

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: P748343

Luminaire Tested: LD4D45BD010-EU4DR3040509030-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748343  
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: LD4D45BD010-EU4DR3040509030-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3383.2 lumens  
Efficiency: N/A  
Efficacy: 87.4 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

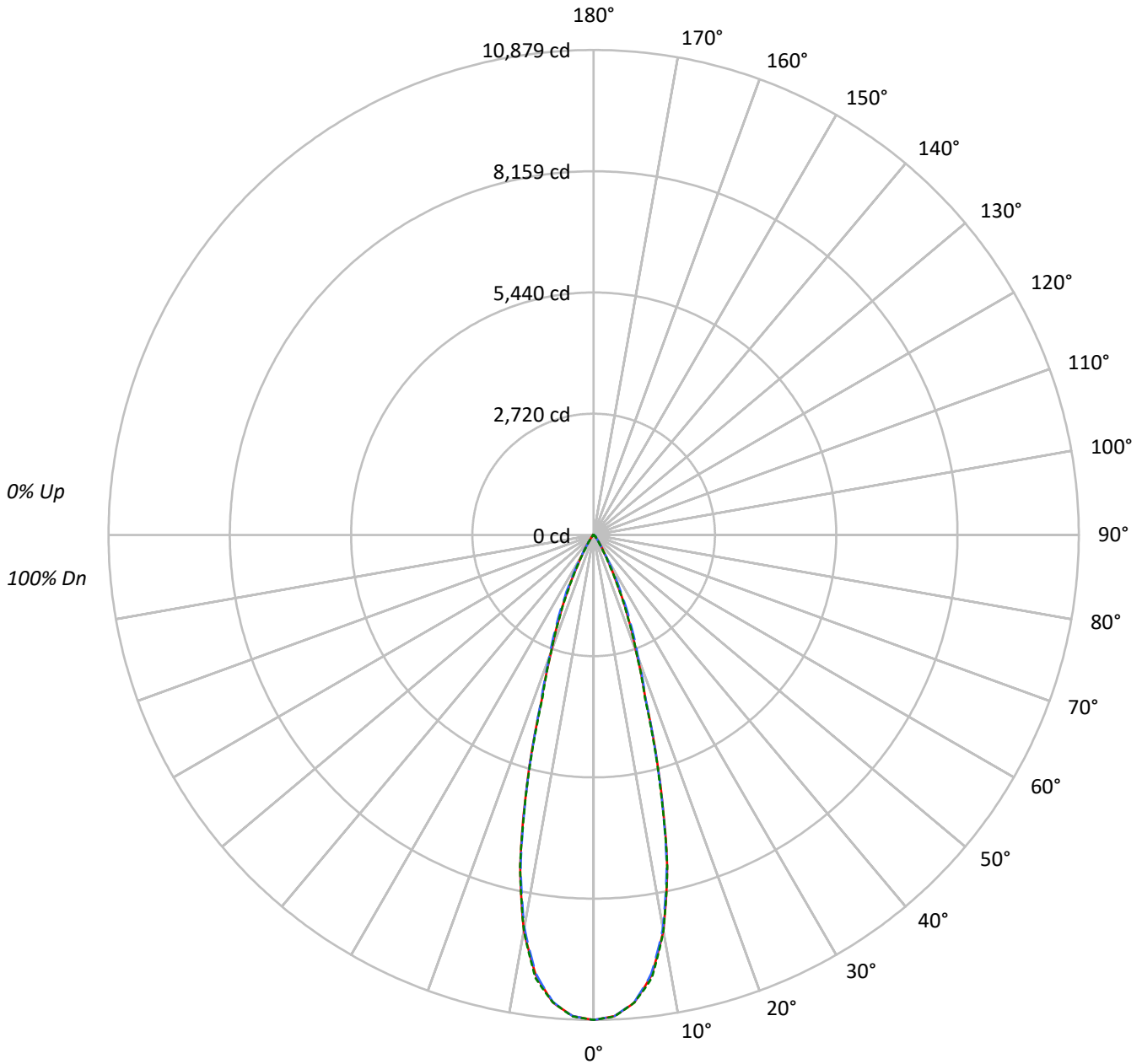
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	832685	832685	832685
5°	808781	807844	808827
10°	700528	695593	700365
15°	457061	454604	452322
20°	227278	235798	226968
25°	114489	129100	112141
30°	45836	49946	39941
35°	21258	20361	17072
40°	9183	10192	8643
45°	6473	8032	6538
50°	2227	5847	2358
55°	1281	2429	1348
60°	903	1056	903
65°	580	580	580
70°	358	246	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8032 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	956.6	28.3
10°-20°	1540.6	45.5
20°-30°	665.7	19.7
30°-40°	151.7	4.5
40°-50°	52.1	1.5
50°-60°	12.7	0.4
60°-70°	3.3	0.1
70°-80°	0.3	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°	3163.0	93.5
0°-40°	3314.7	98.0
0°-60°	3379.6	99.9
0°-90°	3383.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3383.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10879	10879	10879	10879	10879	
5°	10526	10516	10514	10536	10527	957
15°	5768	5698	5737	5718	5708	1544
25°	1356	1407	1529	1371	1328	649
35°	228	232	218	216	183	154
45°	60	74	74	74	60	42
55°	10	10	18	11	10	9
65°	3	3	3	3	3	3
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°	10878.6	10878.6	10878.6	10878.6	10878.6
2.5°	10806.5	10799.1	10803.3	10808.7	10810.8
5°	10526.1	10516.0	10513.9	10535.8	10526.7
7.5°	9960.5	9946.1	9924.2	9973.9	10020.3
10°	9013.0	8997.0	8949.5	8973.0	9010.9
12.5°	7614.2	7562.4	7561.3	7636.1	7625.9
15°	5767.8	5698.4	5736.8	5718.1	5708.0
17.5°	3878.7	3852.0	3903.2	3887.7	3821.0
20°	2790.2	2797.1	2894.8	2845.7	2786.4
22.5°	2036.0	2061.1	2177.0	2050.4	2004.0
25°	1355.6	1406.8	1528.6	1371.0	1327.8
27.5°	833.7	857.2	980.6	823.1	799.6
30°	518.6	506.9	565.1	485.0	451.9
32.5°	340.2	325.3	344.0	308.7	282.0
35°	227.5	232.3	217.9	216.3	182.7
37.5°	142.1	163.4	144.2	153.8	117.5
40°	91.9	118.6	102.0	112.7	86.5
42.5°	75.3	91.3	83.9	89.2	76.9
45°	59.8	74.2	74.2	74.2	60.4
47.5°	33.1	49.7	63.6	50.7	35.3
50°	18.7	25.1	49.1	26.2	19.8
52.5°	12.8	14.4	33.6	15.0	13.4
55°	9.6	10.1	18.2	10.7	10.1
57.5°	7.5	8.0	9.6	8.0	7.5
60°	5.9	5.9	6.9	6.4	5.9
62.5°	4.3	4.3	4.8	4.3	4.3
65°	3.2	3.2	3.2	3.2	3.2
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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