

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: P749095

Luminaire Tested: LD4D50D010-EU4DR3040509024-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749095  
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-EU4DR3040509024-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4051.9 lumens  
Efficiency: N/A  
Efficacy: 86.2 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

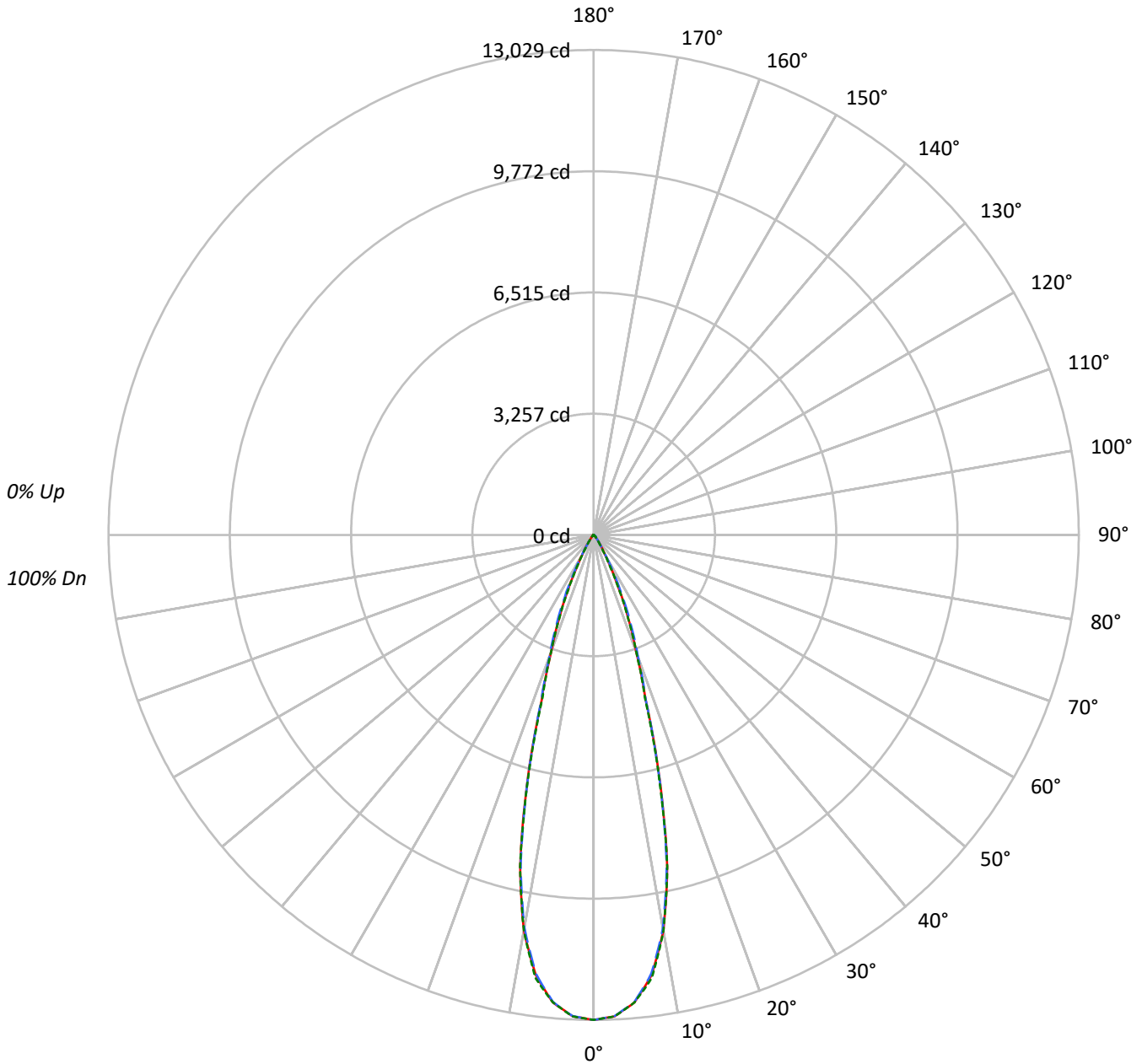
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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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°	997276	997276	997276
5°	968646	967516	968699
10°	838994	833079	838800
15°	547407	544467	541725
20°	272201	282407	271834
25°	137115	154623	134302
30°	54896	59819	47834
35°	25463	24388	20445
40°	10991	12210	10352
45°	7751	9623	7826
50°	2667	7014	2822
55°	1535	2896	1628
60°	1072	1271	1072
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: 9623 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1145.7	28.3
10°-20°	1845.2	45.5
20°-30°	797.3	19.7
30°-40°	181.7	4.5
40°-50°	62.4	1.5
50°-60°	15.2	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°	3788.2	93.5
0°-40°	3969.9	98.0
0°-60°	4047.6	99.9
0°-90°	4051.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4051.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13029	13029	13029	13029	13029	
5°	12607	12595	12592	12618	12607	1147
15°	6908	6825	6871	6848	6836	1850
25°	1624	1685	1831	1642	1590	777
35°	272	278	261	259	219	185
45°	72	89	89	89	72	51
55°	12	12	22	13	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°	13028.9	13028.9	13028.9	13028.9	13028.9
2.5°	12942.6	12933.6	12938.7	12945.1	12947.7
5°	12606.7	12594.6	12592.0	12618.2	12607.4
7.5°	11929.3	11912.0	11885.8	11945.3	12001.0
10°	10794.5	10775.3	10718.4	10746.5	10792.0
12.5°	9119.2	9057.2	9055.9	9145.4	9133.3
15°	6907.9	6824.7	6870.8	6848.4	6836.2
17.5°	4645.3	4613.3	4674.7	4656.2	4576.2
20°	3341.7	3350.0	3467.0	3408.2	3337.2
22.5°	2438.4	2468.5	2607.3	2455.7	2400.1
25°	1623.5	1684.9	1830.8	1642.0	1590.2
27.5°	998.5	1026.7	1174.4	985.7	957.6
30°	621.1	607.1	676.8	580.8	541.2
32.5°	407.5	389.6	412.0	369.7	337.7
35°	272.5	278.3	261.0	259.1	218.8
37.5°	170.2	195.7	172.7	184.2	140.7
40°	110.0	142.0	122.2	135.0	103.6
42.5°	90.2	109.4	100.4	106.8	92.1
45°	71.6	88.9	88.9	88.9	72.3
47.5°	39.7	59.5	76.1	60.8	42.2
50°	22.4	30.1	58.9	31.3	23.7
52.5°	15.4	17.3	40.3	17.9	16.0
55°	11.5	12.2	21.7	12.8	12.2
57.5°	9.0	9.6	11.5	9.6	9.0
60°	7.0	7.0	8.3	7.7	7.0
62.5°	5.1	5.1	5.8	5.1	5.1
65°	3.8	3.8	3.8	3.8	3.8
67.5°	1.9	2.6	2.6	2.6	2.6
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

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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)