

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: P749101

Luminaire Tested: LD4D50D010-EU4DR3040509027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749101
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-EU4DR3040509027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3693.2 lumens
Efficiency: N/A
Efficacy: 78.6 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

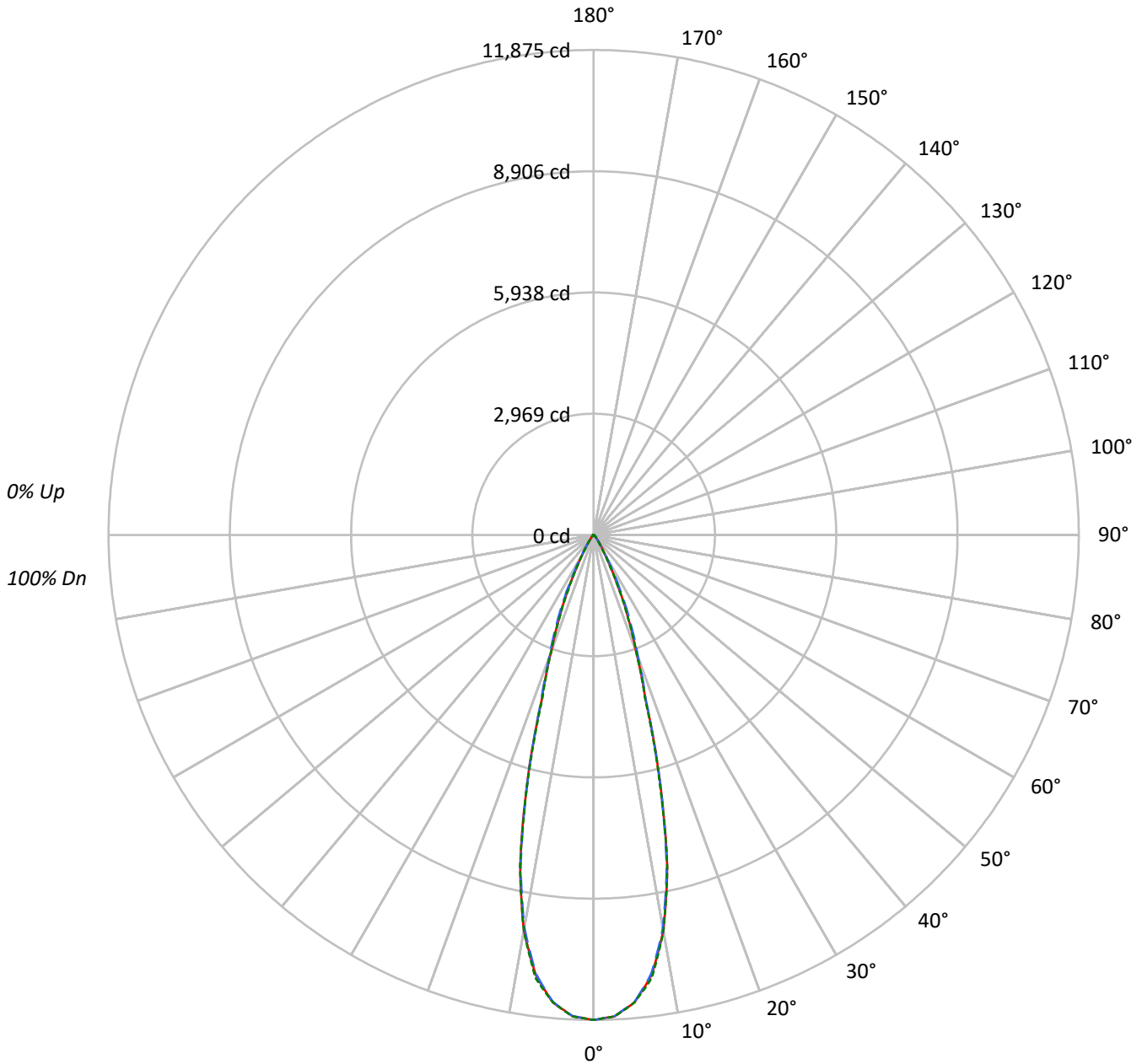
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	908983	908983	908983
5°	882889	881860	882935
10°	764713	759319	764534
15°	498941	496255	493767
20°	248098	257408	247764
25°	124978	140932	122411
30°	50035	54525	43600
35°	23211	22230	18632
40°	10022	11131	9442
45°	7069	8768	7134
50°	2429	6383	2572
55°	1401	2642	1481
60°	980	1163	980
65°	634	634	634
70°	380	269	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8768 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1044.3	28.3
10°-20°	1681.8	45.5
20°-30°	726.8	19.7
30°-40°	165.6	4.5
40°-50°	56.9	1.5
50°-60°	13.9	0.4
60°-70°	3.6	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°	3452.8	93.5
0°-40°	3618.4	98.0
0°-60°	3689.2	99.9
0°-90°	3693.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3693.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11875	11875	11875	11875	11875	
5°	11491	11480	11477	11501	11491	1045
15°	6296	6220	6262	6242	6231	1686
25°	1480	1536	1669	1497	1449	708
35°	248	254	238	236	199	168
45°	65	81	81	81	66	46
55°	10	11	20	12	11	10
65°	4	4	4	4	4	3
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11875.4	11875.4	11875.4	11875.4	11875.4
2.5°	11796.7	11788.5	11793.2	11799.0	11801.3
5°	11490.6	11479.5	11477.2	11501.1	11491.2
7.5°	10873.1	10857.4	10833.5	10887.7	10938.4
10°	9838.8	9821.3	9769.4	9795.1	9836.5
12.5°	8311.8	8255.3	8254.1	8335.7	8324.7
15°	6296.3	6220.5	6262.4	6242.0	6231.0
17.5°	4234.0	4204.9	4260.9	4244.0	4171.1
20°	3045.8	3053.4	3160.1	3106.4	3041.7
22.5°	2222.6	2250.0	2376.5	2238.3	2187.6
25°	1479.8	1535.7	1668.7	1496.7	1449.4
27.5°	910.1	935.8	1070.5	898.5	872.8
30°	566.1	553.3	616.9	529.4	493.3
32.5°	371.4	355.1	375.5	337.0	307.8
35°	248.4	253.6	237.9	236.1	199.4
37.5°	155.1	178.4	157.4	167.9	128.3
40°	100.3	129.4	111.4	123.0	94.5
42.5°	82.2	99.7	91.5	97.4	84.0
45°	65.3	81.0	81.0	81.0	65.9
47.5°	36.1	54.2	69.4	55.4	38.5
50°	20.4	27.4	53.6	28.6	21.6
52.5°	14.0	15.7	36.7	16.3	14.6
55°	10.5	11.1	19.8	11.7	11.1
57.5°	8.2	8.7	10.5	8.7	8.2
60°	6.4	6.4	7.6	7.0	6.4
62.5°	4.7	4.7	5.2	4.7	4.7
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.2	1.2	1.2	1.7
72.5°	1.2	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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