

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: P749089

Luminaire Tested: LD4D50D010-EU4DR3040509024-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749089
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-EU4DR3040509024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4049.6 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

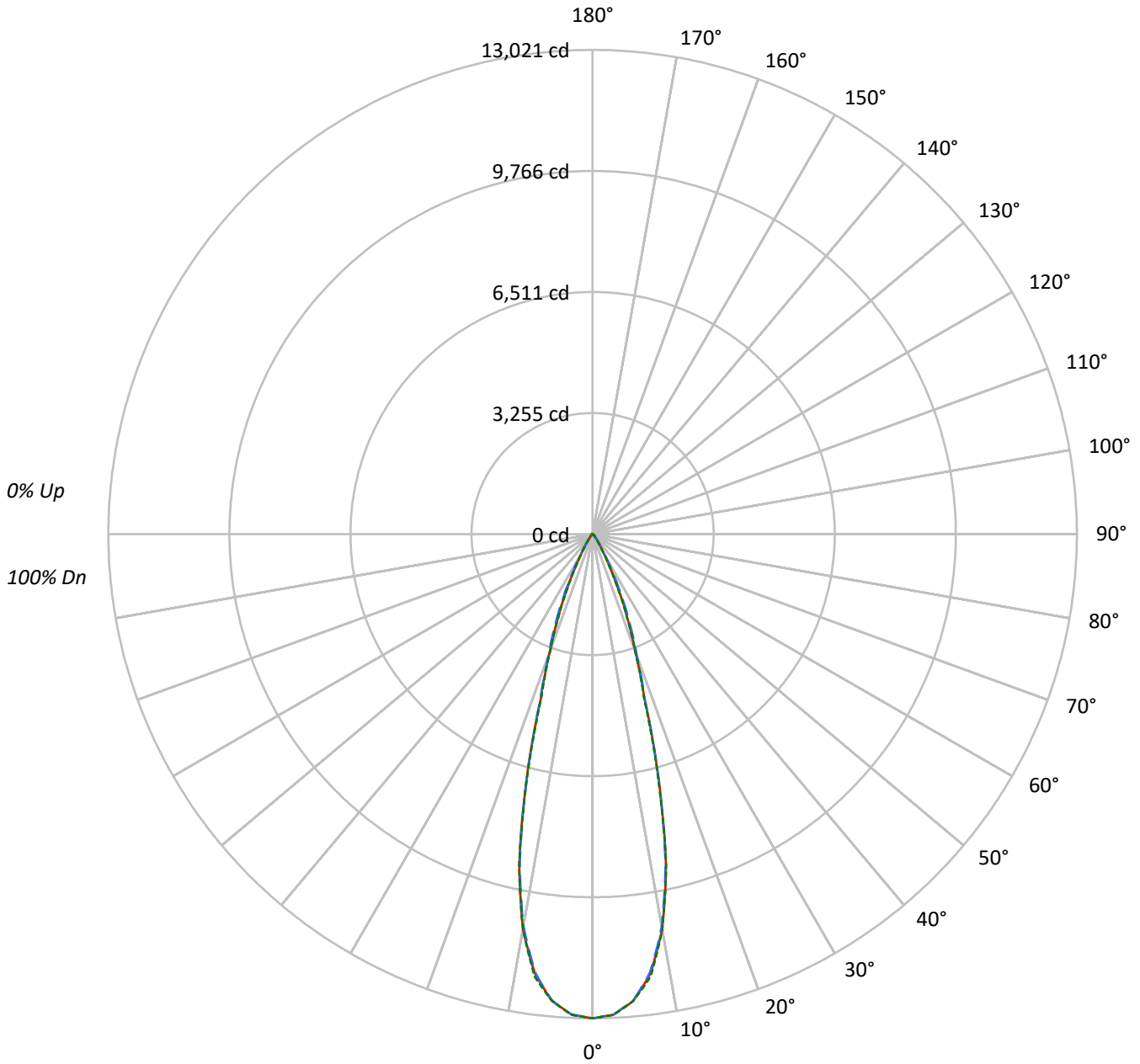
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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						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°	996702	996702	996702
5°	968085	966955	968139
10°	838512	832597	838310
15°	547082	544150	541408
20°	272038	282244	271679
25°	137039	154530	134226
30°	54869	59783	47807
35°	25444	24370	20426
40°	10991	12200	10352
45°	7751	9623	7816
50°	2667	7002	2822
55°	1535	2896	1615
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°	1145.0	28.3
10°-20°	1844.1	45.5
20°-30°	796.9	19.7
30°-40°	181.6	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°	3786.0	93.5
0°-40°	3967.6	98.0
0°-60°	4045.2	99.9
0°-90°	4049.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4049.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13021	13021	13021	13021	13021	
5°	12599	12587	12585	12611	12600	1146
15°	6904	6821	6867	6844	6832	1849
25°	1623	1684	1830	1641	1589	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°	13021.4	13021.4	13021.4	13021.4	13021.4
2.5°	12935.0	12926.1	12931.2	12937.6	12940.2
5°	12599.4	12587.3	12584.7	12610.9	12600.1
7.5°	11922.4	11905.1	11878.9	11938.4	11994.0
10°	10788.3	10769.1	10712.2	10740.3	10785.7
12.5°	9113.9	9051.9	9050.6	9140.1	9128.0
15°	6903.8	6820.7	6866.8	6844.4	6832.2
17.5°	4642.6	4610.7	4672.0	4653.5	4573.6
20°	3339.7	3348.0	3465.0	3406.2	3335.3
22.5°	2437.0	2467.1	2605.8	2454.3	2398.7
25°	1622.6	1683.9	1829.7	1641.1	1589.3
27.5°	998.0	1026.1	1173.8	985.2	957.0
30°	620.8	606.7	676.4	580.5	540.9
32.5°	407.2	389.3	411.7	369.5	337.6
35°	272.3	278.1	260.8	258.9	218.6
37.5°	170.1	195.6	172.6	184.1	140.6
40°	110.0	141.9	122.1	134.9	103.6
42.5°	90.1	109.3	100.4	106.8	92.1
45°	71.6	88.9	88.9	88.9	72.2
47.5°	39.6	59.5	76.1	60.7	42.2
50°	22.4	30.0	58.8	31.3	23.7
52.5°	15.3	17.3	40.3	17.9	16.0
55°	11.5	12.1	21.7	12.8	12.1
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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