

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: P756162

Luminaire Tested: LD4D95BD010-EU4DR3070959040-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756162
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-EU4DR3070959040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9548.3 lumens
Efficiency: N/A
Efficacy: 96.3 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

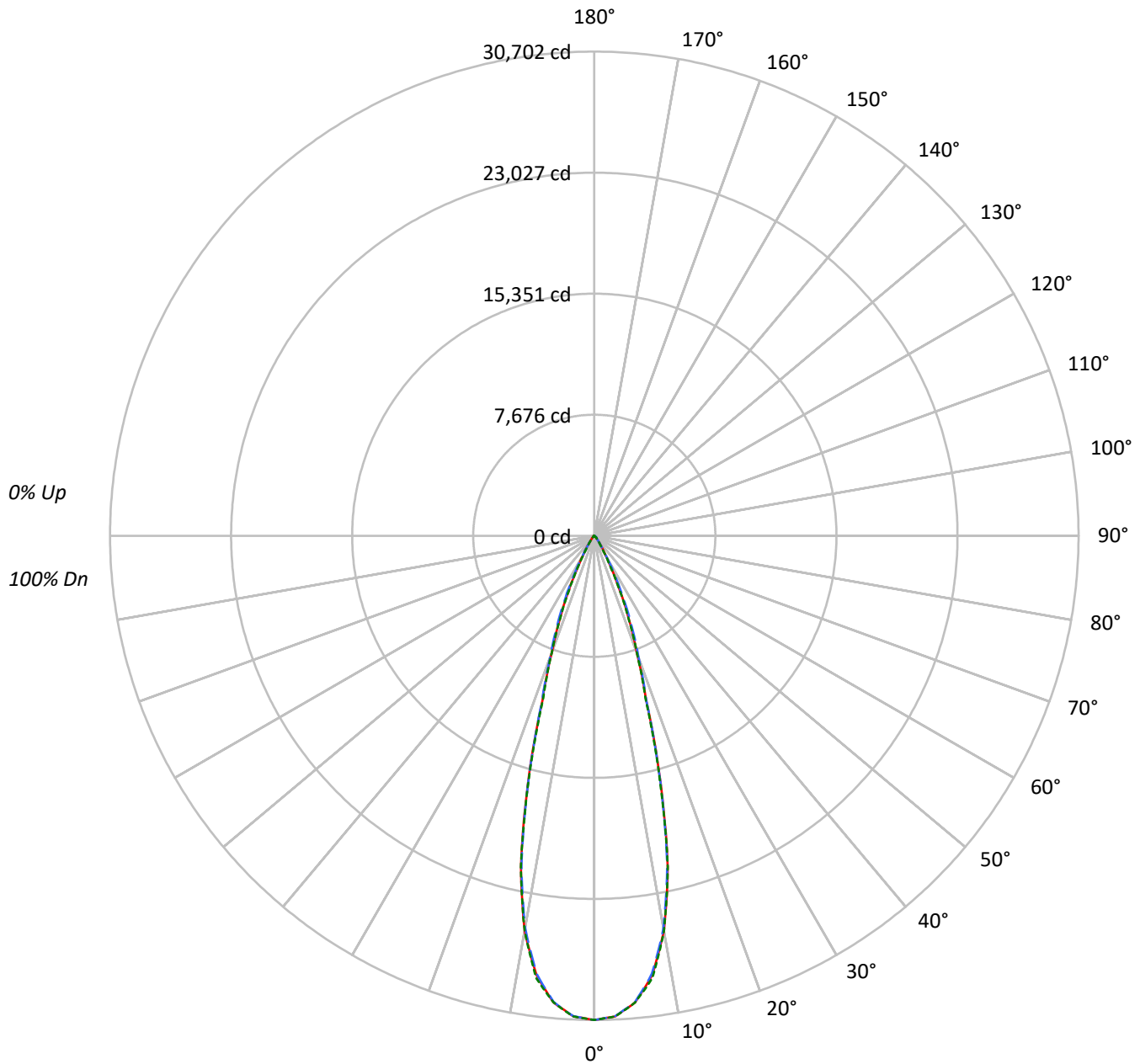


Downlight

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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°	2350074	2350074	2350074
5°	2282607	2279940	2282722
10°	1977086	1963142	1976612
15°	1289950	1283024	1276574
20°	641432	665494	640568
25°	323104	364353	316492
30°	129369	140956	112708
35°	59999	57467	48169
40°	25909	28767	24401
45°	18272	22678	18435
50°	6287	16516	6645
55°	3616	6846	3817
60°	2541	3001	2541
65°	1630	1630	1630
70°	1007	671	1007
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 22678 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2699.8	28.3
10°-20°	4348.1	45.5
20°-30°	1878.9	19.7
30°-40°	428.2	4.5
40°-50°	147.0	1.5
50°-60°	35.9	0.4
60°-70°	9.3	0.1
70°-80°	1.0	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°	8926.8	93.5
0°-40°	9355.1	98.0
0°-60°	9538.0	99.9
0°-90°	9548.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9548.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30702	30702	30702	30702	30702	
5°	29708	29679	29673	29735	29709	2702
15°	16278	16082	16191	16138	16110	4359
25°	3826	3970	4314	3870	3747	1831
35°	642	656	615	610	516	436
45°	169	210	210	210	170	120
55°	27	29	51	30	29	26
65°	9	9	9	9	9	9
75°	0	0	2	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°	30702.5	30702.5	30702.5	30702.5	30702.5
2.5°	30499.0	30477.9	30489.9	30505.0	30511.0
5°	29707.6	29679.0	29672.9	29734.7	29709.1
7.5°	28111.3	28070.6	28008.8	28149.0	28280.1
10°	25437.2	25391.9	25257.8	25324.1	25431.1
12.5°	21489.3	21343.1	21340.1	21551.1	21522.5
15°	16278.3	16082.3	16190.9	16138.1	16109.5
17.5°	10946.6	10871.3	11016.0	10972.3	10783.9
20°	7874.6	7894.2	8170.0	8031.4	7864.0
22.5°	5746.2	5817.0	6144.1	5786.9	5655.7
25°	3825.7	3970.5	4314.1	3869.5	3747.4
27.5°	2353.0	2419.4	2767.6	2322.9	2256.6
30°	1463.7	1430.5	1594.8	1368.7	1275.2
32.5°	960.2	918.0	970.8	871.3	795.9
35°	642.1	655.7	615.0	610.5	515.5
37.5°	401.0	461.3	407.0	434.1	331.6
40°	259.3	334.6	287.9	318.1	244.2
42.5°	212.5	257.8	236.7	251.7	217.1
45°	168.8	209.5	209.5	209.5	170.3
47.5°	93.5	140.2	179.4	143.2	99.5
50°	52.8	70.8	138.7	73.9	55.8
52.5°	36.2	40.7	95.0	42.2	37.7
55°	27.1	28.6	51.3	30.1	28.6
57.5°	21.1	22.6	27.1	22.6	21.1
60°	16.6	16.6	19.6	18.1	16.6
62.5°	12.1	12.1	13.6	12.1	12.1
65°	9.0	9.0	9.0	9.0	9.0
67.5°	4.5	6.0	6.0	6.0	6.0
70°	4.5	3.0	3.0	3.0	4.5
72.5°	3.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)