

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: P747560

Luminaire Tested: LD4D40BD010-EU4DR3040509030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747560
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-EU4DR3040509030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4060.3 lumens
Efficiency: N/A
Efficacy: 115.4 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

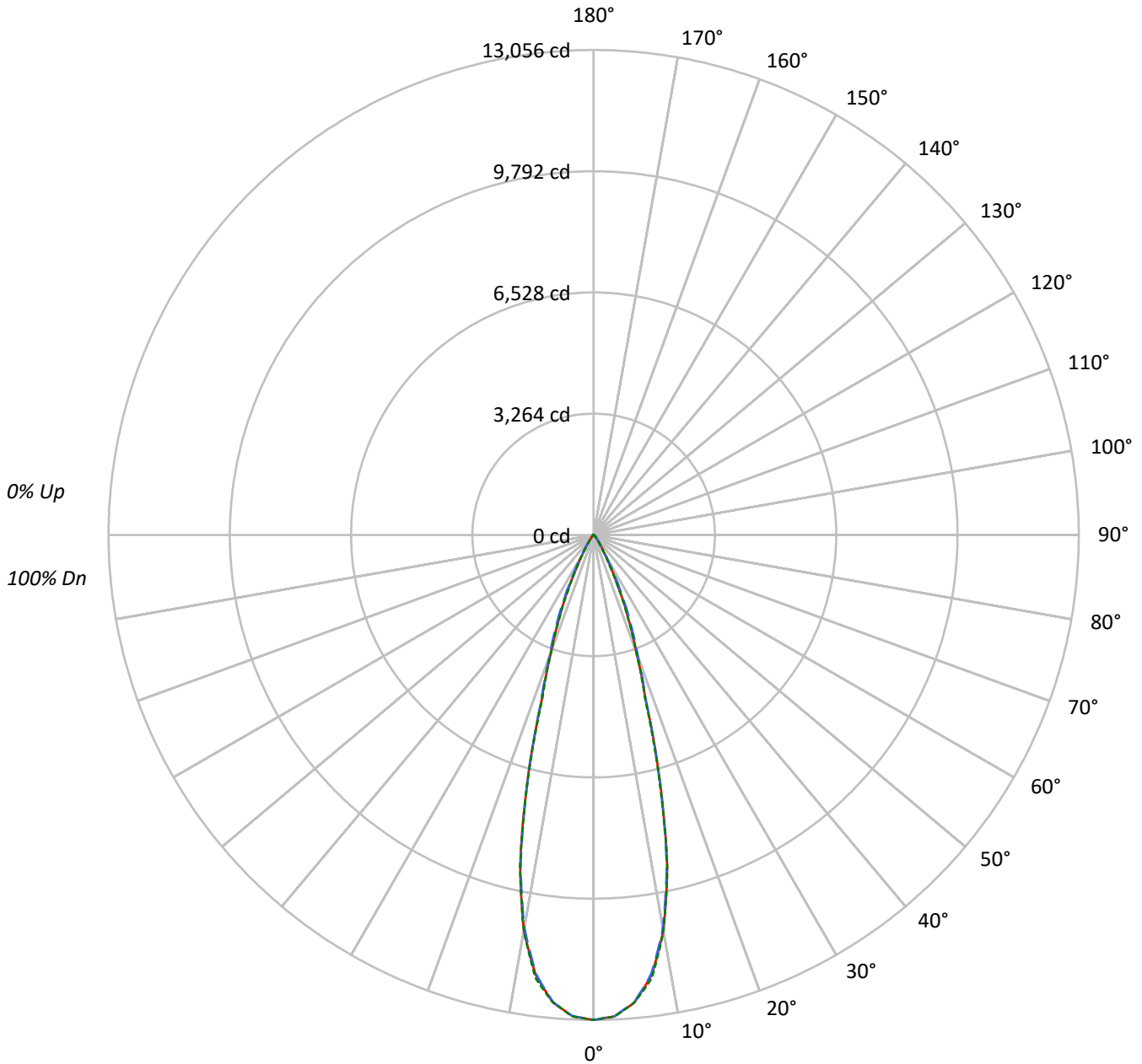
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	999351	999351	999351
5°	970659	969529	970713
10°	840743	834812	840541
15°	548540	545592	542850
20°	272763	282994	272396
25°	137402	154944	134581
30°	55011	59943	47931
35°	25519	24435	20483
40°	11021	12230	10372
45°	7772	9645	7837
50°	2667	7026	2822
55°	1535	2909	1628
60°	1087	1271	1087
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: 9645 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1148.1	28.3
10°-20°	1849.0	45.5
20°-30°	799.0	19.7
30°-40°	182.1	4.5
40°-50°	62.5	1.5
50°-60°	15.3	0.4
60°-70°	4.0	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°	3796.1	93.5
0°-40°	3978.2	98.0
0°-60°	4056.0	99.9
0°-90°	4060.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4060.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13056	13056	13056	13056	13056	
5°	12633	12621	12618	12644	12634	1149
15°	6922	6839	6885	6863	6850	1854
25°	1627	1688	1835	1646	1594	779
35°	273	279	262	260	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°	13056.0	13056.0	13056.0	13056.0	13056.0
2.5°	12969.5	12960.5	12965.6	12972.0	12974.6
5°	12632.9	12620.8	12618.2	12644.5	12633.6
7.5°	11954.1	11936.8	11910.5	11970.1	12025.9
10°	10817.0	10797.7	10740.7	10768.9	10814.4
12.5°	9138.2	9076.0	9074.7	9164.5	9152.3
15°	6922.2	6838.9	6885.0	6862.6	6850.4
17.5°	4655.0	4622.9	4684.5	4665.9	4585.8
20°	3348.6	3356.9	3474.2	3415.3	3344.1
22.5°	2443.5	2473.6	2612.7	2460.8	2405.1
25°	1626.9	1688.4	1834.6	1645.5	1593.5
27.5°	1000.6	1028.8	1176.9	987.8	959.6
30°	622.4	608.3	678.2	582.0	542.3
32.5°	408.3	390.4	412.8	370.5	338.5
35°	273.1	278.8	261.5	259.6	219.2
37.5°	170.5	196.1	173.1	184.6	141.0
40°	110.3	142.3	122.4	135.3	103.8
42.5°	90.4	109.6	100.6	107.0	92.3
45°	71.8	89.1	89.1	89.1	72.4
47.5°	39.7	59.6	76.3	60.9	42.3
50°	22.4	30.1	59.0	31.4	23.7
52.5°	15.4	17.3	40.4	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°	7.1	7.1	8.3	7.7	7.1
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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