

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: P756121

Luminaire Tested: LD4D95BD010-EU4DR3070959027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756121
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-EU4DR3070959027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6718.3 lumens
Efficiency: N/A
Efficacy: 67.7 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): 99.2
Input Voltage (V): NR
Input Current (Ain): 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

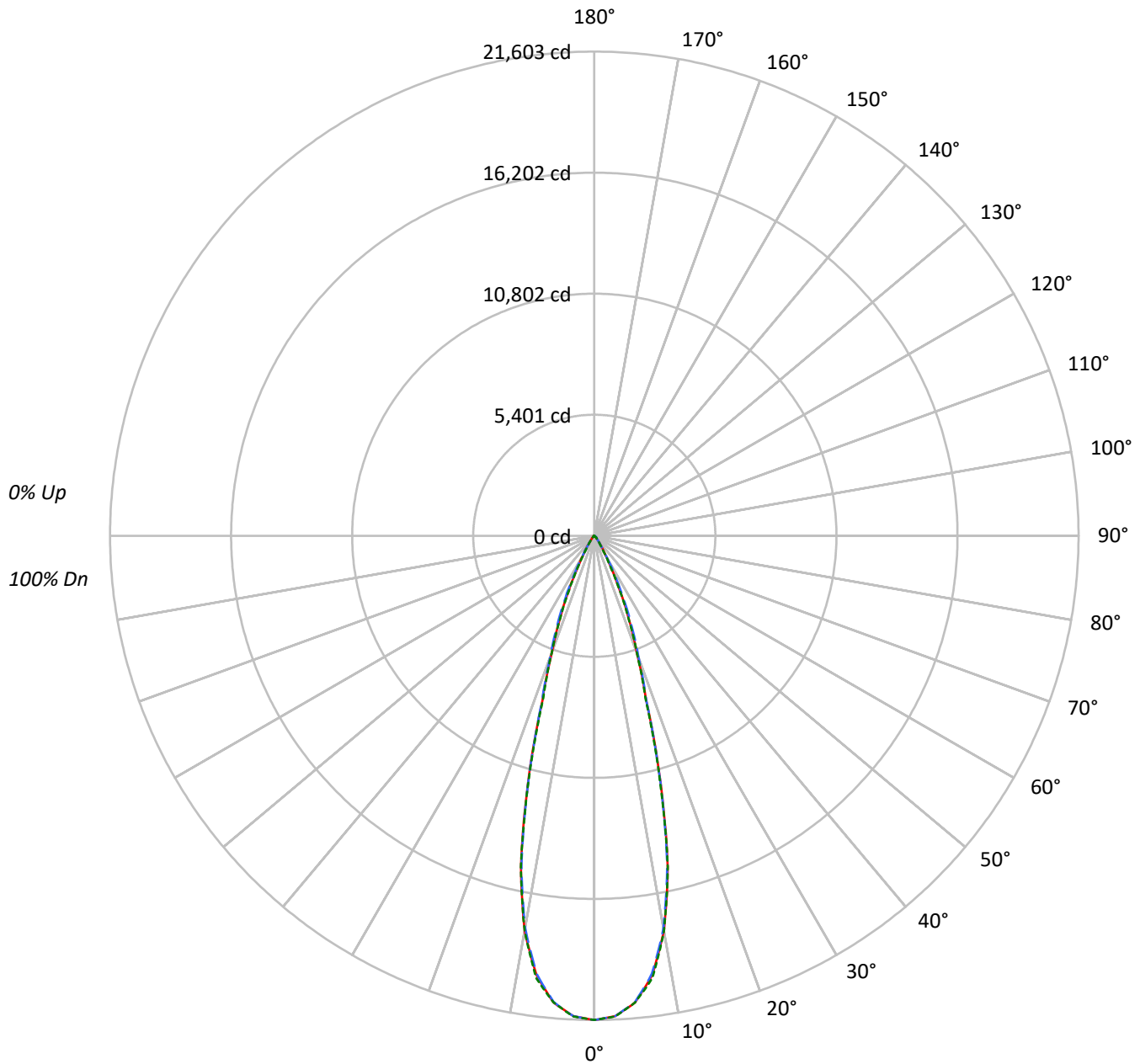


Downlight

TEST NUMBER: P756121

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1653536	1653536	1653536
5°	1606068	1604193	1606144
10°	1391100	1381283	1390766
15°	907624	902750	898210
20°	451314	468249	450711
25°	227339	256367	222686
30°	91027	99176	79308
35°	42217	40432	33891
40°	18225	20244	17166
45°	12860	15956	12968
50°	4418	11622	4668
55°	2549	4818	2696
60°	1791	2113	1791
65°	1159	1159	1159
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15956 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1899.6	28.3
10°-20°	3059.4	45.5
20°-30°	1322.0	19.7
30°-40°	301.3	4.5
40°-50°	103.5	1.5
50°-60°	25.3	0.4
60°-70°	6.6	0.1
70°-80°	0.7	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°	6281.0	93.5
0°-40°	6582.3	98.0
0°-60°	6711.0	99.9
0°-90°	6718.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6718.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21603	21603	21603	21603	21603	
5°	20903	20882	20878	20922	20904	1901
15°	11454	11316	11392	11355	11335	3067
25°	2692	2794	3036	2723	2637	1288
35°	452	461	433	430	363	306
45°	119	147	147	147	120	84
55°	19	20	36	21	20	19
65°	6	6	6	6	6	6
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°	21602.6	21602.6	21602.6	21602.6	21602.6
2.5°	21459.4	21444.6	21453.0	21463.6	21467.9
5°	20902.6	20882.4	20878.2	20921.7	20903.6
7.5°	19779.4	19750.8	19707.3	19805.9	19898.2
10°	17897.9	17866.0	17771.6	17818.3	17893.6
12.5°	15120.1	15017.2	15015.1	15163.6	15143.4
15°	11453.6	11315.7	11392.1	11354.9	11334.8
17.5°	7702.2	7649.1	7751.0	7720.2	7587.6
20°	5540.6	5554.4	5748.5	5651.0	5533.2
22.5°	4043.1	4092.9	4323.1	4071.7	3979.4
25°	2691.8	2793.7	3035.5	2722.6	2636.7
27.5°	1655.6	1702.3	1947.3	1634.4	1587.7
30°	1029.9	1006.5	1122.1	963.0	897.3
32.5°	675.6	645.9	683.0	613.0	560.0
35°	451.8	461.4	432.7	429.5	362.7
37.5°	282.1	324.5	286.4	305.5	233.3
40°	182.4	235.5	202.6	223.8	171.8
42.5°	149.5	181.4	166.5	177.1	152.7
45°	118.8	147.4	147.4	147.4	119.8
47.5°	65.8	98.6	126.2	100.8	70.0
50°	37.1	49.8	97.6	52.0	39.2
52.5°	25.5	28.6	66.8	29.7	26.5
55°	19.1	20.2	36.1	21.2	20.2
57.5°	14.8	15.9	19.1	15.9	14.8
60°	11.7	11.7	13.8	12.7	11.7
62.5°	8.5	8.5	9.5	8.5	8.5
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.2	4.2	4.2	4.2
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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)