

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: P749123

Luminaire Tested: LD4D50D010-EU4DR3040509030-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749123  
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-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: 3973.3 lumens  
Efficiency: N/A  
Efficacy: 84.5 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

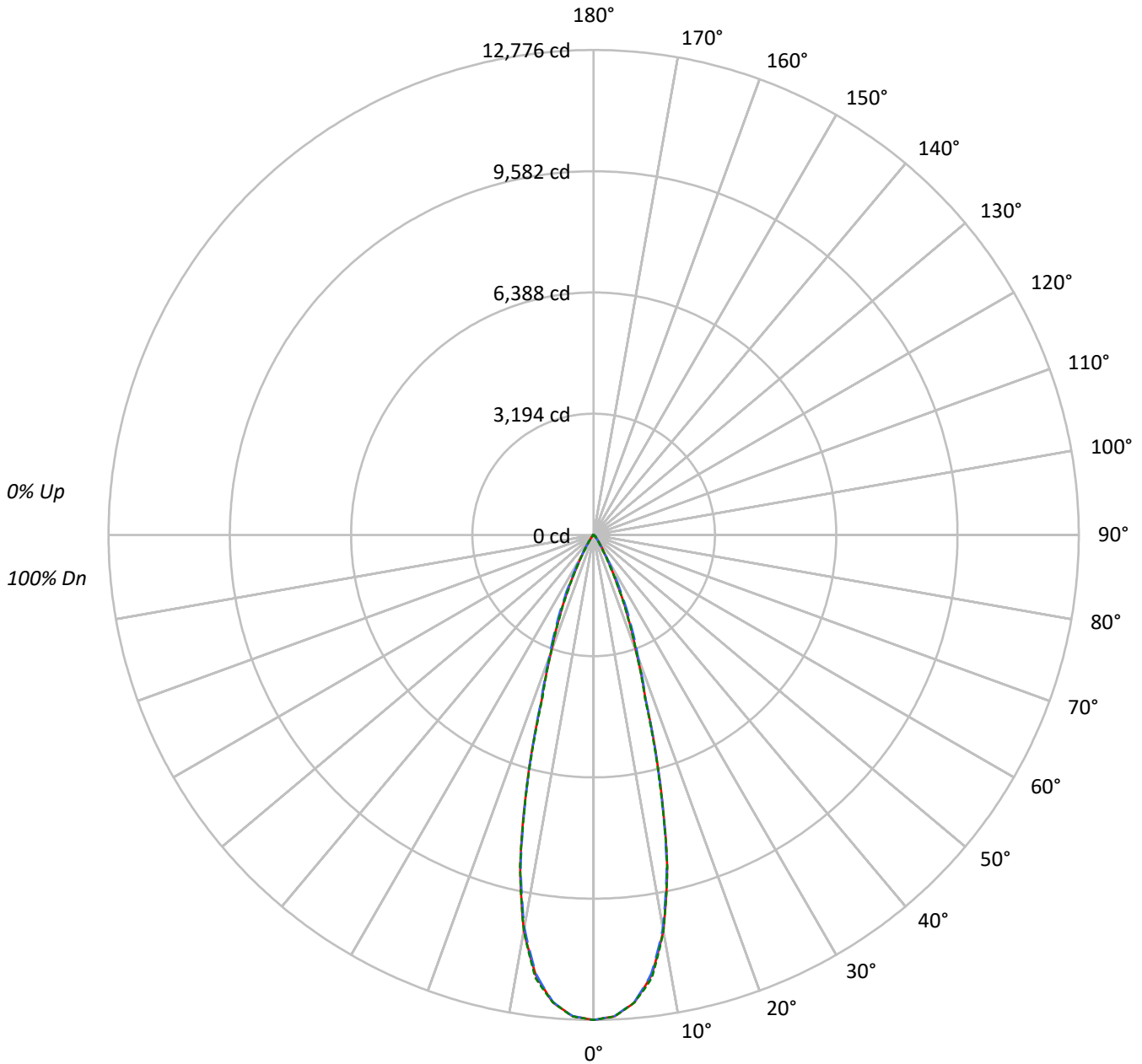
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	977918	977918	977918
5°	949844	948730	949890
10°	822711	816905	822509
15°	536772	533896	531209
20°	266914	276925	266556
25°	134454	151616	131701
30°	53835	58652	46906
35°	24968	23912	20043
40°	10781	11970	10152
45°	7610	9439	7675
50°	2620	6871	2763
55°	1508	2842	1588
60°	1056	1255	1056
65°	688	688	688
70°	425	291	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 9439 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1123.5	28.3
10°-20°	1809.3	45.5
20°-30°	781.9	19.7
30°-40°	178.2	4.5
40°-50°	61.2	1.5
50°-60°	14.9	0.4
60°-70°	3.9	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°	3714.6	93.5
0°-40°	3892.8	98.0
0°-60°	3969.0	99.9
0°-90°	3973.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3973.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12776	12776	12776	12776	12776	
5°	12362	12350	12348	12373	12363	1124
15°	6774	6692	6737	6715	6704	1814
25°	1592	1652	1795	1610	1559	762
35°	267	273	256	254	214	181
45°	70	87	87	87	71	50
55°	11	12	21	12	12	11
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°	12776.0	12776.0	12776.0	12776.0	12776.0
2.5°	12691.3	12682.5	12687.5	12693.8	12696.3
5°	12362.0	12350.1	12347.5	12373.3	12362.6
7.5°	11697.7	11680.8	11655.1	11713.4	11768.0
10°	10585.0	10566.1	10510.3	10537.9	10582.4
12.5°	8942.2	8881.3	8880.1	8967.9	8956.0
15°	6773.7	6692.2	6737.4	6715.4	6703.5
17.5°	4555.1	4523.8	4584.0	4565.8	4487.4
20°	3276.8	3284.9	3399.7	3342.0	3272.4
22.5°	2391.1	2420.6	2556.7	2408.0	2353.5
25°	1592.0	1652.2	1795.2	1610.2	1559.4
27.5°	979.1	1006.7	1151.6	966.6	939.0
30°	609.1	595.3	663.6	569.5	530.7
32.5°	399.6	382.0	404.0	362.6	331.2
35°	267.2	272.9	255.9	254.0	214.5
37.5°	166.9	191.9	169.4	180.6	138.0
40°	107.9	139.3	119.8	132.4	101.6
42.5°	88.4	107.3	98.5	104.8	90.3
45°	70.3	87.2	87.2	87.2	70.9
47.5°	38.9	58.3	74.6	59.6	41.4
50°	22.0	29.5	57.7	30.7	23.2
52.5°	15.1	16.9	39.5	17.6	15.7
55°	11.3	11.9	21.3	12.5	11.9
57.5°	8.8	9.4	11.3	9.4	8.8
60°	6.9	6.9	8.2	7.5	6.9
62.5°	5.0	5.0	5.6	5.0	5.0
65°	3.8	3.8	3.8	3.8	3.8
67.5°	1.9	2.5	2.5	2.5	2.5
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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