

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: P749162

Luminaire Tested: LD4D50D010-EU4DR3040509050-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749162  
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: LD4D50D010-EU4DR3040509050-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4232.8 lumens  
Efficiency: N/A  
Efficacy: 90.1 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

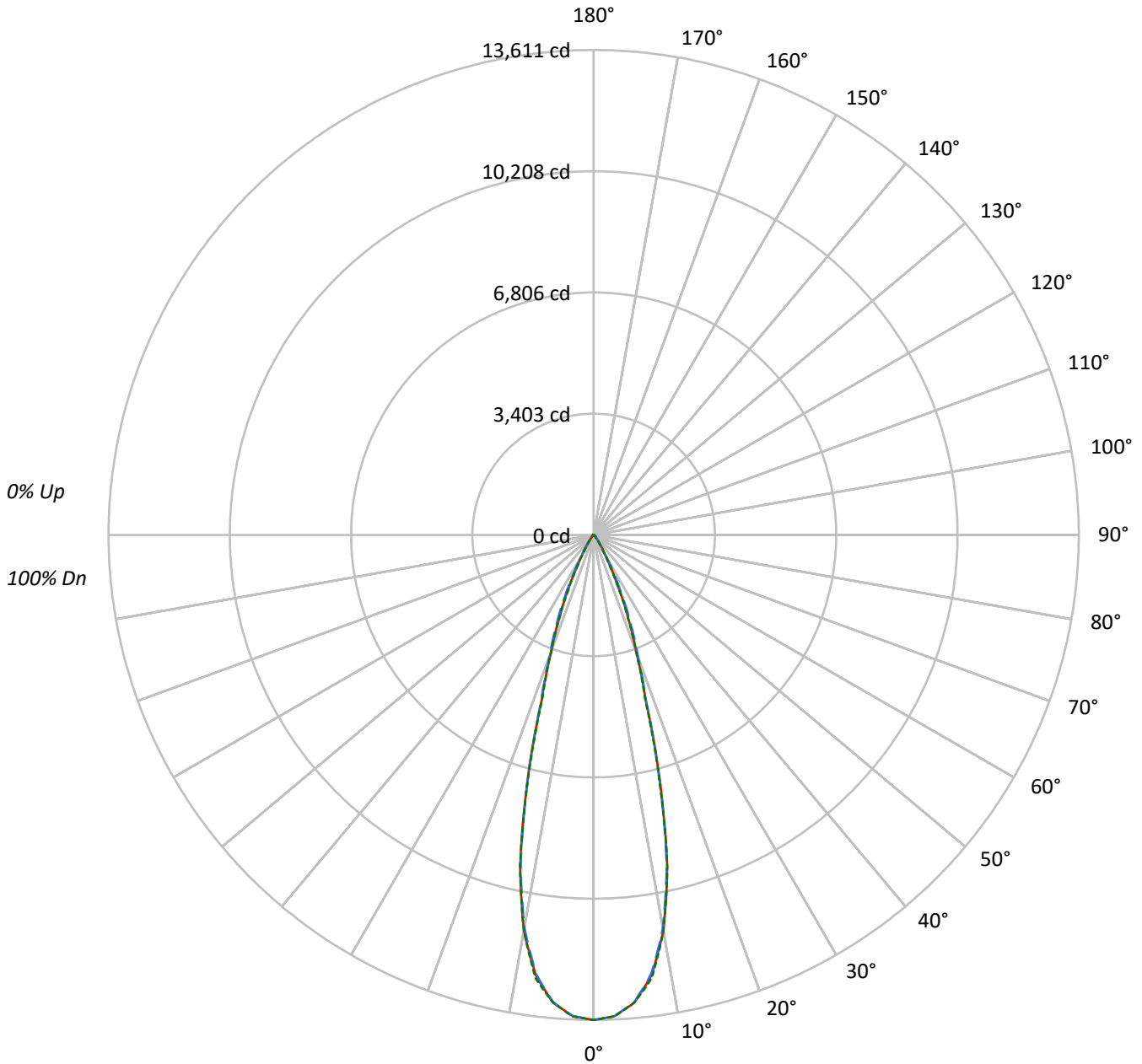
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	1041809	1041809	1041809
5°	1011896	1010721	1011950
10°	876457	870278	876247
15°	571845	568771	565918
20°	284354	295017	283971
25°	143238	161523	140299
30°	57353	62488	49964
35°	26603	25472	21352
40°	11481	12750	10821
45°	8097	10056	8173
50°	2786	7323	2941
55°	1601	3029	1695
60°	1133	1332	1133
65°	724	724	724
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10056 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1196.9	28.3
10°-20°	1927.5	45.5
20°-30°	832.9	19.7
30°-40°	189.8	4.5
40°-50°	65.2	1.5
50°-60°	15.9	0.4
60°-70°	4.1	0.1
70°-80°	0.4	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°	3957.3	93.5
0°-40°	4147.2	98.0
0°-60°	4228.3	99.9
0°-90°	4232.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4232.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13611	13611	13611	13611	13611	
5°	13170	13157	13154	13182	13170	1198
15°	7216	7129	7178	7154	7142	1932
25°	1696	1760	1912	1715	1661	812
35°	285	291	273	271	228	193
45°	75	93	93	93	76	53
55°	12	13	23	13	13	12
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°	13610.7	13610.7	13610.7	13610.7	13610.7
2.5°	13520.4	13511.1	13516.4	13523.1	13525.8
5°	13169.6	13156.9	13154.3	13181.6	13170.3
7.5°	12462.0	12443.9	12416.5	12478.7	12536.8
10°	11276.5	11256.5	11197.0	11226.4	11273.8
12.5°	9526.4	9461.6	9460.2	9553.8	9541.1
15°	7216.3	7129.4	7177.5	7154.1	7141.5
17.5°	4852.7	4819.3	4883.5	4864.1	4780.6
20°	3490.9	3499.6	3621.8	3560.4	3486.2
22.5°	2547.3	2578.7	2723.7	2565.4	2507.2
25°	1696.0	1760.1	1912.5	1715.4	1661.2
27.5°	1043.1	1072.5	1226.9	1029.8	1000.4
30°	648.9	634.2	707.0	606.8	565.3
32.5°	425.7	407.0	430.3	386.2	352.8
35°	284.7	290.7	272.6	270.6	228.5
37.5°	177.8	204.5	180.4	192.5	147.0
40°	114.9	148.3	127.6	141.0	108.3
42.5°	94.2	114.3	104.9	111.6	96.2
45°	74.8	92.9	92.9	92.9	75.5
47.5°	41.4	62.1	79.5	63.5	44.1
50°	23.4	31.4	61.5	32.7	24.7
52.5°	16.0	18.0	42.1	18.7	16.7
55°	12.0	12.7	22.7	13.4	12.7
57.5°	9.4	10.0	12.0	10.0	9.4
60°	7.4	7.4	8.7	8.0	7.4
62.5°	5.3	5.3	6.0	5.3	5.3
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	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

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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