

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: P756154

Luminaire Tested: LD4D95BD010-EU4DR3070959035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756154
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-EU4DR3070959035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8692.5 lumens
Efficiency: N/A
Efficacy: 87.6 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

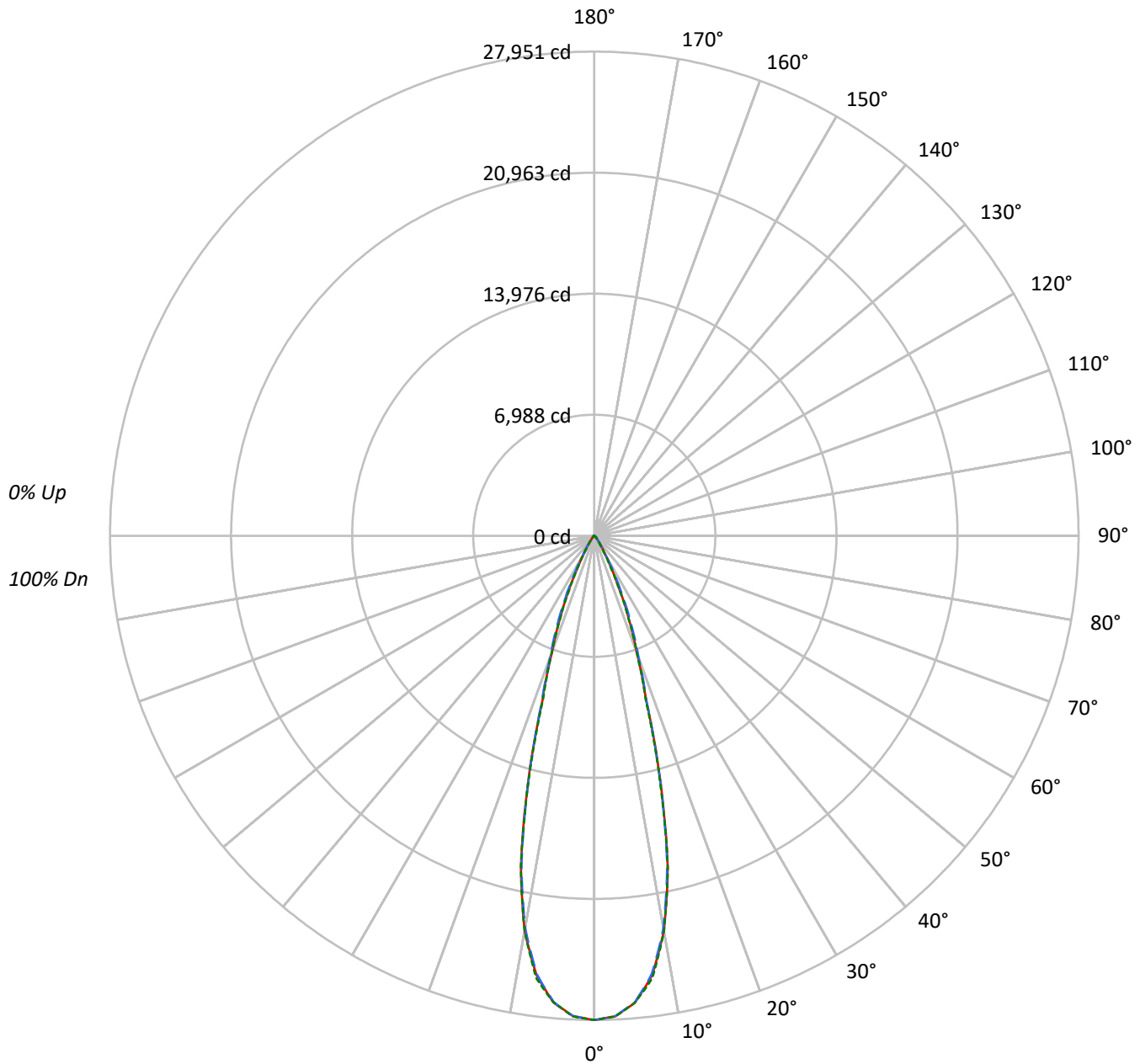


Downlight

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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				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°	2139441	2139441	2139441
5°	2078024	2075596	2078124
10°	1799883	1787190	1799455
15°	1174334	1168026	1162154
20°	583940	605852	583158
25°	294153	331702	288123
30°	117773	128326	102615
35°	54626	52318	43852
40°	23581	26189	22212
45°	16638	20643	16789
50°	5716	15040	6049
55°	3296	6232	3483
60°	2312	2725	2312
65°	1485	1485	1485
70°	918	604	918
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 20643 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2457.8	28.3
10°-20°	3958.4	45.5
20°-30°	1710.5	19.7
30°-40°	389.9	4.5
40°-50°	133.9	1.5
50°-60°	32.7	0.4
60°-70°	8.5	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°	8126.7	93.5
0°-40°	8516.6	98.0
0°-60°	8683.1	99.9
0°-90°	8692.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8692.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27951	27951	27951	27951	27951	
5°	27045	27019	27013	27070	27046	2460
15°	14819	14641	14740	14692	14666	3968
25°	3483	3615	3928	3523	3412	1667
35°	585	597	560	556	469	397
45°	154	191	191	191	155	109
55°	25	26	47	27	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°	27950.7	27950.7	27950.7	27950.7	27950.7
2.5°	27765.4	27746.2	27757.2	27770.9	27776.4
5°	27045.0	27018.9	27013.4	27069.7	27046.3
7.5°	25591.7	25554.7	25498.4	25626.0	25745.4
10°	23157.3	23116.1	22994.0	23054.4	23151.8
12.5°	19563.3	19430.2	19427.4	19619.5	19593.5
15°	14819.3	14640.9	14739.7	14691.7	14665.6
17.5°	9965.5	9896.9	10028.6	9988.9	9817.3
20°	7168.8	7186.6	7437.8	7311.5	7159.2
22.5°	5231.1	5295.6	5593.4	5268.2	5148.8
25°	3482.9	3614.6	3927.5	3522.7	3411.5
27.5°	2142.1	2202.5	2519.5	2114.7	2054.3
30°	1332.5	1302.3	1451.9	1246.0	1161.0
32.5°	874.1	835.7	883.8	793.2	724.6
35°	584.6	596.9	559.9	555.8	469.3
37.5°	365.0	419.9	370.5	395.2	301.9
40°	236.0	304.6	262.1	289.6	222.3
42.5°	193.5	234.7	215.4	229.2	197.6
45°	153.7	190.7	190.7	190.7	155.1
47.5°	85.1	127.6	163.3	130.4	90.6
50°	48.0	64.5	126.3	67.2	50.8
52.5°	32.9	37.1	86.5	38.4	34.3
55°	24.7	26.1	46.7	27.4	26.1
57.5°	19.2	20.6	24.7	20.6	19.2
60°	15.1	15.1	17.8	16.5	15.1
62.5°	11.0	11.0	12.4	11.0	11.0
65°	8.2	8.2	8.2	8.2	8.2
67.5°	4.1	5.5	5.5	5.5	5.5
70°	4.1	2.7	2.7	2.7	4.1
72.5°	2.7	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)