

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: P747593

Luminaire Tested: LD4D40BD010-EU4DR3040509050-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747593
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-EU4DR3040509050-4LBDP1B
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: 3150.9 lumens
Efficiency: N/A
Efficacy: 89.5 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

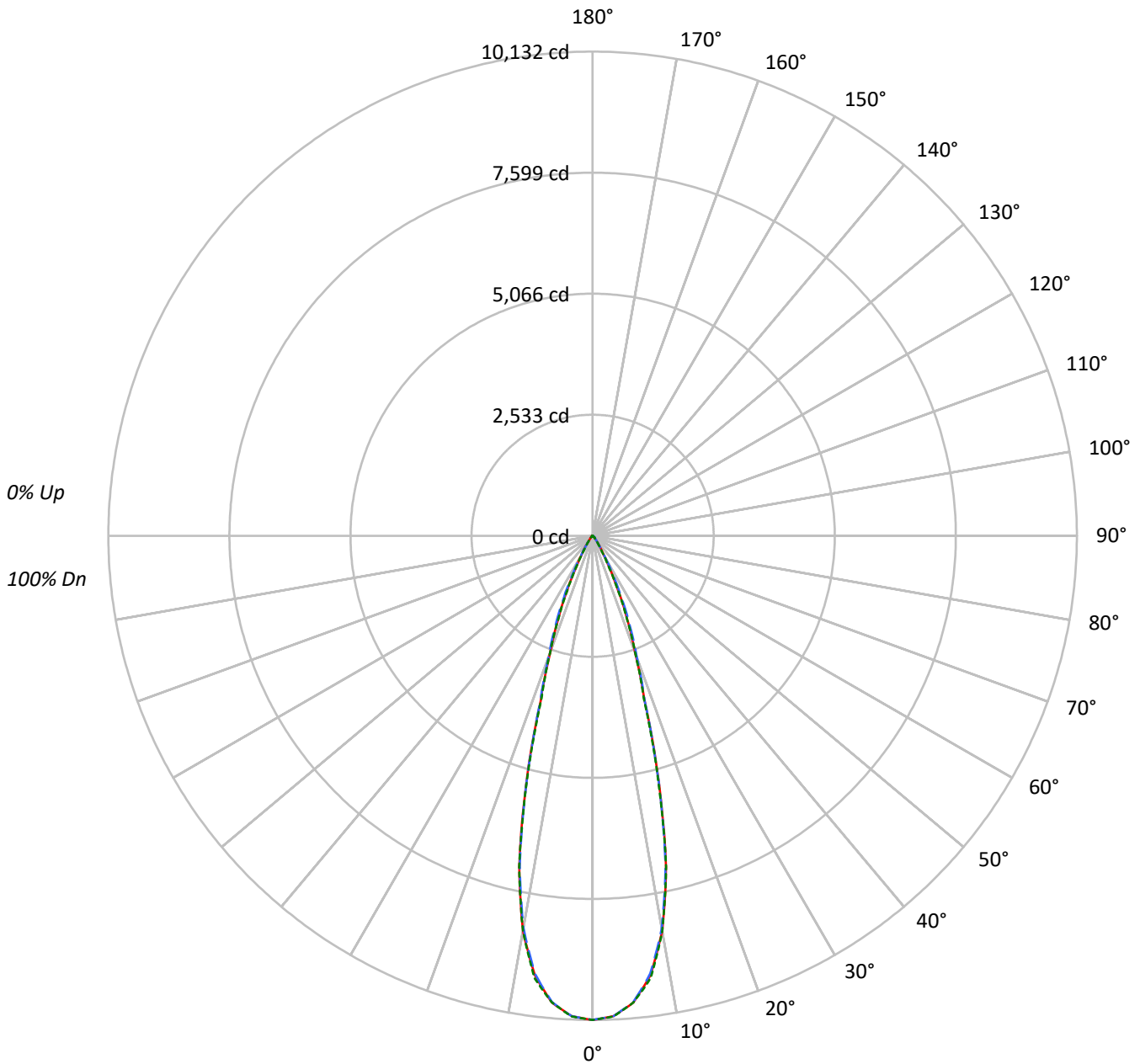
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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																			
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°	775499	775499	775499
5°	753237	752361	753275
10°	652417	647816	652269
15°	425673	423382	421259
20°	211663	219605	211386
25°	106626	120232	104439
30°	42690	46517	37192
35°	19800	18959	15895
40°	8553	9492	8054
45°	6029	7480	6084
50°	2072	5454	2191
55°	1201	2255	1268
60°	842	995	842
65°	543	543	543
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7480 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.9	28.3
10°-20°	1434.8	45.5
20°-30°	620.0	19.7
30°-40°	141.3	4.5
40°-50°	48.5	1.5
50°-60°	11.9	0.4
60°-70°	3.1	0.1
70°-80°	0.3	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°	2945.8	93.5
0°-40°	3087.1	98.0
0°-60°	3147.5	99.9
0°-90°	3150.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3150.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10132	10132	10132	10132	10132	
5°	9803	9794	9792	9812	9804	892
15°	5372	5307	5343	5325	5316	1438
25°	1262	1310	1424	1277	1237	604
35°	212	216	203	202	170	144
45°	56	69	69	69	56	40
55°	9	10	17	10	10	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	10131.5	10131.5	10131.5	10131.5	10131.5
2.5°	10064.4	10057.4	10061.4	10066.4	10068.4
5°	9803.2	9793.8	9791.8	9812.2	9803.7
7.5°	9276.5	9263.0	9242.6	9288.9	9332.2
10°	8394.0	8379.1	8334.8	8356.7	8392.1
12.5°	7091.3	7043.0	7042.0	7111.7	7102.2
15°	5371.7	5307.0	5342.8	5325.4	5316.0
17.5°	3612.3	3587.4	3635.2	3620.8	3558.6
20°	2598.5	2605.0	2696.0	2650.3	2595.1
22.5°	1896.2	1919.6	2027.5	1909.6	1866.3
25°	1262.5	1310.2	1423.6	1276.9	1236.6
27.5°	776.5	798.4	913.3	766.5	744.6
30°	483.0	472.1	526.3	451.7	420.8
32.5°	316.9	302.9	320.3	287.5	262.6
35°	211.9	216.4	202.9	201.5	170.1
37.5°	132.3	152.2	134.3	143.3	109.4
40°	85.6	110.4	95.0	105.0	80.6
42.5°	70.1	85.1	78.1	83.1	71.6
45°	55.7	69.1	69.1	69.1	56.2
47.5°	30.8	46.3	59.2	47.3	32.8
50°	17.4	23.4	45.8	24.4	18.4
52.5°	11.9	13.4	31.3	13.9	12.4
55°	9.0	9.5	16.9	9.9	9.5
57.5°	7.0	7.5	9.0	7.5	7.0
60°	5.5	5.5	6.5	6.0	5.5
62.5°	4.0	4.0	4.5	4.0	4.0
65°	3.0	3.0	3.0	3.0	3.0
67.5°	1.5	2.0	2.0	2.0	2.0
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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