

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: P746789

Luminaire Tested: LD4D35BD010-EU4DR3020359035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746789
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-EU4DR3020359035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3311.2 lumens
Efficiency: N/A
Efficacy: 107.5 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

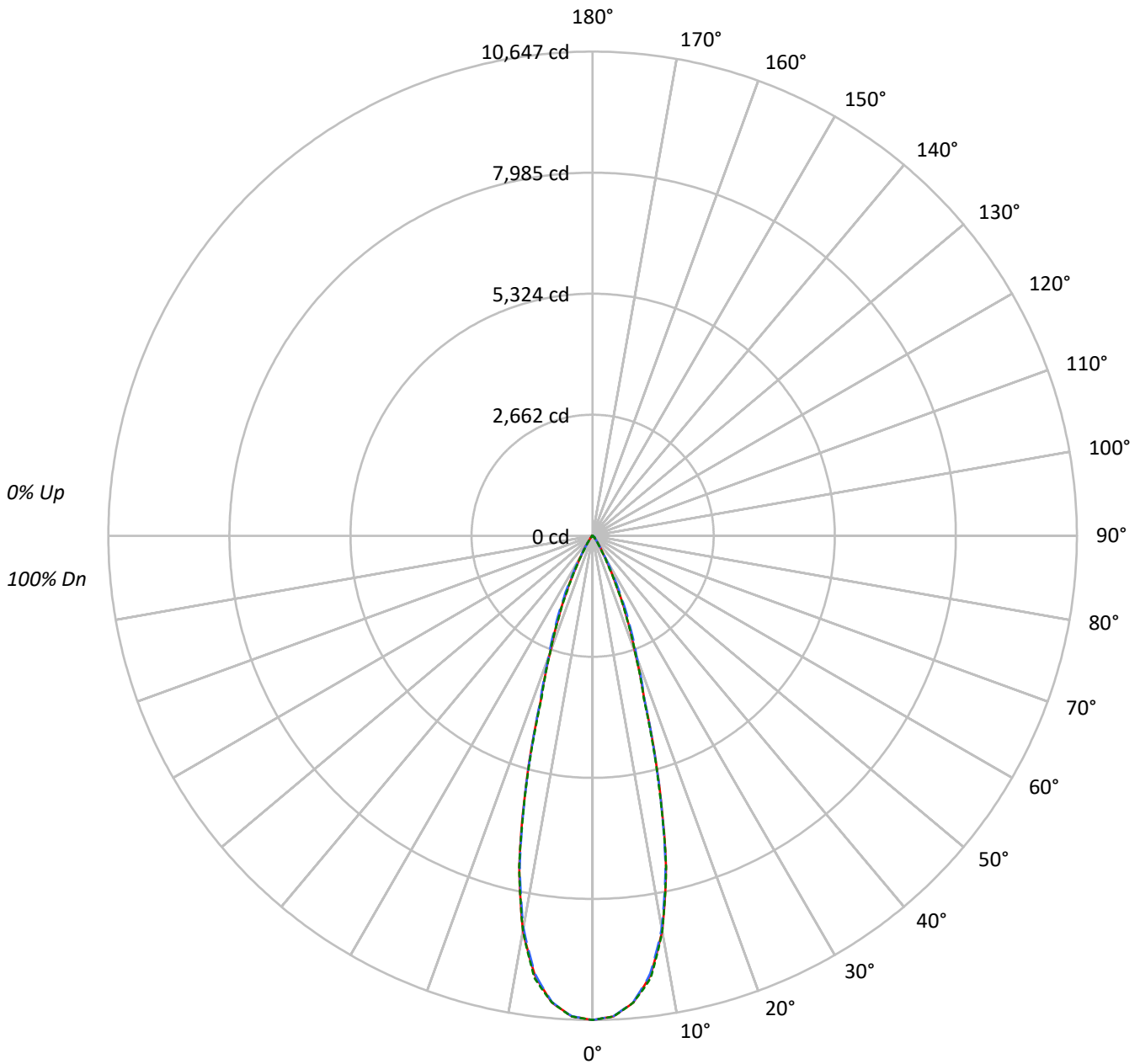


Downlight

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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°	814965	814965	814965
5°	791570	790648	791608
10°	685621	680786	685458
15°	447330	444929	442694
20°	222439	230781	222138
25°	112048	126355	109751
30°	44864	48886	39084
35°	20810	19931	16707
40°	8983	9972	8463
45°	6333	7870	6397
50°	2179	5728	2298
55°	1254	2375	1321
60°	888	1041	888
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: 7870 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	936.3	28.3
10°-20°	1507.8	45.5
20°-30°	651.6	19.7
30°-40°	148.5	4.5
40°-50°	51.0	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°	3095.7	93.5
0°-40°	3244.2	98.0
0°-60°	3307.6	99.9
0°-90°	3311.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3311.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10647	10647	10647	10647	10647	
5°	10302	10292	10290	10312	10303	937
15°	5645	5577	5615	5596	5586	1512
25°	1327	1377	1496	1342	1300	635
35°	223	227	213	212	179	151
45°	58	73	73	73	59	42
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°	10647.1	10647.1	10647.1	10647.1	10647.1
2.5°	10576.5	10569.2	10573.4	10578.6	10580.7
5°	10302.1	10292.2	10290.1	10311.5	10302.6
7.5°	9748.5	9734.4	9713.0	9761.6	9807.1
10°	8821.2	8805.5	8759.0	8782.0	8819.1
12.5°	7452.1	7401.4	7400.4	7473.6	7463.6
15°	5645.0	5577.1	5614.7	5596.4	5586.5
17.5°	3796.1	3770.0	3820.2	3805.0	3739.7
20°	2730.8	2737.6	2833.2	2785.1	2727.1
22.5°	1992.7	2017.2	2130.7	2006.8	1961.3
25°	1326.7	1376.9	1496.1	1341.9	1299.5
27.5°	816.0	839.0	959.7	805.5	782.5
30°	507.6	496.1	553.1	474.6	442.2
32.5°	333.0	318.3	336.6	302.1	276.0
35°	222.7	227.4	213.3	211.7	178.8
37.5°	139.0	160.0	141.1	150.5	115.0
40°	89.9	116.0	99.8	110.3	84.7
42.5°	73.7	89.4	82.1	87.3	75.3
45°	58.5	72.7	72.7	72.7	59.1
47.5°	32.4	48.6	62.2	49.7	34.5
50°	18.3	24.6	48.1	25.6	19.3
52.5°	12.5	14.1	32.9	14.6	13.1
55°	9.4	9.9	17.8	10.5	9.9
57.5°	7.3	7.8	9.4	7.8	7.3
60°	5.8	5.8	6.8	6.3	5.8
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

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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