

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: P749884

Luminaire Tested: LD4D55D010-EU4DR3055659027-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749884  
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: LD4D55D010-EU4DR3055659027-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4626.5 lumens  
Efficiency: N/A  
Efficacy: 79.5 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): 58.2  
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

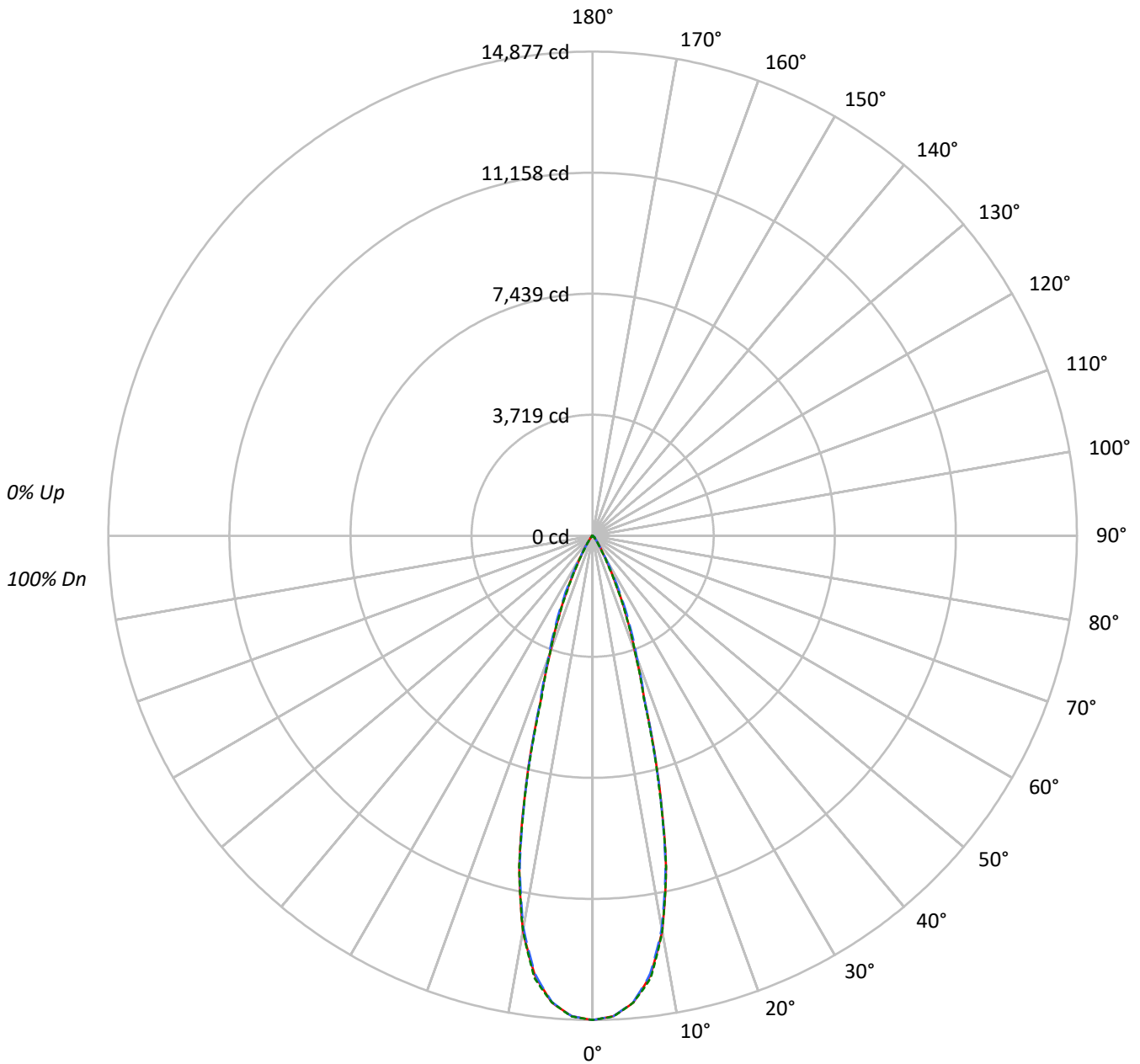


Downlight

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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°	1138705	1138705	1138705
5°	1106013	1104722	1106066
10°	957974	951220	957749
15°	625034	621674	618551
20°	310803	322459	310379
25°	156557	176547	153347
30°	62682	68304	54613
35°	29070	27846	23342
40°	12550	13939	11821
45°	8855	10987	8931
50°	3048	8002	3215
55°	1748	3310	1855
60°	1225	1454	1225
65°	797	797	797
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10987 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1308.2	28.3
10°-20°	2106.8	45.5
20°-30°	910.4	19.7
30°-40°	207.5	4.5
40°-50°	71.2	1.5
50°-60°	17.4	0.4
60°-70°	4.5	0.1
70°-80°	0.5	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°	4325.4	93.5
0°-40°	4532.9	98.0
0°-60°	4621.5	99.9
0°-90°	4626.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4626.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14877	14877	14877	14877	14877	
5°	14394	14381	14378	14408	14395	1309
15°	7888	7792	7845	7820	7806	2112
25°	1854	1924	2090	1875	1816	887
35°	311	318	298	296	250	211
45°	82	102	102	102	82	58
55°	13	14	25	15	14	13
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
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°	14876.6	14876.6	14876.6	14876.6	14876.6
2.5°	14778.0	14767.7	14773.6	14780.9	14783.8
5°	14394.5	14380.6	14377.7	14407.7	14395.2
7.5°	13621.0	13601.3	13571.4	13639.3	13702.8
10°	12325.3	12303.4	12238.4	12270.5	12322.4
12.5°	10412.4	10341.6	10340.1	10442.4	10428.5
15°	7887.5	7792.5	7845.1	7819.5	7805.7
17.5°	5304.1	5267.6	5337.7	5316.5	5225.2
20°	3815.6	3825.0	3958.7	3891.5	3810.4
22.5°	2784.2	2818.6	2977.1	2804.0	2740.4
25°	1853.7	1923.8	2090.4	1874.9	1815.7
27.5°	1140.1	1172.3	1341.0	1125.5	1093.4
30°	709.2	693.1	772.8	663.2	617.9
32.5°	465.3	444.8	470.4	422.2	385.6
35°	311.1	317.7	298.0	295.8	249.8
37.5°	194.3	223.5	197.2	210.4	160.7
40°	125.6	162.1	139.5	154.1	118.3
42.5°	103.0	124.9	114.7	122.0	105.2
45°	81.8	101.5	101.5	101.5	82.5
47.5°	45.3	67.9	86.9	69.4	48.2
50°	25.6	34.3	67.2	35.8	27.0
52.5°	17.5	19.7	46.0	20.5	18.3
55°	13.1	13.9	24.8	14.6	13.9
57.5°	10.2	11.0	13.1	11.0	10.2
60°	8.0	8.0	9.5	8.8	8.0
62.5°	5.8	5.8	6.6	5.8	5.8
65°	4.4	4.4	4.4	4.4	4.4
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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



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Scaled Data Report







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

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(END OF REPORT)