

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: P747596

Luminaire Tested: LD4D40BD010-EU4DR3040509050-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747596
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: LD4D40BD010-EU4DR3040509050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3491.2 lumens
Efficiency: N/A
Efficacy: 99.2 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

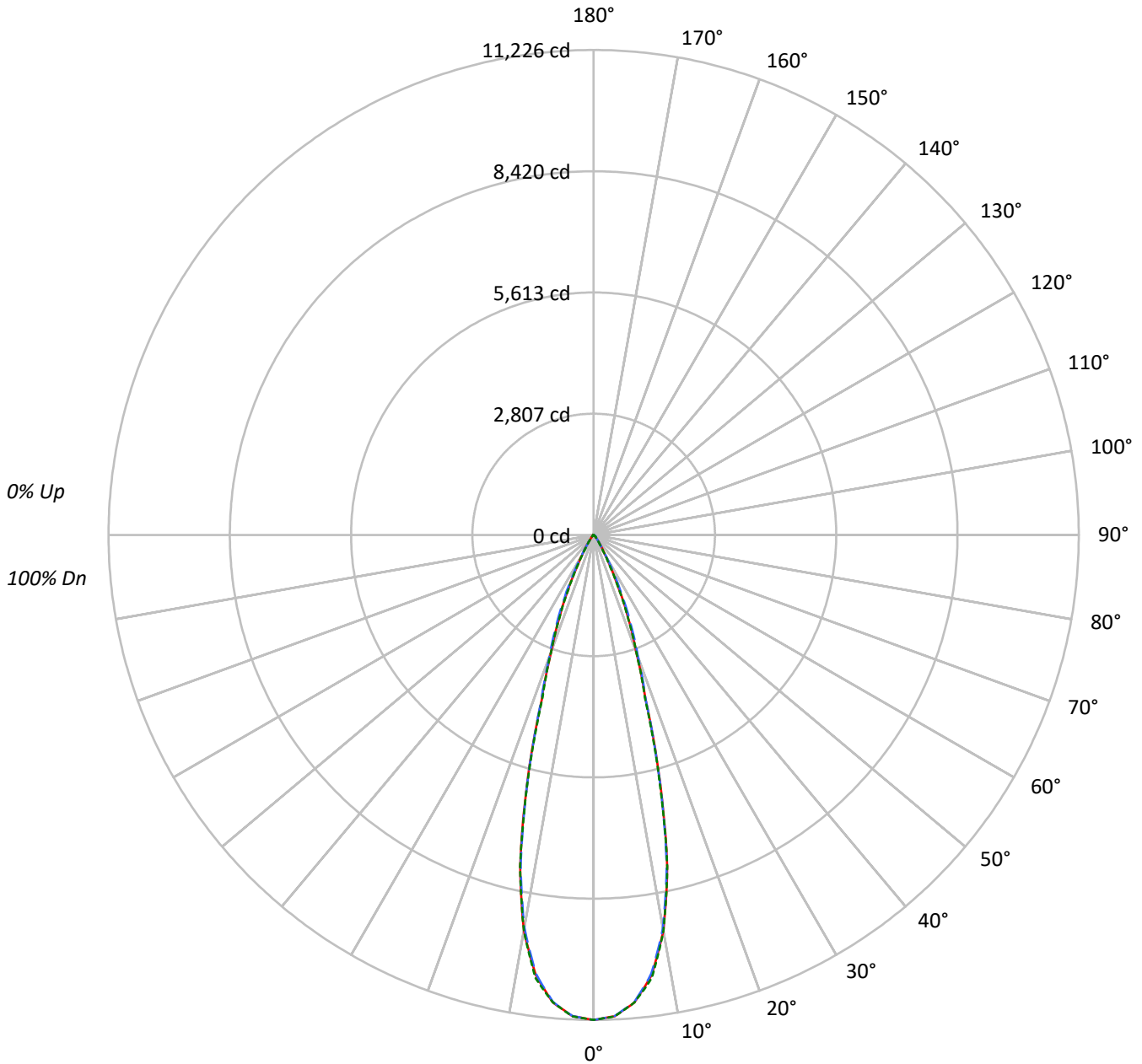
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	859269	859269	859269
5°	834606	833630	834644
10°	722889	717791	722718
15°	471650	469122	466760
20°	234527	243333	234218
25°	118137	133221	115722
30°	47303	51537	41214
35°	21940	21015	17614
40°	9472	10522	8923
45°	6679	8292	6744
50°	2298	6037	2429
55°	1321	2496	1401
60°	934	1102	934
65°	598	598	598
70°	380	246	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: 8292 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	987.1	28.3
10°-20°	1589.8	45.5
20°-30°	687.0	19.7
30°-40°	156.6	4.5
40°-50°	53.8	1.5
50°-60°	13.1	0.4
60°-70°	3.4	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°	3264.0	93.5
0°-40°	3420.6	98.0
0°-60°	3487.4	99.9
0°-90°	3491.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3491.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11226	11226	11226	11226	11226	
5°	10862	10852	10850	10872	10863	988
15°	5952	5880	5920	5901	5890	1594
25°	1399	1452	1577	1415	1370	670
35°	235	240	225	223	188	159
45°	62	77	77	77	62	44
55°	10	10	19	11	10	10
65°	3	3	3	3	3	3
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°	11225.9	11225.9	11225.9	11225.9	11225.9
2.5°	11151.5	11143.8	11148.2	11153.7	11155.9
5°	10862.2	10851.7	10849.5	10872.1	10862.7
7.5°	10278.5	10263.6	10241.0	10292.3	10340.2
10°	9300.7	9284.2	9235.1	9259.4	9298.5
12.5°	7857.3	7803.8	7802.7	7879.9	7869.4
15°	5951.9	5880.3	5920.0	5900.7	5890.2
17.5°	4002.5	3974.9	4027.8	4011.9	3943.0
20°	2879.2	2886.4	2987.3	2936.6	2875.4
22.5°	2101.0	2126.9	2246.5	2115.9	2067.9
25°	1398.8	1451.7	1577.4	1414.8	1370.2
27.5°	860.4	884.6	1011.9	849.3	825.1
30°	535.2	523.0	583.1	500.4	466.3
32.5°	351.1	335.7	354.9	318.6	291.0
35°	234.8	239.8	224.9	223.2	188.5
37.5°	146.6	168.7	148.8	158.7	121.3
40°	94.8	122.4	105.3	116.3	89.3
42.5°	77.7	94.2	86.5	92.0	79.4
45°	61.7	76.6	76.6	76.6	62.3
47.5°	34.2	51.3	65.6	52.4	36.4
50°	19.3	25.9	50.7	27.0	20.4
52.5°	13.2	14.9	34.7	15.4	13.8
55°	9.9	10.5	18.7	11.0	10.5
57.5°	7.7	8.3	9.9	8.3	7.7
60°	6.1	6.1	7.2	6.6	6.1
62.5°	4.4	4.4	5.0	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.7	2.2	2.2	2.2	2.2
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	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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