

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: P747530

Luminaire Tested: LD4D40BD010-EU4DR3040509024-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747530
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-EU4DR3040509024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 3305.3 lumens
Efficiency: N/A
Efficacy: 93.9 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

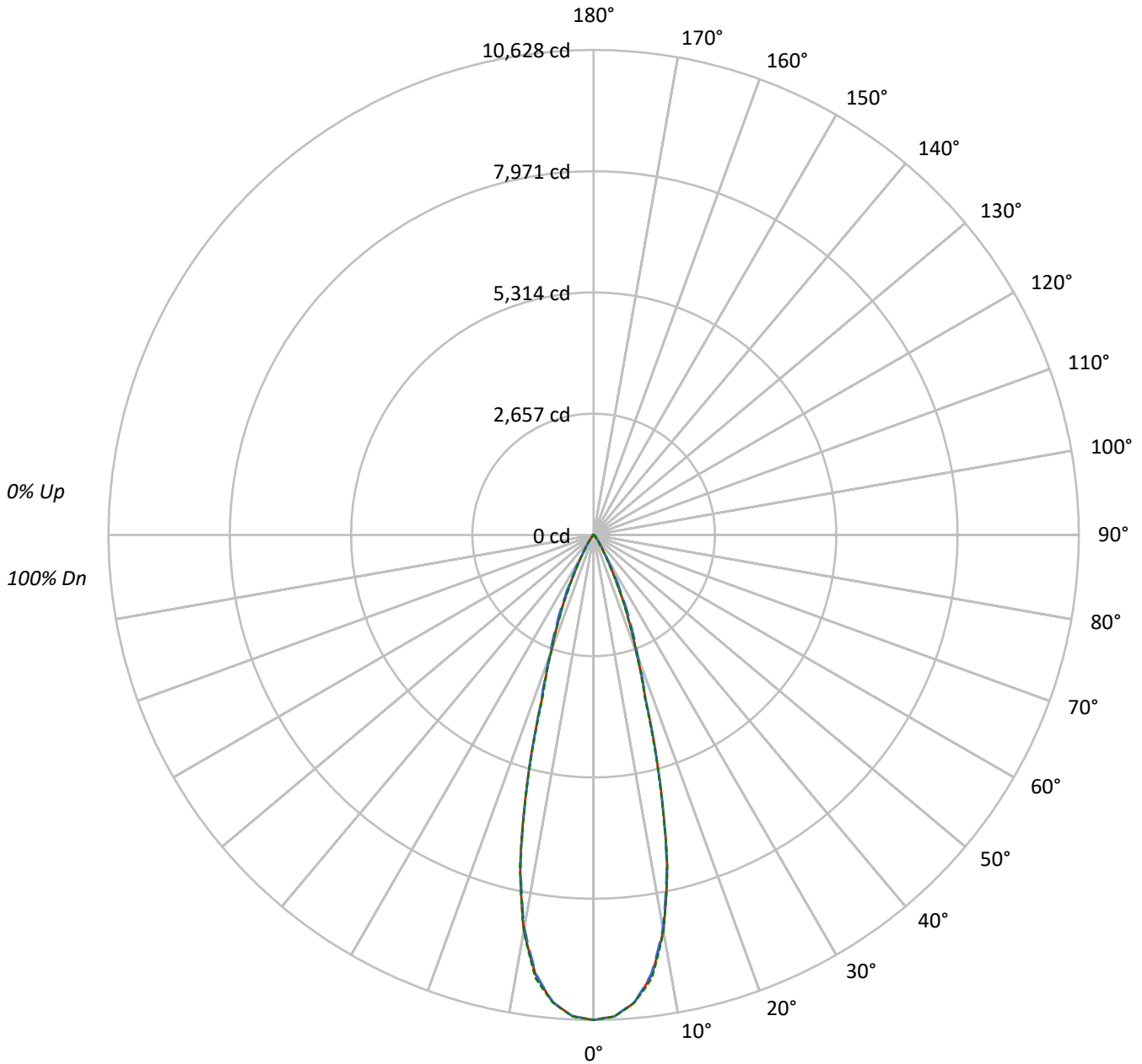
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	813519	813519	813519
5°	790164	789242	790202
10°	684400	679574	684237
15°	446537	444136	441902
20°	222040	230373	221747
25°	111845	126127	109557
30°	44785	48797	39013
35°	20772	19894	16679
40°	8973	9962	8443
45°	6322	7848	6387
50°	2179	5716	2298
55°	1254	2362	1321
60°	873	1041	873
65°	561	561	561
70°	358	224	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7848 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	934.6	28.3
10°-20°	1505.2	45.5
20°-30°	650.4	19.7
30°-40°	148.2	4.5
40°-50°	50.9	1.5
50°-60°	12.4	0.4
60°-70°	3.2	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°	3090.2	93.5
0°-40°	3238.4	98.0
0°-60°	3301.7	99.9
0°-90°	3305.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3305.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10628	10628	10628	10628	10628	
5°	10284	10274	10272	10293	10284	935
15°	5635	5567	5605	5586	5576	1509
25°	1324	1374	1493	1340	1297	634
35°	222	227	213	211	178	151
45°	58	72	72	72	59	41
55°	9	10	18	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°	10628.2	10628.2	10628.2	10628.2	10628.2
2.5°	10557.7	10550.4	10554.6	10559.8	10561.9
5°	10283.8	10273.9	10271.8	10293.2	10284.3
7.5°	9731.2	9717.1	9695.7	9744.2	9789.6
10°	8805.5	8789.8	8743.4	8766.4	8803.4
12.5°	7438.9	7388.3	7387.2	7460.3	7450.4
15°	5635.0	5567.2	5604.7	5586.5	5576.5
17.5°	3789.4	3763.3	3813.4	3798.2	3733.0
20°	2725.9	2732.7	2828.2	2780.2	2722.3
22.5°	1989.1	2013.7	2126.9	2003.2	1957.8
25°	1324.3	1374.4	1493.4	1339.5	1297.2
27.5°	814.5	837.5	958.0	804.1	781.1
30°	506.7	495.2	552.1	473.8	441.4
32.5°	332.4	317.8	336.0	301.6	275.5
35°	222.3	227.0	212.9	211.3	178.5
37.5°	138.8	159.7	140.9	150.3	114.8
40°	89.8	115.8	99.7	110.1	84.5
42.5°	73.6	89.2	81.9	87.1	75.1
45°	58.4	72.5	72.5	72.5	59.0
47.5°	32.4	48.5	62.1	49.6	34.4
50°	18.3	24.5	48.0	25.6	19.3
52.5°	12.5	14.1	32.9	14.6	13.0
55°	9.4	9.9	17.7	10.4	9.9
57.5°	7.3	7.8	9.4	7.8	7.3
60°	5.7	5.7	6.8	6.3	5.7
62.5°	4.2	4.2	4.7	4.2	4.2
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.0	1.0	1.0	1.6
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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