

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: P749929

Luminaire Tested: LD4D55D010-EU4DR3055659040-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749929  
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-EU4DR3055659040-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4751.8 lumens  
Efficiency: N/A  
Efficacy: 81.6 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

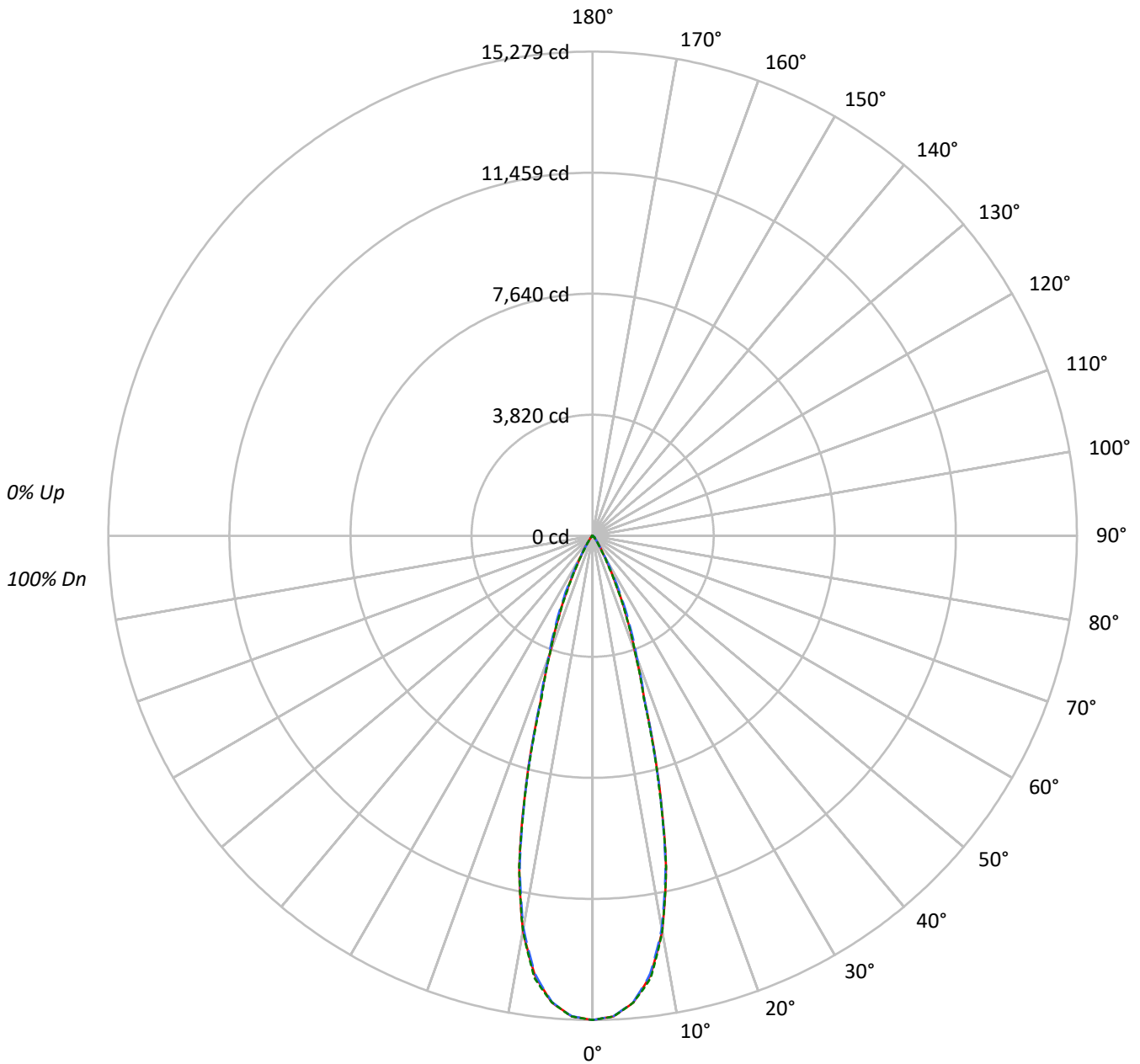
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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																			
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°	1169514	1169514	1169514
5°	1135940	1134611	1135994
10°	983895	976954	983662
15°	641944	638497	635288
20°	319209	331183	318777
25°	160796	181319	157503
30°	64379	70151	56089
35°	29864	28603	23977
40°	12890	14319	12140
45°	9093	11290	9179
50°	3132	8217	3310
55°	1802	3403	1908
60°	1271	1500	1271
65°	815	815	815
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 11290 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1343.6	28.3
10°-20°	2163.8	45.5
20°-30°	935.0	19.7
30°-40°	213.1	4.5
40°-50°	73.2	1.5
50°-60°	17.9	0.4
60°-70°	4.6	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°	4442.4	93.5
0°-40°	4655.5	98.0
0°-60°	4746.6	99.9
0°-90°	4751.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4751.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15279	15279	15279	15279	15279	
5°	14784	14770	14767	14798	14785	1345
15°	8101	8003	8057	8031	8017	2169
25°	1904	1976	2147	1926	1865	911
35°	320	326	306	304	257	217
45°	84	104	104	104	85	60
55°	14	14	26	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°	15279.1	15279.1	15279.1	15279.1	15279.1
2.5°	15177.8	15167.3	15173.3	15180.8	15183.8
5°	14784.0	14769.7	14766.7	14797.5	14784.7
7.5°	13989.6	13969.3	13938.5	14008.3	14073.6
10°	12658.8	12636.3	12569.5	12602.5	12655.8
12.5°	10694.1	10621.4	10619.9	10724.9	10710.7
15°	8100.9	8003.4	8057.4	8031.1	8016.9
17.5°	5447.6	5410.1	5482.1	5460.3	5366.6
20°	3918.8	3928.5	4065.8	3996.8	3913.5
22.5°	2859.6	2894.8	3057.6	2879.8	2814.6
25°	1903.9	1975.9	2146.9	1925.6	1864.9
27.5°	1171.0	1204.0	1377.3	1156.0	1123.0
30°	728.4	711.9	793.7	681.1	634.6
32.5°	477.8	456.8	483.1	433.6	396.1
35°	319.6	326.3	306.1	303.8	256.6
37.5°	199.5	229.5	202.5	216.0	165.0
40°	129.0	166.5	143.3	158.3	121.5
42.5°	105.8	128.3	117.8	125.3	108.0
45°	84.0	104.3	104.3	104.3	84.8
47.5°	46.5	69.8	89.3	71.3	49.5
50°	26.3	35.3	69.0	36.8	27.8
52.5°	18.0	20.3	47.3	21.0	18.8
55°	13.5	14.3	25.5	15.0	14.3
57.5°	10.5	11.3	13.5	11.3	10.5
60°	8.3	8.3	9.8	9.0	8.3
62.5°	6.0	6.0	6.8	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.3	3.0	3.0	3.0	3.0
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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