

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: P744148

Luminaire Tested: LD4D20D010-EU4DR3020359040-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744148  
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-EU4DR3020359040-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1572.7 lumens  
Efficiency: N/A  
Efficacy: 68.1 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

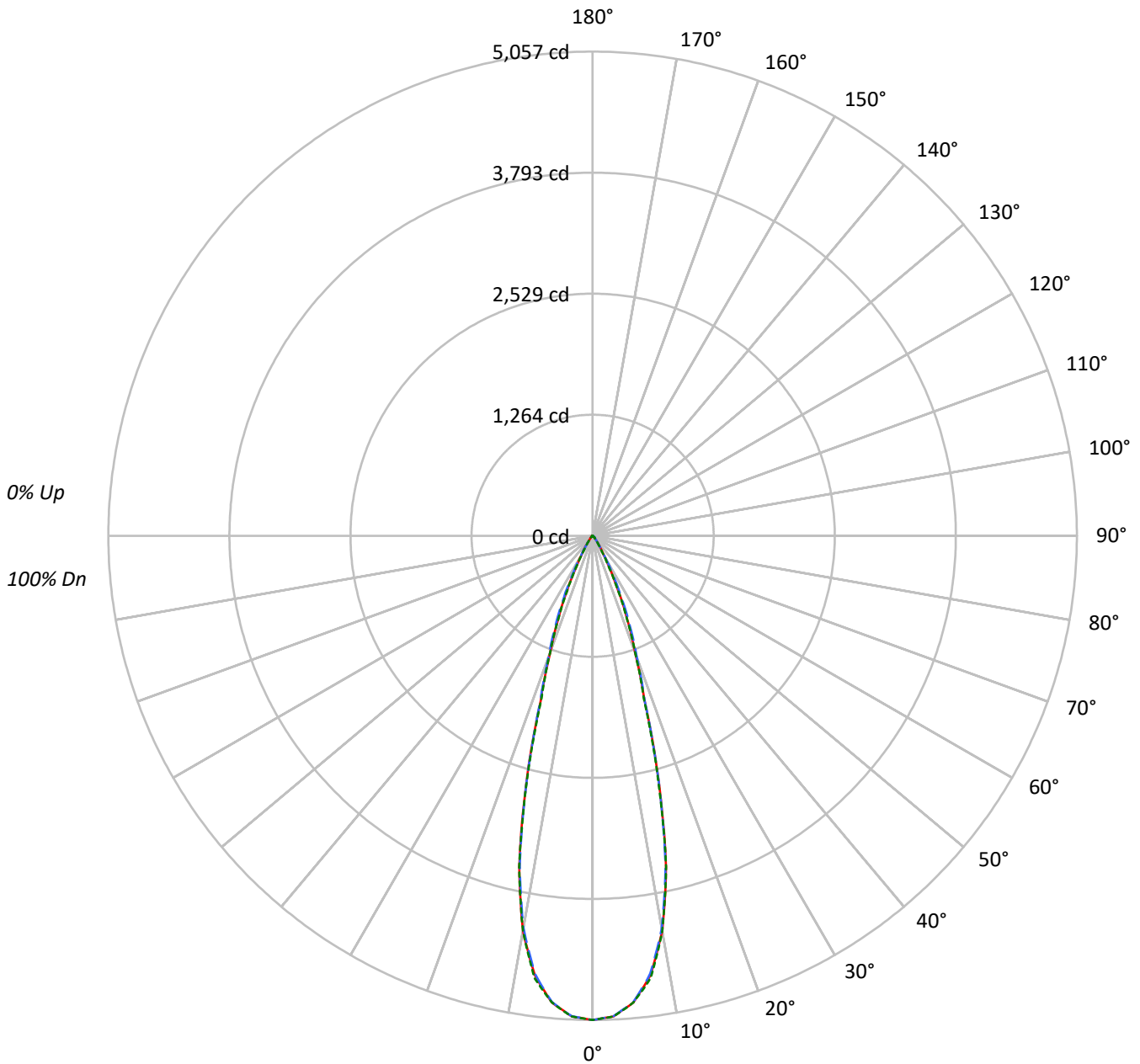


Downlight



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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°	387095	387095	387095
5°	375981	375543	375996
10°	325657	323356	325579
15°	212476	211335	210265
20°	105648	109615	105510
25°	53216	60015	52126
30°	21310	23219	18561
35°	9886	9466	7933
40°	4267	4736	4017
45°	3009	3735	3042
50°	1036	2727	1096
55°	601	1121	627
60°	429	490	429
65°	272	272	272
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3735 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.7	28.3
10°-20°	716.2	45.5
20°-30°	309.5	19.7
30°-40°	70.5	4.5
40°-50°	24.2	1.5
50°-60°	5.9	0.4
60°-70°	1.5	0.1
70°-80°	0.1	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°	1470.4	93.5
0°-40°	1540.9	98.0
0°-60°	1571.1	99.9
0°-90°	1572.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1572.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5057	5057	5057	5057	5057	
5°	4893	4888	4888	4898	4894	445
15°	2681	2649	2667	2658	2653	718
25°	630	654	711	637	617	302
35°	106	108	101	101	85	72
45°	28	34	34	34	28	20
55°	4	5	8	5	5	4
65°	2	2	2	2	2	1
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°	5057.2	5057.2	5057.2	5057.2	5057.2
2.5°	5023.6	5020.1	5022.1	5024.6	5025.6
5°	4893.3	4888.5	4887.6	4897.8	4893.5
7.5°	4630.4	4623.7	4613.5	4636.5	4658.1
10°	4189.9	4182.4	4160.3	4171.3	4188.9
12.5°	3539.6	3515.5	3515.0	3549.8	3545.1
15°	2681.3	2649.0	2666.9	2658.2	2653.4
17.5°	1803.1	1790.6	1814.5	1807.3	1776.3
20°	1297.0	1300.3	1345.7	1322.9	1295.3
22.5°	946.5	958.1	1012.0	953.2	931.6
25°	630.1	654.0	710.6	637.4	617.2
27.5°	387.6	398.5	455.8	382.6	371.7
30°	241.1	235.7	262.7	225.5	210.0
32.5°	158.1	151.2	159.9	143.5	131.1
35°	105.8	108.0	101.3	100.6	84.9
37.5°	66.1	76.0	67.0	71.5	54.6
40°	42.7	55.1	47.4	52.4	40.2
42.5°	35.0	42.5	39.0	41.5	35.8
45°	27.8	34.5	34.5	34.5	28.1
47.5°	15.4	23.1	29.6	23.6	16.4
50°	8.7	11.7	22.9	12.1	9.2
52.5°	6.0	6.7	15.6	6.9	6.2
55°	4.5	4.7	8.4	5.0	4.7
57.5°	3.5	3.7	4.5	3.7	3.5
60°	2.8	2.8	3.2	3.0	2.8
62.5°	2.0	2.0	2.2	2.0	2.0
65°	1.5	1.5	1.5	1.5	1.5
67.5°	0.7	1.0	1.0	1.0	1.0
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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

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Scaled Data Report







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

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(END OF REPORT)