

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: P745749

Luminaire Tested: LD4D30D010-EU4DR1515309027-4LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745749  
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: LD4D30D010-EU4DR1515309027-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2750.6 lumens  
Efficiency: N/A  
Efficacy: 94.8 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): 29  
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

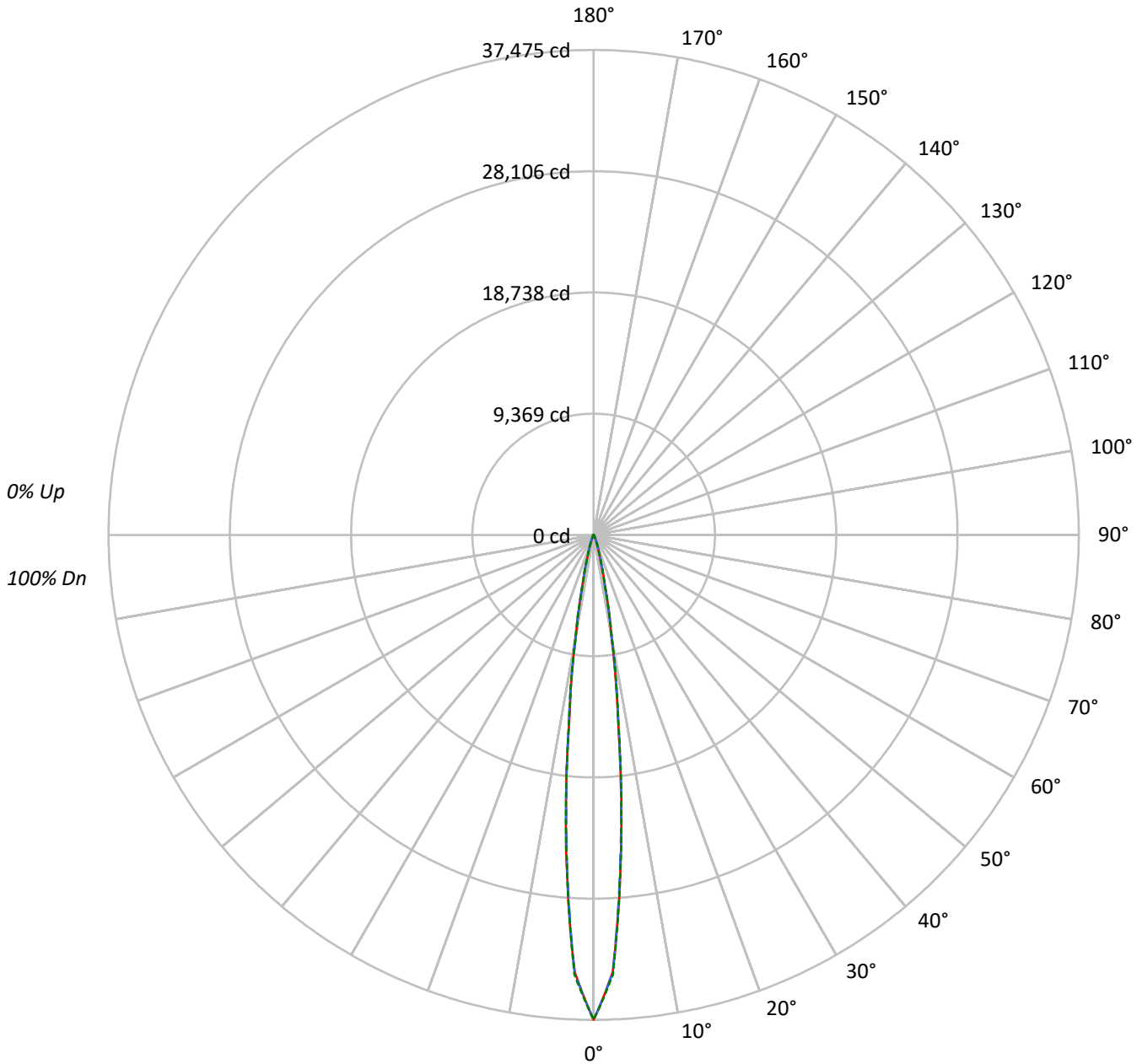


Downlight



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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	98	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°	4216708	4216708	4216708
5°	2477936	2445852	2465202
10°	739547	744725	756127
15°	183954	187541	181748
20°	55042	63732	56204
25°	19405	24718	19647
30°	7129	9383	7249
35°	3573	4030	3457
40°	2251	2478	2251
45°	1666	1778	1666
50°	1321	1321	1321
55°	1107	1107	1107
60°	892	892	892
65°	678	678	678
70°	578	578	578
75°	363	363	476
80°	252	252	252
85°	133	133	133

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1778 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1783.9	64.9
10°-20°	733.8	26.7
20°-30°	145.7	5.3
30°-40°	36.4	1.3
40°-50°	19.1	0.7
50°-60°	14.2	0.5
60°-70°	10.0	0.4
70°-80°	5.7	0.2
80°-90°	1.7	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°	2663.4	96.8
0°-40°	2699.8	98.2
0°-60°	2733.1	99.4
0°-90°	2750.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2750.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	37475	37475	37475	37475	37475	
5°	24382	24132	24066	24233	24257	1781
15°	2118	2158	2159	2121	2092	726
25°	249	282	317	281	252	131
35°	49	52	56	52	48	33
45°	24	24	25	24	24	19
55°	16	16	16	16	16	14
65°	10	10	10	10	10	10
75°	5	5	5	5	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	37475.2	37475.2	37475.2	37475.2	37475.2
2.5°	33804.1	33832.7	33843.8	33877.1	34000.8
5°	24382.2	24131.5	24066.5	24233.1	24256.9
7.5°	14443.1	14493.8	14679.4	14720.7	14571.6
10°	7925.9	7991.0	7981.4	8038.6	8103.6
12.5°	4053.4	4002.6	3986.8	4051.8	3961.4
15°	2117.9	2157.6	2159.2	2121.1	2092.5
17.5°	1139.1	1185.1	1261.2	1199.4	1104.2
20°	672.7	713.9	778.9	728.2	686.9
22.5°	415.7	449.0	495.0	455.3	422.0
25°	249.1	282.4	317.3	280.8	252.2
27.5°	147.5	176.1	198.3	174.5	146.0
30°	95.2	111.1	125.3	109.5	96.8
32.5°	66.6	73.0	79.3	73.0	66.6
35°	49.2	52.4	55.5	52.4	47.6
37.5°	38.1	41.2	42.8	39.7	36.5
40°	31.7	33.3	34.9	33.3	31.7
42.5°	27.0	28.6	28.6	28.6	27.0
45°	23.8	23.8	25.4	23.8	23.8
47.5°	20.6	20.6	22.2	20.6	20.6
50°	19.0	19.0	19.0	19.0	19.0
52.5°	17.5	17.5	17.5	17.5	17.5
55°	15.9	15.9	15.9	15.9	15.9
57.5°	14.3	14.3	14.3	14.3	14.3
60°	12.7	12.7	12.7	12.7	12.7
62.5°	11.1	11.1	11.1	11.1	11.1
65°	9.5	9.5	9.5	9.5	9.5
67.5°	9.5	9.5	9.5	9.5	9.5
70°	7.9	7.9	7.9	7.9	7.9
72.5°	6.3	6.3	6.3	6.3	6.3
75°	4.8	4.8	4.8	4.8	6.3
77.5°	4.8	4.8	4.8	4.8	4.8
80°	3.2	3.2	3.2	3.2	3.2
82.5°	3.2	3.2	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	1.6
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)