

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: P748326

Luminaire Tested: LD4D45BD010-EU4DR3040509027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748326
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: LD4D45BD010-EU4DR3040509027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-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: 4111.6 lumens
Efficiency: N/A
Efficacy: 106.2 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): 38.7
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

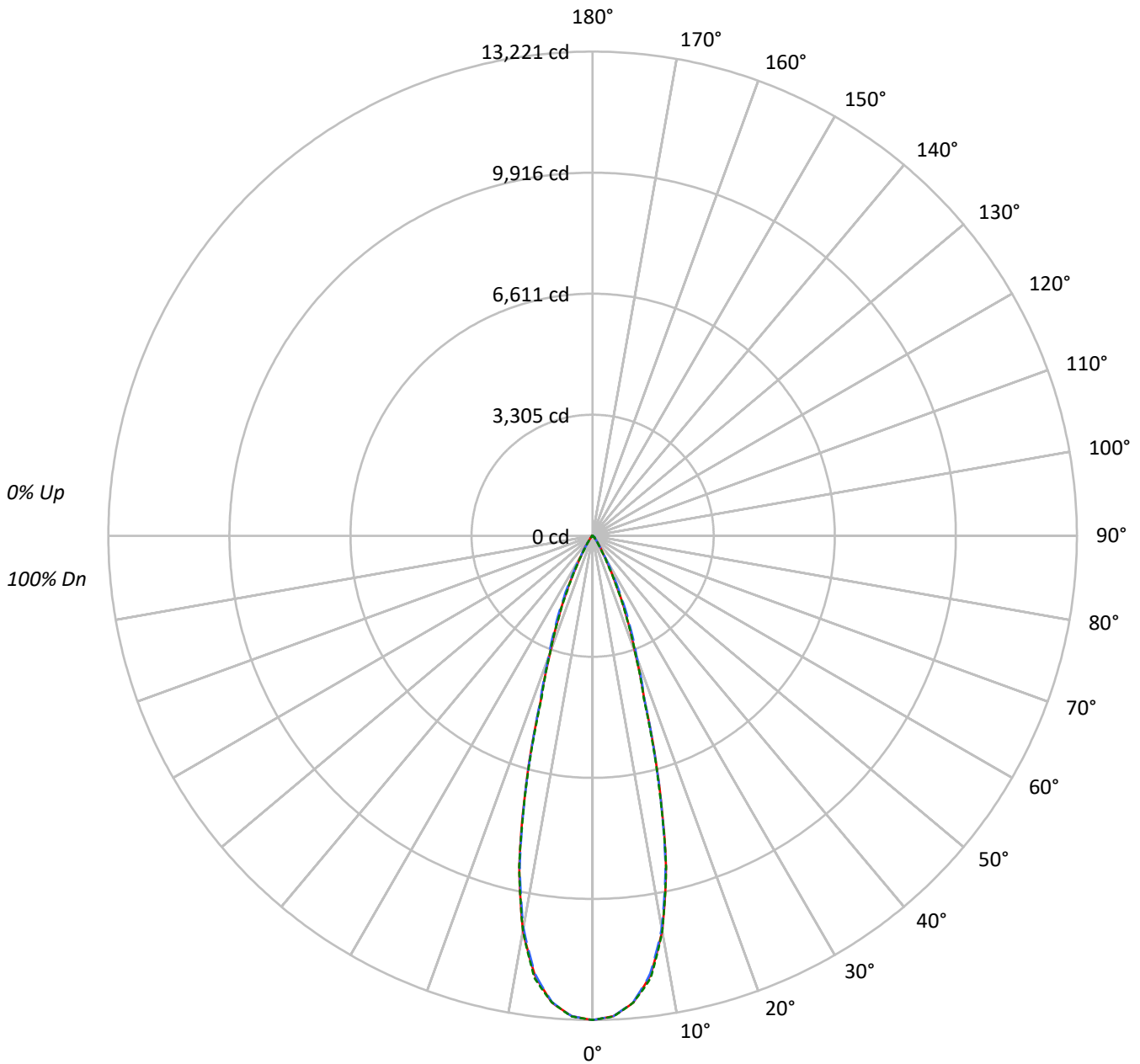


Downlight

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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°	1011965	1011965	1011965
5°	982914	981769	982968
10°	851352	845352	851150
15°	555466	552486	549705
20°	276208	286570	275834
25°	139133	156894	136287
30°	55709	60694	48532
35°	25837	24744	20744
40°	11151	12390	10512
45°	7870	9764	7935
50°	2703	7109	2858
55°	1561	2949	1641
60°	1087	1286	1087
65°	706	706	706
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: 9764 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1162.6	28.3
10°-20°	1872.3	45.5
20°-30°	809.1	19.7
30°-40°	184.4	4.5
40°-50°	63.3	1.5
50°-60°	15.5	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°	3844.0	93.5
0°-40°	4028.4	98.0
0°-60°	4107.2	99.9
0°-90°	4111.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4111.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13221	13221	13221	13221	13221	
5°	12792	12780	12778	12804	12793	1164
15°	7010	6925	6972	6949	6937	1877
25°	1647	1710	1858	1666	1614	789
35°	276	282	265	263	222	188
45°	73	90	90	90	73	52
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°	13220.8	13220.8	13220.8	13220.8	13220.8
2.5°	13133.2	13124.1	13129.3	13135.8	13138.4
5°	12792.4	12780.1	12777.5	12804.1	12793.1
7.5°	12105.0	12087.5	12060.9	12121.3	12177.7
10°	10953.5	10934.1	10876.3	10904.9	10950.9
12.5°	9253.6	9190.6	9189.3	9280.2	9267.8
15°	7009.6	6925.2	6972.0	6949.3	6936.9
17.5°	4713.8	4681.3	4743.6	4724.8	4643.7
20°	3390.9	3399.3	3518.1	3458.4	3386.3
22.5°	2474.4	2504.9	2645.7	2491.9	2435.4
25°	1647.4	1709.7	1857.7	1666.2	1613.7
27.5°	1013.2	1041.8	1191.7	1000.3	971.7
30°	630.3	616.0	686.7	589.4	549.1
32.5°	413.5	395.3	418.0	375.2	342.7
35°	276.5	282.4	264.8	262.9	222.0
37.5°	172.7	198.6	175.3	186.9	142.8
40°	111.6	144.1	124.0	137.0	105.2
42.5°	91.5	111.0	101.9	108.4	93.5
45°	72.7	90.2	90.2	90.2	73.3
47.5°	40.2	60.4	77.2	61.7	42.8
50°	22.7	30.5	59.7	31.8	24.0
52.5°	15.6	17.5	40.9	18.2	16.2
55°	11.7	12.3	22.1	13.0	12.3
57.5°	9.1	9.7	11.7	9.7	9.1
60°	7.1	7.1	8.4	7.8	7.1
62.5°	5.2	5.2	5.8	5.2	5.2
65°	3.9	3.9	3.9	3.9	3.9
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

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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