

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: P747556

Luminaire Tested: LD4D40BD010-EU4DR3040509030-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747556
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-EU4DR3040509030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 3857.3 lumens
Efficiency: N/A
Efficacy: 109.6 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

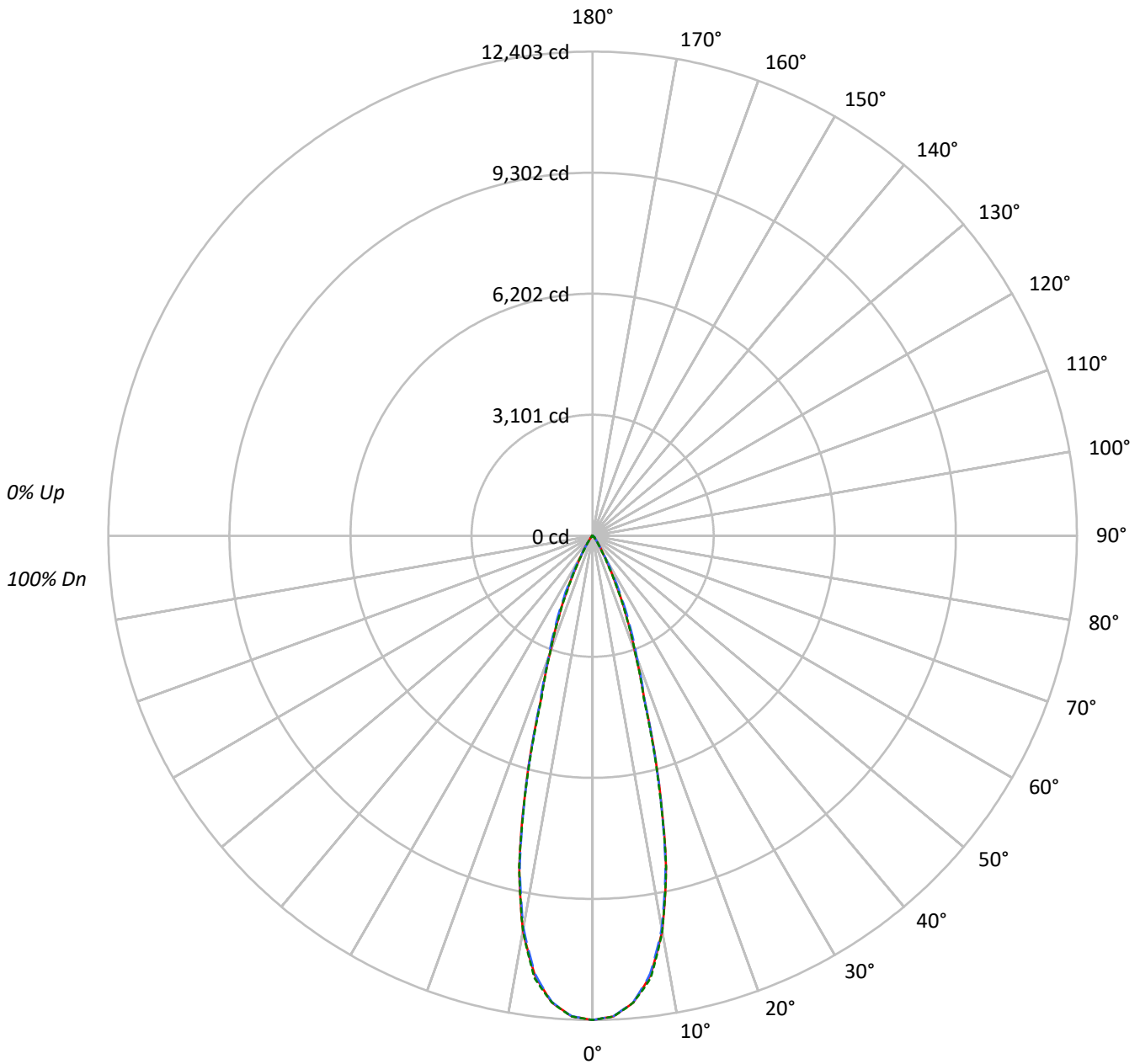
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	949383	949383	949383
5°	922129	921054	922175
10°	798702	793067	798515
15°	521114	518316	515709
20°	259127	268845	258777
25°	130527	147190	127858
30°	52262	56946	45536
35°	24239	23220	19464
40°	10462	11621	9862
45°	7383	9158	7448
50°	2536	6669	2679
55°	1468	2762	1548
60°	1026	1209	1026
65°	670	670	670
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9158 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1090.7	28.3
10°-20°	1756.5	45.5
20°-30°	759.0	19.7
30°-40°	173.0	4.5
40°-50°	59.4	1.5
50°-60°	14.5	0.4
60°-70°	3.8	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°	3606.3	93.5
0°-40°	3779.3	98.0
0°-60°	3853.2	99.9
0°-90°	3857.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3857.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12403	12403	12403	12403	12403	
5°	12001	11990	11987	12012	12002	1092
15°	6576	6497	6541	6520	6508	1761
25°	1546	1604	1743	1563	1514	740
35°	259	265	248	247	208	176
45°	68	85	85	85	69	48
55°	11	12	21	12	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°	12403.2	12403.2	12403.2	12403.2	12403.2
2.5°	12321.0	12312.5	12317.3	12323.4	12325.9
5°	12001.3	11989.7	11987.3	12012.2	12001.9
7.5°	11356.4	11340.0	11315.0	11371.6	11424.6
10°	10276.1	10257.8	10203.6	10230.4	10273.7
12.5°	8681.3	8622.2	8621.0	8706.2	8694.7
15°	6576.1	6496.9	6540.8	6519.5	6507.9
17.5°	4422.2	4391.8	4450.2	4432.6	4356.5
20°	3181.2	3189.1	3300.5	3244.5	3176.9
22.5°	2321.3	2350.0	2482.1	2337.8	2284.8
25°	1545.5	1604.0	1742.8	1563.2	1513.9
27.5°	950.6	977.4	1118.0	938.4	911.6
30°	591.3	577.9	644.3	552.9	515.2
32.5°	387.9	370.9	392.2	352.0	321.5
35°	259.4	264.9	248.5	246.6	208.3
37.5°	162.0	186.3	164.4	175.4	134.0
40°	104.7	135.2	116.3	128.5	98.7
42.5°	85.9	104.1	95.6	101.7	87.7
45°	68.2	84.6	84.6	84.6	68.8
47.5°	37.8	56.6	72.5	57.9	40.2
50°	21.3	28.6	56.0	29.8	22.5
52.5°	14.6	16.4	38.4	17.1	15.2
55°	11.0	11.6	20.7	12.2	11.6
57.5°	8.5	9.1	11.0	9.1	8.5
60°	6.7	6.7	7.9	7.3	6.7
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	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

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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