

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: P744111

Luminaire Tested: LD4D20D010-EU4DR3020359027-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744111  
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-EU4DR3020359027-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1831.1 lumens  
Efficiency: N/A  
Efficacy: 79.3 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 (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

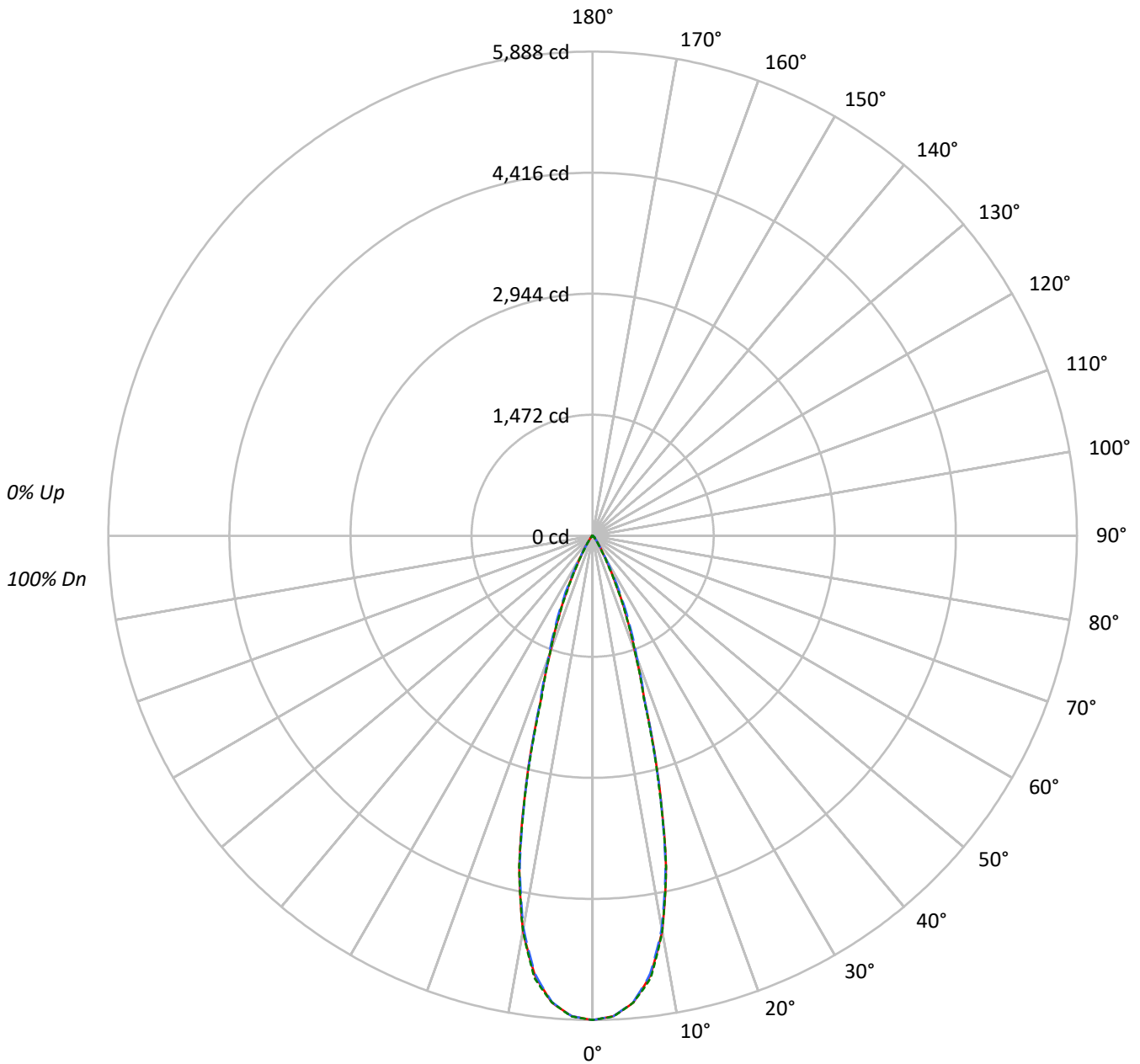


Downlight



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

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

	0°	45°	90°
0°	450680	450680	450680
5°	437741	437226	437764
10°	379154	376473	379061
15°	247375	246043	244815
20°	123006	127625	122843
25°	61966	69871	60699
30°	24810	27028	21610
35°	11503	11026	9241
40°	4966	5516	4676
45°	3507	4352	3540
50°	1203	3168	1274
55°	694	1321	734
60°	490	582	490
65°	308	308	308
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4352 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.7	28.3
10°-20°	833.8	45.5
20°-30°	360.3	19.7
30°-40°	82.1	4.5
40°-50°	28.2	1.5
50°-60°	6.9	0.4
60°-70°	1.8	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°	1711.9	93.5
0°-40°	1794.0	98.0
0°-60°	1829.2	99.9
0°-90°	1831.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1831.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5888	5888	5888	5888	5888	
5°	5697	5692	5690	5702	5697	518
15°	3122	3084	3105	3095	3089	836
25°	734	762	827	742	719	351
35°	123	126	118	117	99	84
45°	32	40	40	40	33	23
55°	5	6	10	6	6	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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5887.9	5887.9	5887.9	5887.9	5887.9
2.5°	5848.9	5844.8	5847.1	5850.0	5851.1
5°	5697.1	5691.6	5690.4	5702.3	5697.4
7.5°	5391.0	5383.2	5371.3	5398.2	5423.3
10°	4878.2	4869.5	4843.7	4856.4	4877.0
12.5°	4121.1	4093.0	4092.4	4132.9	4127.4
15°	3121.7	3084.1	3104.9	3094.9	3089.4
17.5°	2099.2	2084.8	2112.6	2104.2	2068.1
20°	1510.1	1513.9	1566.8	1540.2	1508.1
22.5°	1102.0	1115.5	1178.3	1109.7	1084.6
25°	733.7	761.5	827.3	742.0	718.7
27.5°	451.3	464.0	530.7	445.5	432.7
30°	280.7	274.3	305.8	262.5	244.5
32.5°	184.1	176.1	186.2	167.1	152.6
35°	123.1	125.8	118.0	117.1	98.9
37.5°	76.9	88.5	78.0	83.2	63.6
40°	49.7	64.2	55.2	61.0	46.8
42.5°	40.7	49.4	45.4	48.3	41.7
45°	32.4	40.2	40.2	40.2	32.7
47.5°	17.9	26.9	34.4	27.4	19.1
50°	10.1	13.6	26.6	14.2	10.7
52.5°	6.9	7.8	18.2	8.1	7.2
55°	5.2	5.5	9.9	5.8	5.5
57.5°	4.1	4.4	5.2	4.4	4.1
60°	3.2	3.2	3.8	3.5	3.2
62.5°	2.3	2.3	2.6	2.3	2.3
65°	1.7	1.7	1.7	1.7	1.7
67.5°	0.9	1.1	1.1	1.1	1.1
70°	0.9	0.6	0.6	0.6	0.9
72.5°	0.6	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)