

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: P749146

Luminaire Tested: LD4D50D010-EU4DR3040509040-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749146  
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-EU4DR3040509040-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5525.2 lumens  
Efficiency: N/A  
Efficacy: 117.6 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

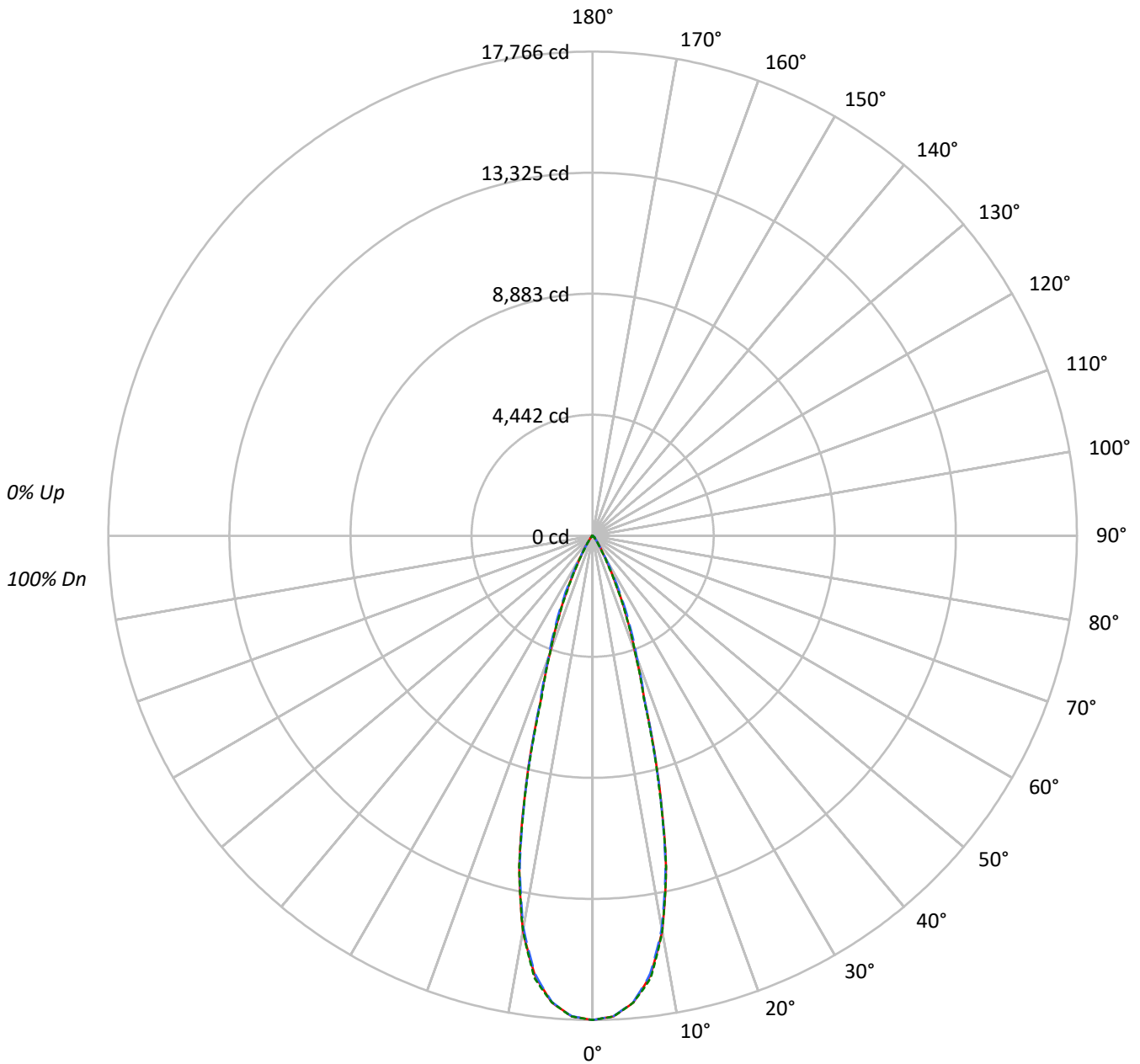
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1359878	1359878	1359878
5°	1320838	1319293	1320907
10°	1144046	1135978	1143774
15°	746435	742425	738693
20°	371170	385090	370673
25°	186969	210837	183135
30°	74862	81561	65219
35°	34723	33256	27874
40°	14988	16647	14119
45°	10576	13120	10673
50°	3632	9550	3846
55°	2095	3963	2215
60°	1470	1730	1470
65°	942	942	942
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13120 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1562.3	28.3
10°-20°	2516.0	45.5
20°-30°	1087.2	19.7
30°-40°	247.8	4.5
40°-50°	85.1	1.5
50°-60°	20.8	0.4
60°-70°	5.4	0.1
70°-80°	0.6	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°	5165.5	93.5
0°-40°	5413.3	98.0
0°-60°	5519.2	99.9
0°-90°	5525.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5525.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17766	17766	17766	17766	17766	
5°	17190	17174	17170	17206	17191	1564
15°	9420	9306	9369	9338	9322	2522
25°	2214	2298	2496	2239	2168	1060
35°	372	379	356	353	298	252
45°	98	121	121	121	99	69
55°	16	17	30	17	17	15
65°	5	5	5	5	5	5
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°	17766.1	17766.1	17766.1	17766.1	17766.1
2.5°	17648.3	17636.1	17643.1	17651.8	17655.3
5°	17190.4	17173.8	17170.3	17206.1	17191.3
7.5°	16266.7	16243.1	16207.4	16288.5	16364.4
10°	14719.3	14693.1	14615.5	14653.9	14715.8
12.5°	12434.9	12350.3	12348.5	12470.6	12454.1
15°	9419.5	9306.1	9368.9	9338.4	9321.8
17.5°	6334.3	6290.7	6374.4	6349.1	6240.1
20°	4556.7	4568.0	4727.6	4647.4	4550.6
22.5°	3325.0	3366.0	3555.3	3348.6	3272.7
25°	2213.8	2297.5	2496.4	2239.1	2168.4
27.5°	1361.6	1400.0	1601.5	1344.1	1305.8
30°	847.0	827.8	922.8	792.0	737.9
32.5°	555.6	531.2	561.7	504.2	460.6
35°	371.6	379.4	355.9	353.3	298.3
37.5°	232.0	266.9	235.5	251.2	191.9
40°	150.0	193.6	166.6	184.0	141.3
42.5°	123.0	149.2	136.9	145.7	125.6
45°	97.7	121.2	121.2	121.2	98.6
47.5°	54.1	81.1	103.8	82.9	57.6
50°	30.5	41.0	80.2	42.7	32.3
52.5°	20.9	23.6	55.0	24.4	21.8
55°	15.7	16.6	29.7	17.4	16.6
57.5°	12.2	13.1	15.7	13.1	12.2
60°	9.6	9.6	11.3	10.5	9.6
62.5°	7.0	7.0	7.9	7.0	7.0
65°	5.2	5.2	5.2	5.2	5.2
67.5°	2.6	3.5	3.5	3.5	3.5
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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



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Scaled Data Report







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

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(END OF REPORT)