

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: P743935

Luminaire Tested: LD4D20D010-EU4DR1515309050-4LBSQW1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743935  
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: LD4D20D010-EU4DR1515309050-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1725.7 lumens  
Efficiency: N/A  
Efficacy: 74.7 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): 23.1  
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



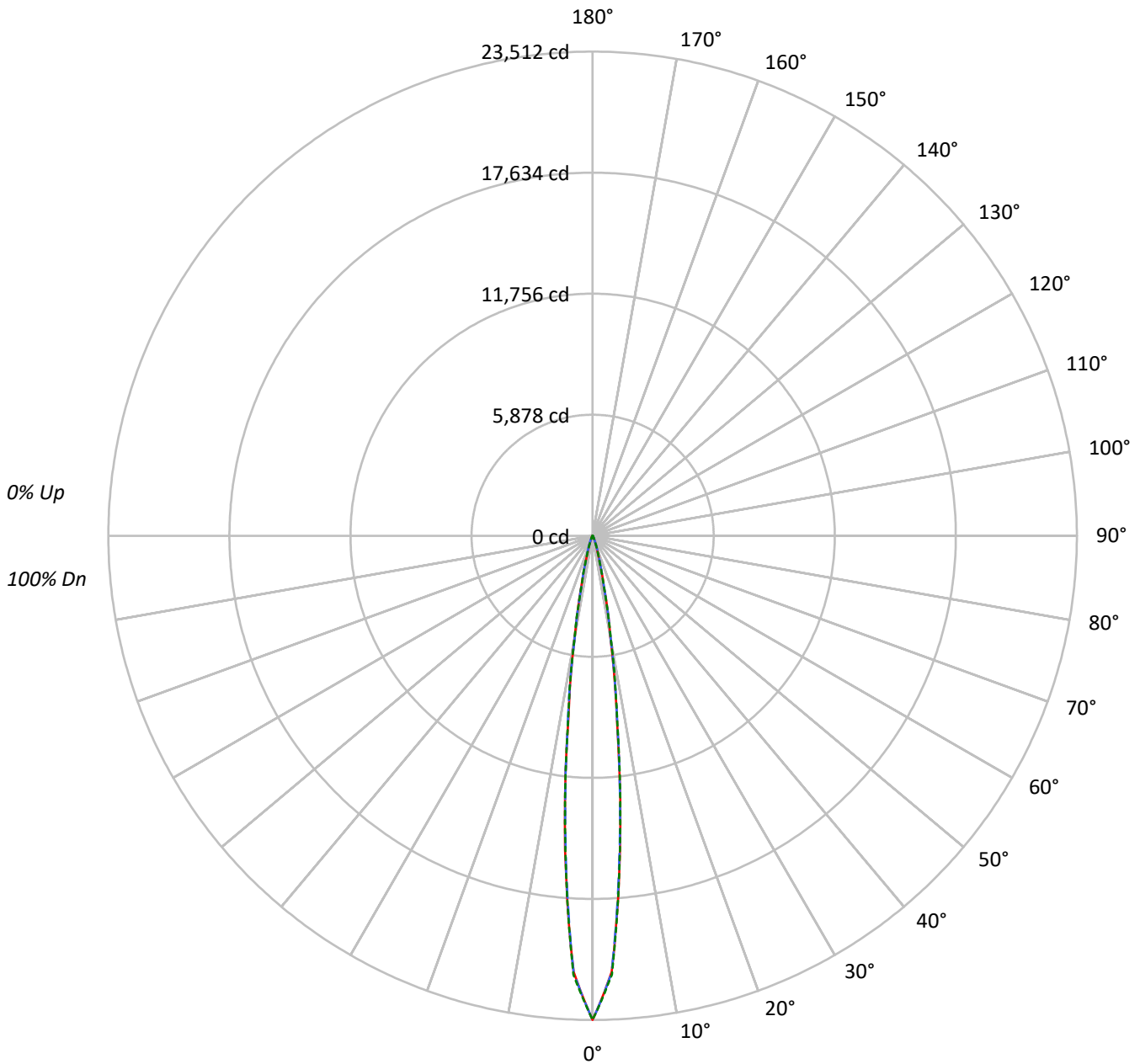
Downlight



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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	87	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°	2645513	2645513	2645513
5°	1554628	1534505	1546639
10°	463981	467238	474385
15°	115415	117656	114026
20°	34529	39987	35266
25°	12176	15510	12332
30°	4470	5886	4545
35°	2244	2527	2171
40°	1413	1555	1413
45°	1043	1113	1043
50°	827	827	827
55°	696	696	696
60°	562	562	562
65°	428	428	428
70°	366	366	366
75°	227	227	302
80°	158	158	158
85°	83	83	83

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1113 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1119.2	64.9
10°-20°	460.4	26.7
20°-30°	91.4	5.3
30°-40°	22.8	1.3
40°-50°	12.0	0.7
50°-60°	8.9	0.5
60°-70°	6.3	0.4
70°-80°	3.6	0.2
80°-90°	1.1	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°	1671.0	96.8
0°-40°	1693.8	98.2
0°-60°	1714.7	99.4
0°-90°	1725.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1725.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23512	23512	23512	23512	23512	
5°	15297	15140	15099	15204	15218	1117
15°	1329	1354	1355	1331	1313	456
25°	156	177	199	176	158	82
35°	31	33	35	33	30	21
45°	15	15	16	15	15	12
55°	10	10	10	10	10	9
65°	6	6	6	6	6	6
75°	3	3	3	3	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	23511.5	23511.5	23511.5	23511.5	23511.5
2.5°	21208.4	21226.3	21233.2	21254.1	21331.8
5°	15297.1	15139.9	15099.1	15203.6	15218.5
7.5°	9061.4	9093.3	9209.7	9235.6	9142.0
10°	4972.6	5013.4	5007.5	5043.3	5084.1
12.5°	2543.1	2511.2	2501.2	2542.1	2485.3
15°	1328.8	1353.6	1354.6	1330.7	1312.8
17.5°	714.6	743.5	791.3	752.5	692.7
20°	422.0	447.9	488.7	456.9	431.0
22.5°	260.8	281.7	310.5	285.7	264.8
25°	156.3	177.2	199.1	176.2	158.3
27.5°	92.6	110.5	124.4	109.5	91.6
30°	59.7	69.7	78.6	68.7	60.7
32.5°	41.8	45.8	49.8	45.8	41.8
35°	30.9	32.8	34.8	32.8	29.9
37.5°	23.9	25.9	26.9	24.9	22.9
40°	19.9	20.9	21.9	20.9	19.9
42.5°	16.9	17.9	17.9	17.9	16.9
45°	14.9	14.9	15.9	14.9	14.9
47.5°	12.9	12.9	13.9	12.9	12.9
50°	11.9	11.9	11.9	11.9	11.9
52.5°	10.9	10.9	10.9	10.9	10.9
55°	10.0	10.0	10.0	10.0	10.0
57.5°	9.0	9.0	9.0	9.0	9.0
60°	8.0	8.0	8.0	8.0	8.0
62.5°	7.0	7.0	7.0	7.0	7.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	6.0	6.0	6.0	6.0	6.0
70°	5.0	5.0	5.0	5.0	5.0
72.5°	4.0	4.0	4.0	4.0	4.0
75°	3.0	3.0	3.0	3.0	4.0
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



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Scaled Data Report







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

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(END OF REPORT)