

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: P748368

Luminaire Tested: LD4D45BD010-EU4DR3040509040-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748368  
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-EU4DR3040509040-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

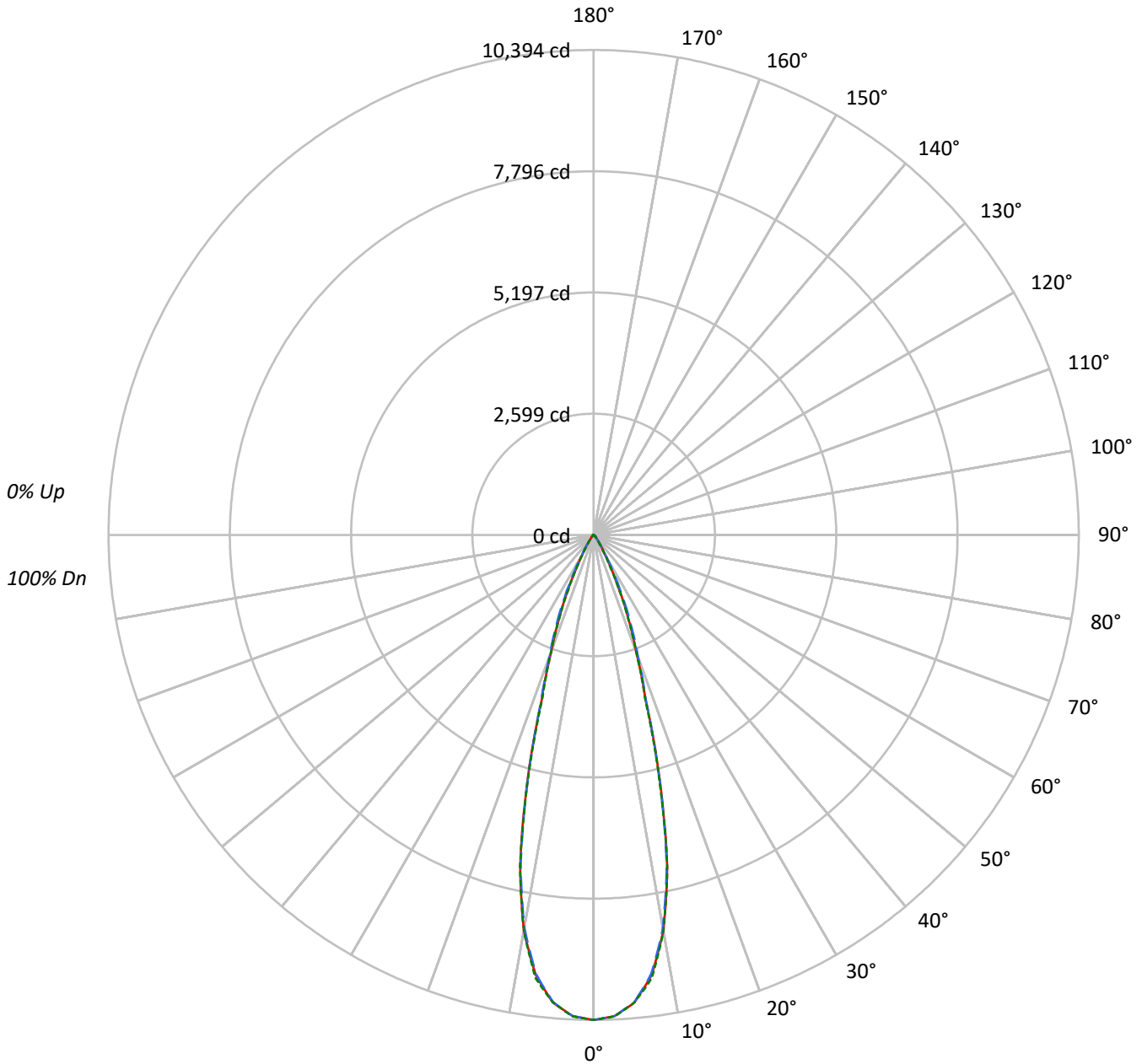
Lumens per Lamp: N/A  
Luminaire Lumens: 3232.4 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	795569	795569	795569
5°	772730	771823	772768
10°	669299	664581	669143
15°	436687	434342	432155
20°	217145	225290	216852
25°	109379	123348	107141
30°	43795	47719	38156
35°	20314	19455	16306
40°	8773	9742	8263
45°	6192	7675	6246
50°	2132	5585	2251
55°	1228	2309	1294
60°	857	1010	857
65°	561	561	561
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7675 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	914.0	28.3
10°-20°	1471.9	45.5
20°-30°	636.1	19.7
30°-40°	145.0	4.5
40°-50°	49.8	1.5
50°-60°	12.2	0.4
60°-70°	3.1	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°	3022.0	93.5
0°-40°	3167.0	98.0
0°-60°	3228.9	99.9
0°-90°	3232.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3232.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10394	10394	10394	10394	10394	
5°	10057	10047	10045	10066	10057	915
15°	5511	5444	5481	5463	5454	1476
25°	1295	1344	1460	1310	1269	620
35°	217	222	208	207	174	147
45°	57	71	71	71	58	41
55°	9	10	17	10	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°	10393.7	10393.7	10393.7	10393.7	10393.7
2.5°	10324.8	10317.6	10321.7	10326.8	10328.8
5°	10056.9	10047.2	10045.1	10066.0	10057.4
7.5°	9516.5	9502.7	9481.8	9529.2	9573.6
10°	8611.2	8595.9	8550.5	8572.9	8609.2
12.5°	7274.7	7225.2	7224.2	7295.7	7286.0
15°	5510.7	5444.3	5481.1	5463.2	5453.5
17.5°	3705.8	3680.2	3729.2	3714.4	3650.6
20°	2665.8	2672.4	2765.8	2718.8	2662.2
22.5°	1945.2	1969.2	2080.0	1959.0	1914.6
25°	1295.1	1344.1	1460.5	1309.9	1268.6
27.5°	796.6	819.0	936.9	786.4	763.9
30°	495.5	484.3	539.9	463.3	431.7
32.5°	325.1	310.8	328.6	294.9	269.4
35°	217.4	222.0	208.2	206.7	174.5
37.5°	135.7	156.1	137.8	147.0	112.3
40°	87.8	113.3	97.5	107.7	82.7
42.5°	72.0	87.3	80.1	85.2	73.5
45°	57.2	70.9	70.9	70.9	57.7
47.5°	31.6	47.5	60.7	48.5	33.7
50°	17.9	24.0	46.9	25.0	18.9
52.5°	12.2	13.8	32.1	14.3	12.8
55°	9.2	9.7	17.3	10.2	9.7
57.5°	7.1	7.7	9.2	7.7	7.1
60°	5.6	5.6	6.6	6.1	5.6
62.5°	4.1	4.1	4.6	4.1	4.1
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.5	2.0	2.0	2.0	2.0
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	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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