

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: P749153

Luminaire Tested: LD4D50D010-EU4DR3040509050-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749153
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-EU4DR3040509050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4053.4 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

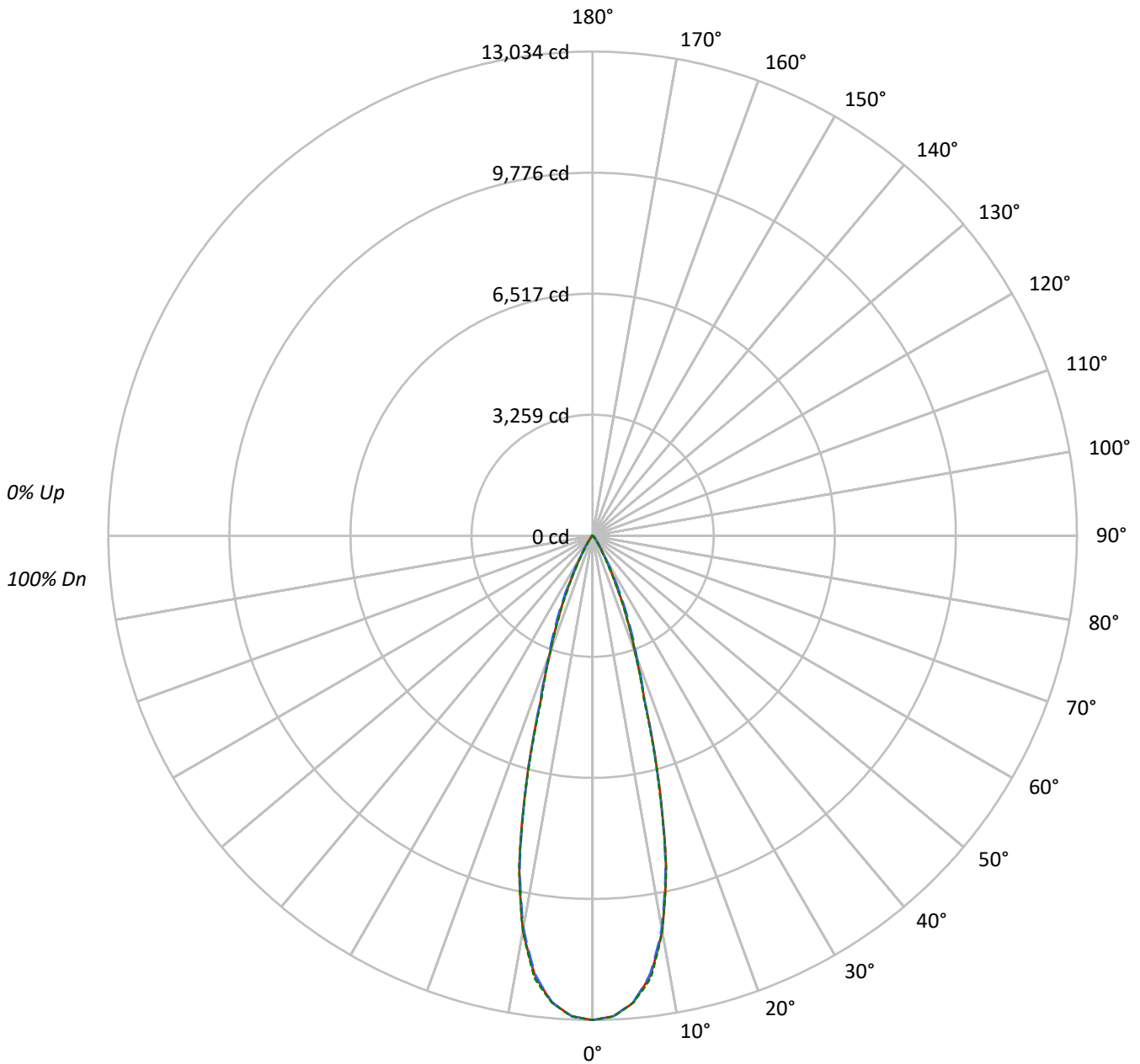
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	997636	997636	997636
5°	968991	967862	969045
10°	839297	833374	839095
15°	547597	544657	541923
20°	272299	282513	271932
25°	137165	154673	134353
30°	54913	59836	47851
35°	25472	24398	20445
40°	11001	12210	10362
45°	7761	9623	7826
50°	2667	7014	2822
55°	1535	2909	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°	1146.1	28.3
10°-20°	1845.8	45.5
20°-30°	797.6	19.7
30°-40°	181.8	4.5
40°-50°	62.4	1.5
50°-60°	15.3	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°	3789.5	93.5
0°-40°	3971.3	98.0
0°-60°	4049.0	99.9
0°-90°	4053.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4053.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13034	13034	13034	13034	13034	
5°	12611	12599	12596	12623	12612	1147
15°	6910	6827	6873	6851	6839	1850
25°	1624	1686	1831	1643	1591	777
35°	273	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°	13033.6	13033.6	13033.6	13033.6	13033.6
2.5°	12947.2	12938.2	12943.3	12949.7	12952.3
5°	12611.2	12599.1	12596.5	12622.7	12611.9
7.5°	11933.6	11916.3	11890.1	11949.6	12005.2
10°	10798.4	10779.2	10722.2	10750.4	10795.8
12.5°	9122.5	9060.4	9059.1	9148.7	9136.5
15°	6910.3	6827.1	6873.2	6850.8	6838.7
17.5°	4647.0	4615.0	4676.4	4657.9	4577.9
20°	3342.9	3351.2	3468.3	3409.4	3338.4
22.5°	2439.3	2469.4	2608.2	2456.6	2400.9
25°	1624.1	1685.5	1831.4	1642.6	1590.8
27.5°	998.9	1027.0	1174.9	986.1	957.9
30°	621.3	607.3	677.0	581.0	541.4
32.5°	407.6	389.7	412.1	369.9	337.9
35°	272.6	278.4	261.1	259.2	218.8
37.5°	170.2	195.8	172.8	184.3	140.8
40°	110.1	142.1	122.2	135.0	103.7
42.5°	90.2	109.4	100.5	106.9	92.1
45°	71.7	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	31.4	23.7
52.5°	15.4	17.3	40.3	17.9	16.0
55°	11.5	12.2	21.8	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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