

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: P746767

Luminaire Tested: LD4D35BD010-EU4DR3020359027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746767
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: LD4D35BD010-EU4DR3020359027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3348.0 lumens
Efficiency: N/A
Efficacy: 108.7 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

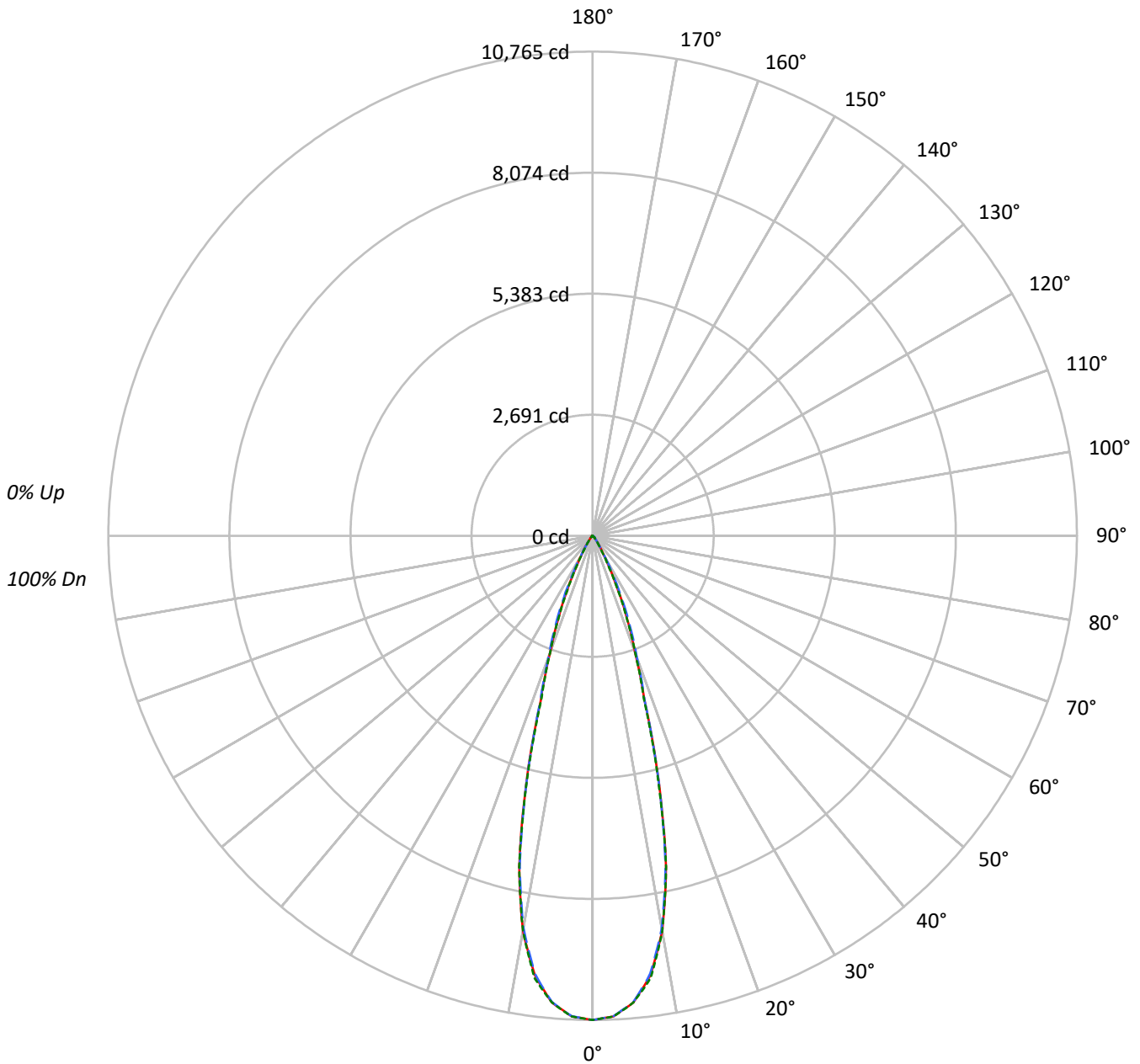
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	824013	824013	824013
5°	800360	799422	800398
10°	693230	688341	693067
15°	452298	449874	447607
20°	224908	233346	224606
25°	113290	127757	110976
30°	45359	49425	39517
35°	21043	20146	16894
40°	9083	10092	8553
45°	6408	7956	6462
50°	2203	5787	2334
55°	1268	2402	1334
60°	888	1056	888
65°	580	580	580
70°	358	246	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: 7956 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	946.6	28.3
10°-20°	1524.6	45.5
20°-30°	658.8	19.7
30°-40°	150.2	4.5
40°-50°	51.6	1.5
50°-60°	12.6	0.4
60°-70°	3.3	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°	3130.0	93.5
0°-40°	3280.2	98.0
0°-60°	3344.4	99.9
0°-90°	3348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10765	10765	10765	10765	10765	
5°	10416	10406	10404	10426	10417	947
15°	5708	5639	5677	5659	5648	1528
25°	1341	1392	1513	1357	1314	642
35°	225	230	216	214	181	153
45°	59	74	74	74	60	42
55°	10	10	18	11	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°	10765.3	10765.3	10765.3	10765.3	10765.3
2.5°	10694.0	10686.6	10690.8	10696.1	10698.2
5°	10416.5	10406.4	10404.3	10426.0	10417.0
7.5°	9856.8	9842.5	9820.8	9870.0	9916.0
10°	8919.1	8903.3	8856.2	8879.5	8917.0
12.5°	7534.9	7483.6	7482.6	7556.5	7546.5
15°	5707.7	5639.0	5677.1	5658.6	5648.5
17.5°	3838.3	3811.8	3862.6	3847.2	3781.2
20°	2761.1	2768.0	2864.7	2816.1	2757.4
22.5°	2014.8	2039.6	2154.3	2029.1	1983.1
25°	1341.4	1392.2	1512.7	1356.8	1314.0
27.5°	825.1	848.3	970.4	814.5	791.2
30°	513.2	501.6	559.2	479.9	447.1
32.5°	336.7	321.9	340.4	305.5	279.1
35°	225.2	229.9	215.6	214.1	180.8
37.5°	140.6	161.7	142.7	152.2	116.3
40°	90.9	117.3	101.0	111.5	85.6
42.5°	74.5	90.4	83.0	88.3	76.1
45°	59.2	73.5	73.5	73.5	59.7
47.5°	32.8	49.2	62.9	50.2	34.9
50°	18.5	24.8	48.6	25.9	19.6
52.5°	12.7	14.3	33.3	14.8	13.2
55°	9.5	10.0	18.0	10.6	10.0
57.5°	7.4	7.9	9.5	7.9	7.4
60°	5.8	5.8	6.9	6.3	5.8
62.5°	4.2	4.2	4.8	4.2	4.2
65°	3.2	3.2	3.2	3.2	3.2
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	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

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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