

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: P744098

Luminaire Tested: LD4D20D010-EU4DR3020359024-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744098  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D20D010-EU4DR3020359024-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1649.5 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

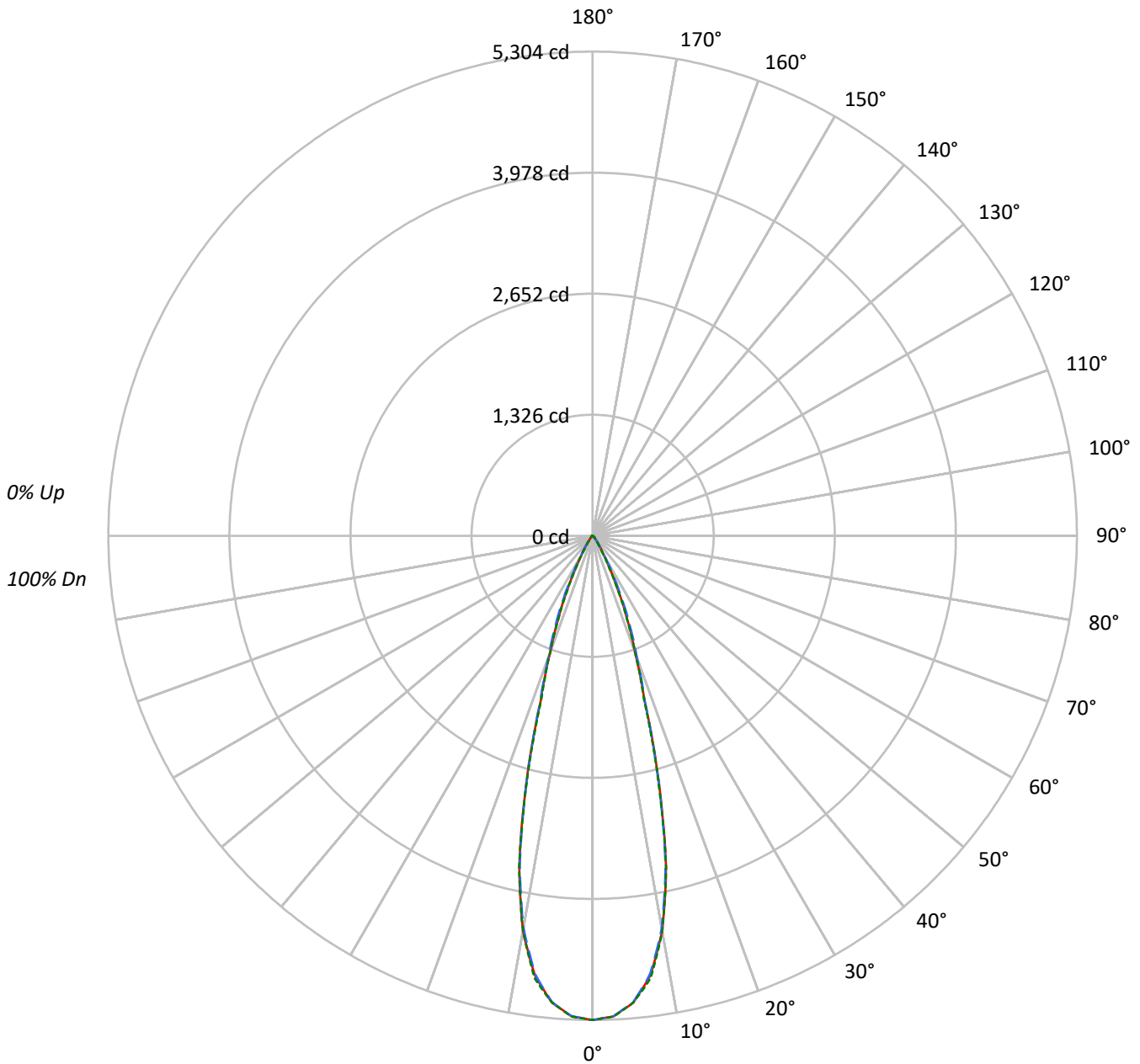


Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

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

	0°	45°	90°
0°	405986	405986	405986
5°	394329	393868	394352
10°	341551	339142	341474
15°	222849	221644	220535
20°	110812	114967	110666
25°	55817	62945	54677
30°	22344	24350	19471
35°	10363	9924	8316
40°	4476	4966	4217
45°	3161	3919	3183
50°	1084	2846	1143
55°	627	1188	654
60°	444	520	444
65°	272	272	272
70°	179	112	179
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3919 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.4	28.3
10°-20°	751.2	45.5
20°-30°	324.6	19.7
30°-40°	74.0	4.5
40°-50°	25.4	1.5
50°-60°	6.2	0.4
60°-70°	1.6	0.1
70°-80°	0.2	0.0
80°-90°	0.0	0.0
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°	1542.2	93.5
0°-40°	1616.1	98.0
0°-60°	1647.7	99.9
0°-90°	1649.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1649.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5304	5304	5304	5304	5304	
5°	5132	5127	5126	5137	5132	467
15°	2812	2778	2797	2788	2783	753
25°	661	686	745	668	647	316
35°	111	113	106	106	89	75
45°	29	36	36	36	29	21
55°	5	5	9	5	5	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5304.0	5304.0	5304.0	5304.0	5304.0
2.5°	5268.9	5265.2	5267.3	5269.9	5270.9
5°	5132.1	5127.2	5126.1	5136.8	5132.4
7.5°	4856.4	4849.3	4838.7	4862.9	4885.6
10°	4394.4	4386.6	4363.4	4374.9	4393.4
12.5°	3712.4	3687.1	3686.6	3723.1	3718.1
15°	2812.2	2778.3	2797.0	2787.9	2783.0
17.5°	1891.1	1878.1	1903.1	1895.5	1862.9
20°	1360.4	1363.7	1411.4	1387.5	1358.6
22.5°	992.7	1004.9	1061.4	999.7	977.1
25°	660.9	685.9	745.3	668.5	647.4
27.5°	406.5	418.0	478.1	401.3	389.8
30°	252.8	247.1	275.5	236.5	220.3
32.5°	165.9	158.6	167.7	150.5	137.5
35°	110.9	113.3	106.2	105.5	89.0
37.5°	69.3	79.7	70.3	75.0	57.3
40°	44.8	57.8	49.7	54.9	42.2
42.5°	36.7	44.5	40.9	43.5	37.5
45°	29.2	36.2	36.2	36.2	29.4
47.5°	16.2	24.2	31.0	24.8	17.2
50°	9.1	12.3	23.9	12.8	9.6
52.5°	6.2	7.0	16.4	7.3	6.5
55°	4.7	4.9	8.9	5.2	4.9
57.5°	3.7	3.9	4.7	3.9	3.7
60°	2.9	2.9	3.4	3.2	2.9
62.5°	2.1	2.1	2.3	2.1	2.1
65°	1.5	1.5	1.5	1.5	1.5
67.5°	0.8	1.0	1.0	1.0	1.0
70°	0.8	0.5	0.5	0.5	0.8
72.5°	0.5	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)