

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: P749158

Luminaire Tested: LD4D50D010-EU4DR3040509050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749158
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-EU4DR3040509050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5299.6 lumens
Efficiency: N/A
Efficacy: 112.8 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

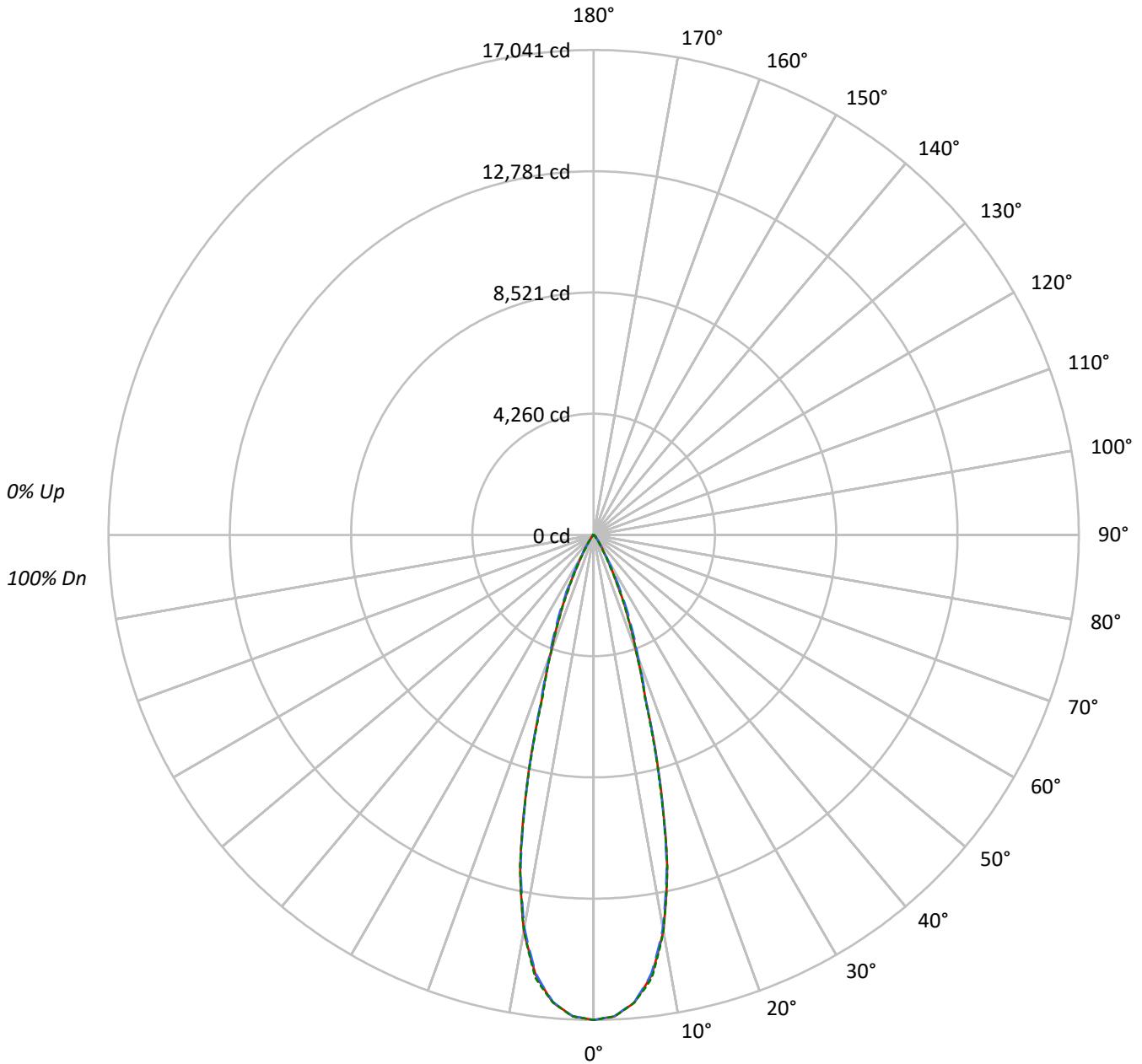
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1304368	1304368	1304368
5°	1266922	1265447	1266991
10°	1097349	1089608	1097093
15°	715966	712122	708540
20°	356019	369378	355538
25°	179334	202231	175661
30°	71804	78238	62559
35°	33303	31901	26734
40°	14379	15967	13539
45°	10143	12589	10230
50°	3489	9169	3691
55°	2015	3790	2122
60°	1408	1669	1408
65°	906	906	906
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12589 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1498.5	28.3
10°-20°	2413.3	45.5
20°-30°	1042.9	19.7
30°-40°	237.7	4.5
40°-50°	81.6	1.5
50°-60°	19.9	0.4
60°-70°	5.2	0.1
70°-80°	0.5	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°	4954.7	93.5
0°-40°	5192.4	98.0
0°-60°	5293.9	99.9
0°-90°	5299.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5299.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17041	17041	17041	17041	17041	
5°	16489	16473	16470	16504	16490	1500
15°	9035	8926	8986	8957	8941	2419
25°	2123	2204	2394	2148	2080	1016
35°	356	364	341	339	286	242
45°	94	116	116	116	94	67
55°	15	16	28	17	16	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°	17040.9	17040.9	17040.9	17040.9	17040.9
2.5°	16928.0	16916.3	16923.0	16931.3	16934.7
5°	16488.7	16472.8	16469.5	16503.8	16489.6
7.5°	15602.7	15580.1	15545.8	15623.6	15696.4
10°	14118.5	14093.4	14018.9	14055.8	14115.2
12.5°	11927.3	11846.2	11844.5	11961.6	11945.7
15°	9035.0	8926.2	8986.5	8957.2	8941.3
17.5°	6075.8	6033.9	6114.3	6090.0	5985.4
20°	4370.7	4381.5	4534.7	4457.7	4364.8
22.5°	3189.3	3228.6	3410.2	3211.9	3139.1
25°	2123.4	2203.7	2394.5	2147.7	2079.9
27.5°	1306.0	1342.8	1536.1	1289.3	1252.5
30°	812.4	794.0	885.2	759.7	707.8
32.5°	532.9	509.5	538.8	483.6	441.8
35°	356.4	363.9	341.4	338.8	286.1
37.5°	222.5	256.0	225.9	241.0	184.1
40°	143.9	185.7	159.8	176.5	135.5
42.5°	118.0	143.1	131.4	139.7	120.5
45°	93.7	116.3	116.3	116.3	94.5
47.5°	51.9	77.8	99.6	79.5	55.2
50°	29.3	39.3	77.0	41.0	31.0
52.5°	20.1	22.6	52.7	23.4	20.9
55°	15.1	15.9	28.4	16.7	15.9
57.5°	11.7	12.5	15.1	12.5	11.7
60°	9.2	9.2	10.9	10.0	9.2
62.5°	6.7	6.7	7.5	6.7	6.7
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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