

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: P756126

Luminaire Tested: LD4D95BD010-EU4DR3070959027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756126
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: LD4D95BD010-EU4DR3070959027-4LBS1H
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: 8783.9 lumens
Efficiency: N/A
Efficacy: 88.5 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): 99.2
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

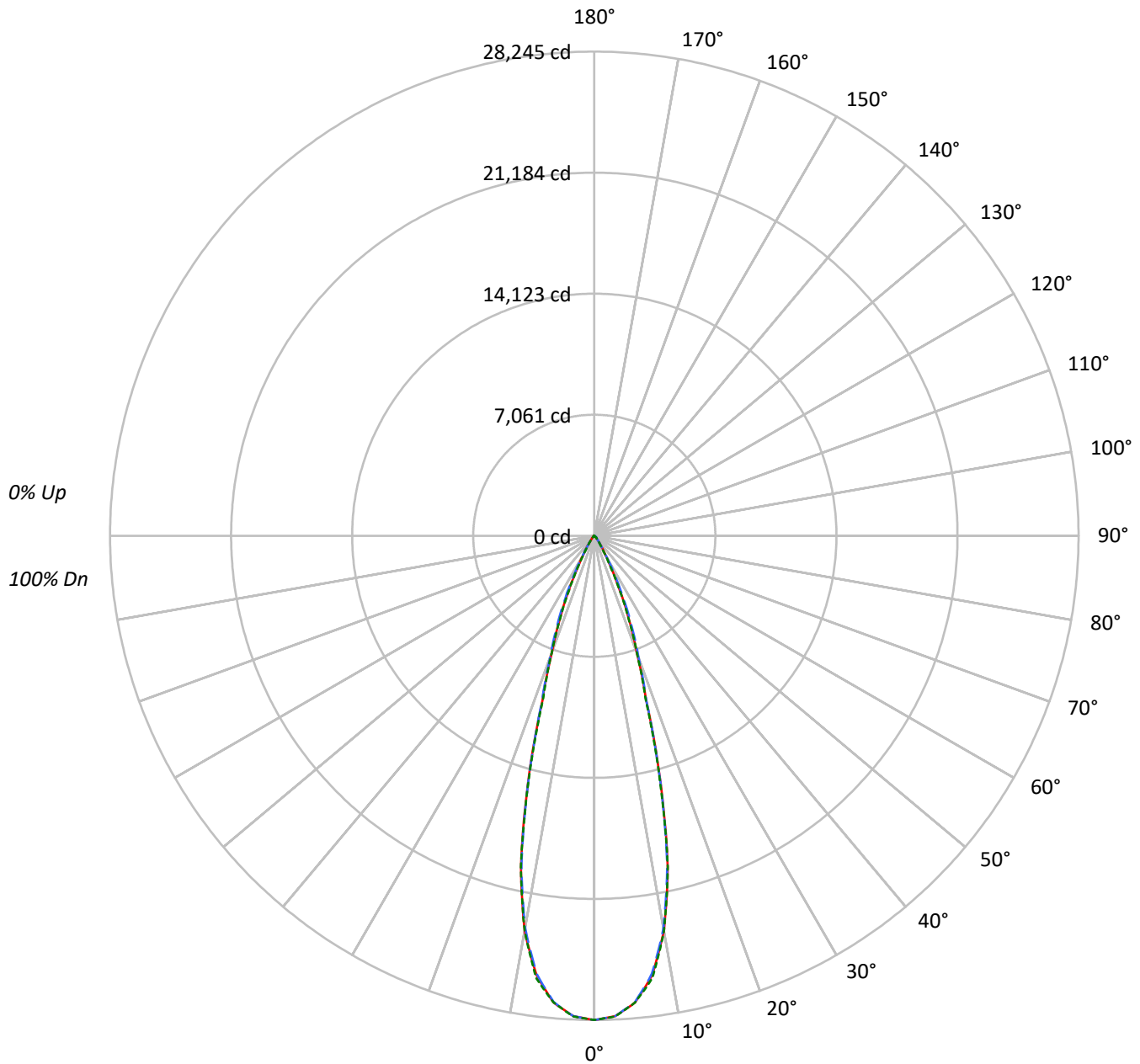


Downlight

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	98	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	94	89	86	98	93	89	86		91	88	85		90	86	84		88	86	83
6	97	90	85	82	95	89	85	82		88	84	81		87	83	81		85	83	80
7	94	87	82	79	92	86	82	79		85	81	78		84	81	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		80	76	73		79	75	73		78	75	73
10	85	78	74	71	85	78	74	71		77	73	71		76	73	71		76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2161938	2161938	2161938
5°	2099876	2097425	2099983
10°	1818808	1805984	1818381
15°	1186688	1180309	1174374
20°	590082	612222	589292
25°	297244	335190	291155
30°	119010	129669	103693
35°	55196	52870	44320
40°	23831	26469	22442
45°	16811	20870	16963
50°	5775	15195	6109
55°	3336	6285	3510
60°	2342	2756	2342
65°	1503	1503	1503
70°	940	627	940
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 20870 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2483.7	28.3
10°-20°	4000.0	45.5
20°-30°	1728.5	19.7
30°-40°	394.0	4.5
40°-50°	135.3	1.5
50°-60°	33.0	0.4
60°-70°	8.6	0.1
70°-80°	0.9	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°	8212.2	93.5
0°-40°	8606.2	98.0
0°-60°	8774.5	99.9
0°-90°	8783.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8783.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28245	28245	28245	28245	28245	
5°	27329	27303	27298	27354	27331	2486
15°	14975	14795	14895	14846	14820	4010
25°	3520	3653	3969	3560	3447	1685
35°	591	603	566	562	474	401
45°	155	193	193	193	157	110
55°	25	26	47	28	26	24
65°	8	8	8	8	8	8
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28244.6	28244.6	28244.6	28244.6	28244.6
2.5°	28057.4	28038.0	28049.1	28063.0	28068.5
5°	27329.4	27303.1	27297.5	27354.4	27330.8
7.5°	25860.9	25823.4	25766.6	25895.5	26016.2
10°	23400.8	23359.2	23235.8	23296.8	23395.3
12.5°	19769.0	19634.5	19631.7	19825.9	19799.5
15°	14975.2	14794.9	14894.7	14846.2	14819.8
17.5°	10070.3	10001.0	10134.1	10093.9	9920.6
20°	7244.2	7262.2	7516.0	7388.4	7234.5
22.5°	5286.2	5351.3	5652.3	5323.6	5203.0
25°	3519.5	3652.6	3968.8	3559.7	3447.4
27.5°	2164.7	2225.7	2546.0	2136.9	2075.9
30°	1346.5	1316.0	1467.1	1259.1	1173.2
32.5°	883.3	844.5	893.0	801.5	732.2
35°	590.7	603.2	565.8	561.6	474.3
37.5°	368.9	424.3	374.4	399.4	305.1
40°	238.5	307.9	264.9	292.6	224.6
42.5°	195.5	237.1	217.7	231.6	199.7
45°	155.3	192.8	192.8	192.8	156.7
47.5°	86.0	129.0	165.0	131.7	91.5
50°	48.5	65.2	127.6	67.9	51.3
52.5°	33.3	37.4	87.4	38.8	34.7
55°	25.0	26.3	47.1	27.7	26.3
57.5°	19.4	20.8	25.0	20.8	19.4
60°	15.3	15.3	18.0	16.6	15.3
62.5°	11.1	11.1	12.5	11.1	11.1
65°	8.3	8.3	8.3	8.3	8.3
67.5°	4.2	5.5	5.5	5.5	5.5
70°	4.2	2.8	2.8	2.8	4.2
72.5°	2.8	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)