

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: P747599

Luminaire Tested: LD4D40BD010-EU4DR3040509050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747599
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-EU4DR3040509050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4325.6 lumens
Efficiency: N/A
Efficacy: 122.9 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

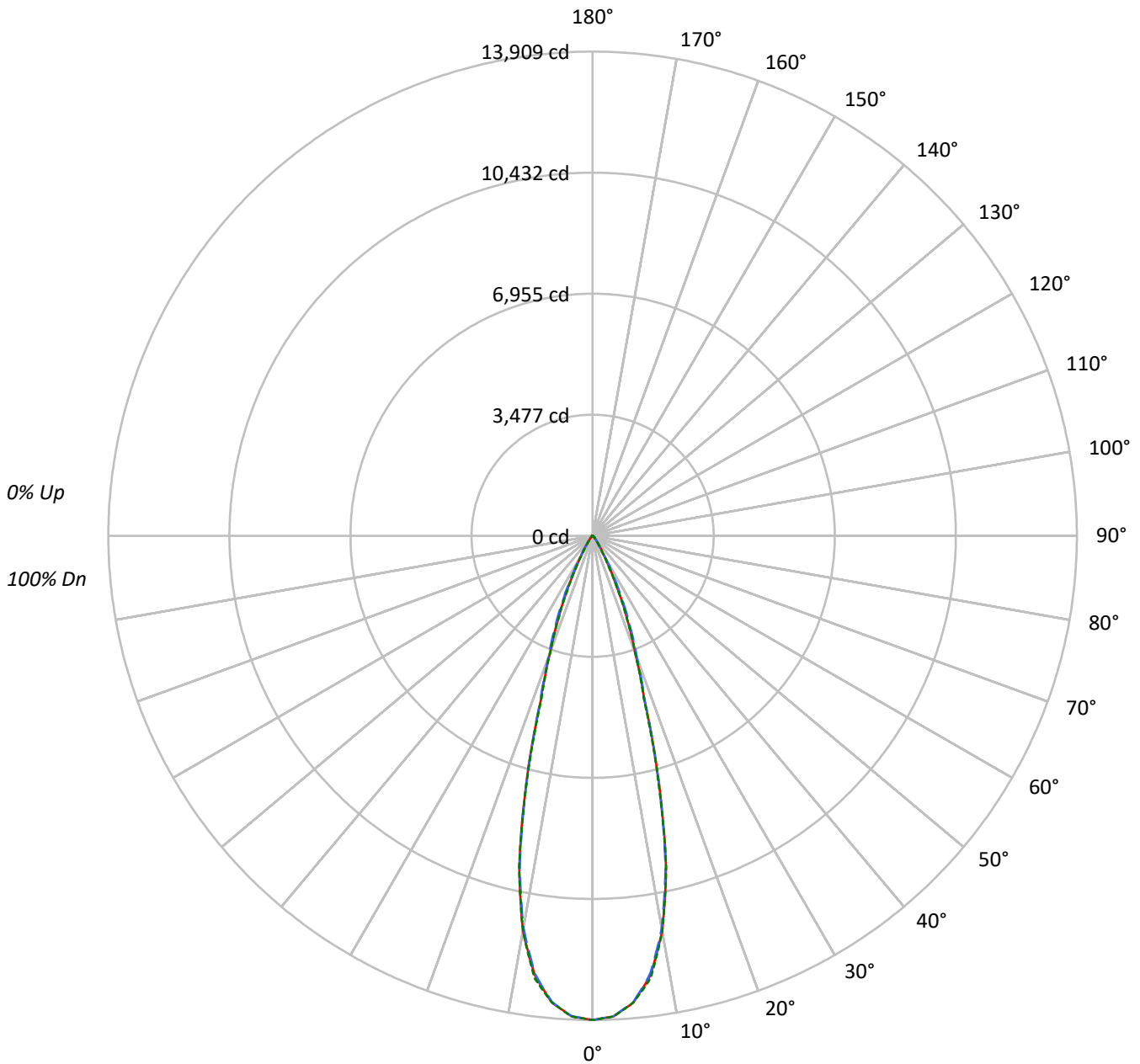
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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					70					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°	1064642	1064642	1064642
5°	1034079	1032873	1034133
10°	895670	889351	895453
15°	584382	581244	578319
20°	290585	301484	290194
25°	146380	165061	143381
30°	58608	63858	51060
35°	27182	26033	21819
40°	11741	13030	11051
45°	8281	10273	8357
50°	2846	7478	3013
55°	1641	3096	1735
60°	1148	1362	1148
65°	743	743	743
70°	448	313	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10273 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1223.1	28.3
10°-20°	1969.8	45.5
20°-30°	851.2	19.7
30°-40°	194.0	4.5
40°-50°	66.6	1.5
50°-60°	16.3	0.4
60°-70°	4.2	0.1
70°-80°	0.5	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°	4044.1	93.5
0°-40°	4238.1	98.0
0°-60°	4321.0	99.9
0°-90°	4325.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4325.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13909	13909	13909	13909	13909	
5°	13458	13445	13443	13471	13459	1224
15°	7374	7286	7335	7311	7298	1975
25°	1733	1799	1954	1753	1698	830
35°	291	297	279	277	234	197
45°	76	95	95	95	77	54
55°	12	13	23	14	13	12
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°	13909.0	13909.0	13909.0	13909.0	13909.0
2.5°	13816.8	13807.2	13812.7	13819.5	13822.3
5°	13458.3	13445.3	13442.6	13470.6	13459.0
7.5°	12735.1	12716.7	12688.7	12752.2	12811.6
10°	11523.7	11503.2	11442.4	11472.5	11520.9
12.5°	9735.2	9669.0	9667.6	9763.2	9750.2
15°	7374.5	7285.7	7334.9	7311.0	7298.0
17.5°	4959.1	4925.0	4990.5	4970.7	4885.4
20°	3567.4	3576.3	3701.2	3638.4	3562.6
22.5°	2603.2	2635.3	2783.4	2621.6	2562.2
25°	1733.2	1798.7	1954.4	1753.0	1697.7
27.5°	1066.0	1096.0	1253.8	1052.3	1022.3
30°	663.1	648.1	722.5	620.1	577.7
32.5°	435.0	415.9	439.8	394.7	360.6
35°	290.9	297.1	278.6	276.6	233.5
37.5°	181.6	209.0	184.4	196.7	150.2
40°	117.5	151.6	130.4	144.1	110.6
42.5°	96.3	116.8	107.2	114.0	98.3
45°	76.5	94.9	94.9	94.9	77.2
47.5°	42.3	63.5	81.3	64.9	45.1
50°	23.9	32.1	62.8	33.5	25.3
52.5°	16.4	18.4	43.0	19.1	17.1
55°	12.3	13.0	23.2	13.7	13.0
57.5°	9.6	10.2	12.3	10.2	9.6
60°	7.5	7.5	8.9	8.2	7.5
62.5°	5.5	5.5	6.1	5.5	5.5
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.4	1.4	1.4	2.0
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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