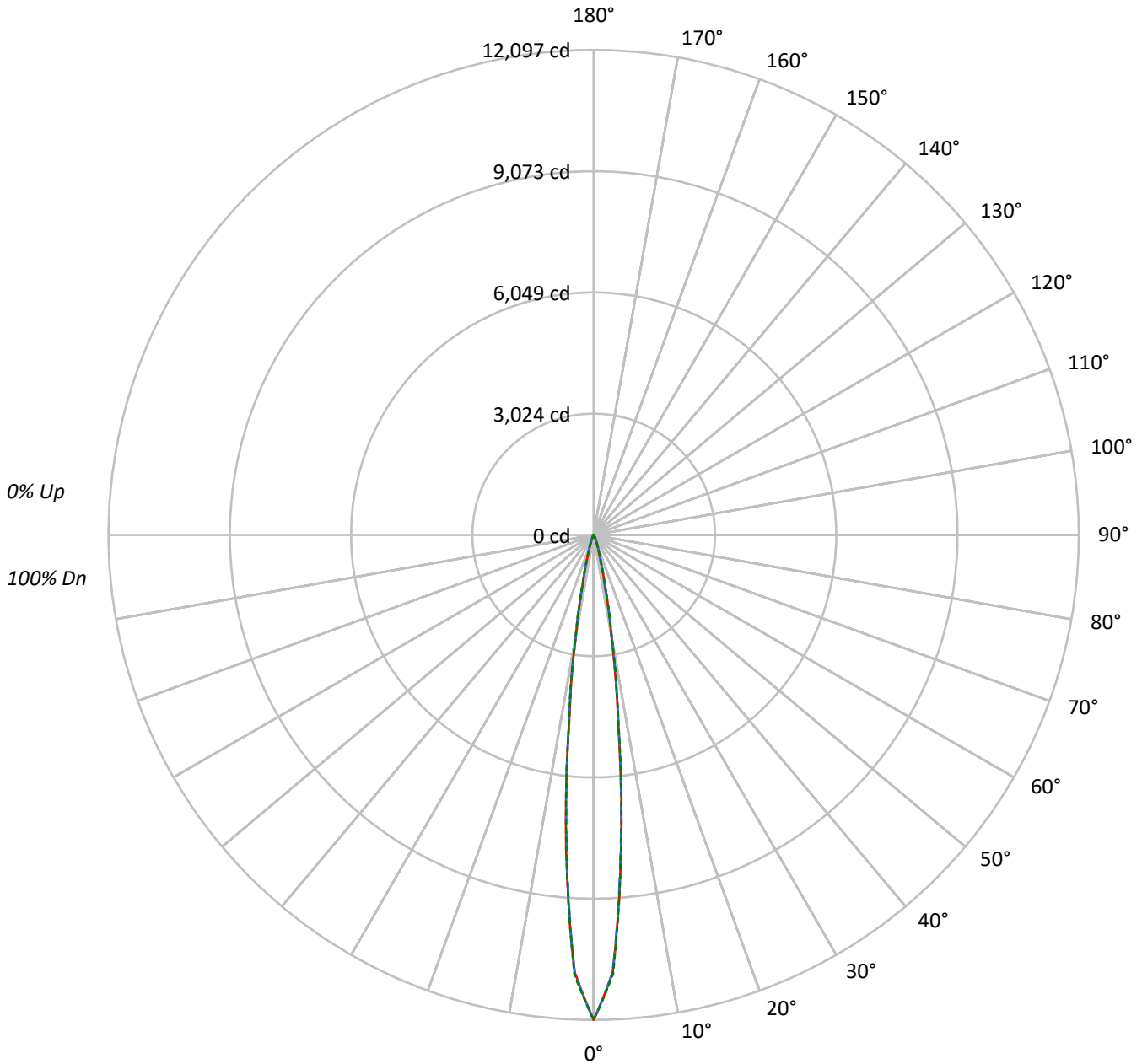


Downlight



TEST NUMBER: P741888  
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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	99	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1361154	1361154	1361154
5°	799880	789524	795764
10°	238727	240398	244083
15°	59384	60539	58672
20°	17764	20570	18140
25°	6263	7977	6341
30°	2299	3033	2336
35°	1155	1300	1118
40°	724	802	724
45°	539	574	539
50°	424	424	424
55°	355	355	355
60°	288	288	288
65°	221	221	221
70°	190	190	190
75°	113	113	151
80°	79	79	79
85°	42	42	42

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 574 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	575.8	64.9
10°-20°	236.9	26.7
20°-30°	47.0	5.3
30°-40°	11.7	1.3
40°-50°	6.2	0.7
50°-60°	4.6	0.5
60°-70°	3.3	0.4
70°-80°	1.8	0.2
80°-90°	0.5	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	859.7	96.8
0°-40°	871.5	98.2
0°-60°	882.2	99.4
0°-90°	887.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	887.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12097	12097	12097	12097	12097	
5°	7871	7790	7769	7822	7830	575
15°	684	696	697	685	676	234
25°	80	91	102	91	81	42
35°	16	17	18	17	15	11
45°	8	8	8	8	8	6
55°	5	5	5	5	5	5
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12097.0	12097.0	12097.0	12097.0	12097.0
2.5°	10912.0	10921.2	10924.8	10935.6	10975.5
5°	7870.6	7789.7	7768.7	7822.5	7830.1
7.5°	4662.2	4678.6	4738.5	4751.9	4703.7
10°	2558.5	2579.5	2576.4	2594.9	2615.9
12.5°	1308.4	1292.1	1286.9	1307.9	1278.7
15°	683.7	696.5	697.0	684.7	675.5
17.5°	367.7	382.5	407.1	387.2	356.4
20°	217.1	230.4	251.4	235.1	221.7
22.5°	134.2	144.9	159.8	147.0	136.2
25°	80.4	91.2	102.4	90.6	81.4
27.5°	47.6	56.8	64.0	56.3	47.1
30°	30.7	35.8	40.5	35.3	31.2
32.5°	21.5	23.6	25.6	23.6	21.5
35°	15.9	16.9	17.9	16.9	15.4
37.5°	12.3	13.3	13.8	12.8	11.8
40°	10.2	10.8	11.3	10.8	10.2
42.5°	8.7	9.2	9.2	9.2	8.7
45°	7.7	7.7	8.2	7.7	7.7
47.5°	6.7	6.7	7.2	6.7	6.7
50°	6.1	6.1	6.1	6.1	6.1
52.5°	5.6	5.6	5.6	5.6	5.6
55°	5.1	5.1	5.1	5.1	5.1
57.5°	4.6	4.6	4.6	4.6	4.6
60°	4.1	4.1	4.1	4.1	4.1
62.5°	3.6	3.6	3.6	3.6	3.6
65°	3.1	3.1	3.1	3.1	3.1
67.5°	3.1	3.1	3.1	3.1	3.1
70°	2.6	2.6	2.6	2.6	2.6
72.5°	2.0	2.0	2.0	2.0	2.0
75°	1.5	1.5	1.5	1.5	2.0
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)