

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: P756163

Luminaire Tested: LD4D95BD010-EU4DR3070959040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756163
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-EU4DR3070959040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8112.0 lumens
Efficiency: N/A
Efficacy: 81.8 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

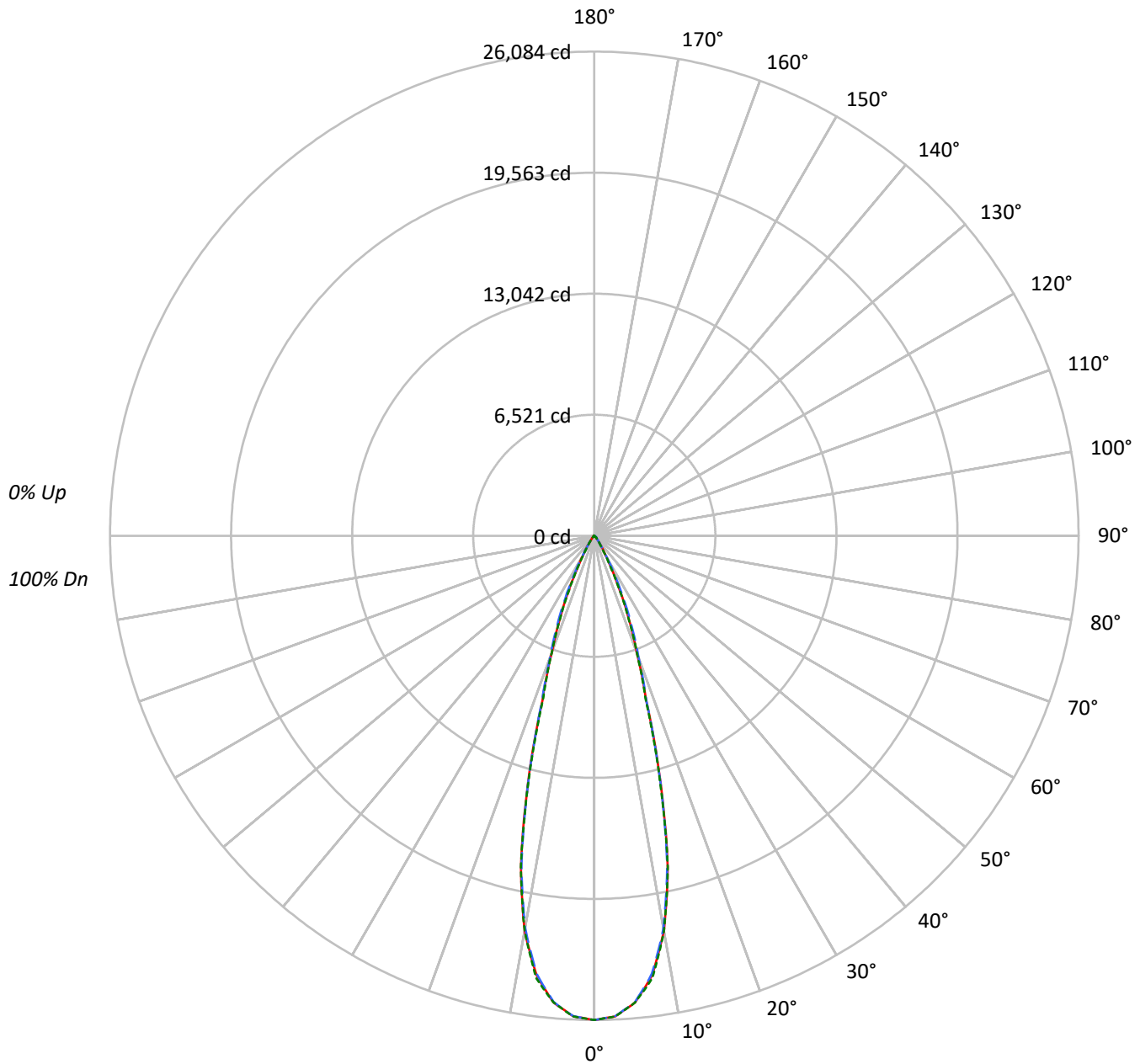


Downlight

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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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	115	113	111	109	112	110	109	107		106	105	104			103	102	101			96
2	111	107	104	101	109	105	102	100		102	100	98			99	97	96			92
3	107	102	98	95	105	101	97	94		98	95	93			96	93	91			89
4	103	98	93	90	102	96	93	90		94	91	89			93	90	88			85
5	100	94	89	86	98	93	89	86		91	88	85			90	86	84			82
6	97	90	85	82	95	89	85	82		88	84	81			87	83	81			79
7	94	87	82	79	92	86	82	79		85	81	78			84	81	78			77
8	91	84	79	76	90	83	79	76		82	78	76			81	78	75			74
9	88	81	76	73	87	80	76	73		80	76	73			79	75	73			72
10	85	78	74	71	85	78	74	71		77	73	71			76	73	71			69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1996566	1996566	1996566
5°	1939251	1936984	1939350
10°	1679682	1667837	1679286
15°	1095915	1090027	1084543
20°	544947	565393	544214
25°	274508	309549	268883
30°	109906	119752	95756
35°	50982	48824	40928
40°	22012	24441	20733
45°	15523	19268	15664
50°	5335	14028	5644
55°	3083	5805	3243
60°	2159	2541	2159
65°	1395	1395	1395
70°	850	582	850
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19268 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2293.7	28.3
10°-20°	3694.0	45.5
20°-30°	1596.3	19.7
30°-40°	363.8	4.5
40°-50°	124.9	1.5
50°-60°	30.5	0.4
60°-70°	7.9	0.1
70°-80°	0.8	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°	7584.0	93.5
0°-40°	7947.9	98.0
0°-60°	8103.3	99.9
0°-90°	8112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26084	26084	26084	26084	26084	
5°	25239	25215	25209	25262	25240	2296
15°	13830	13663	13755	13711	13686	3703
25°	3250	3373	3665	3287	3184	1556
35°	546	557	522	519	438	370
45°	143	178	178	178	145	102
55°	23	24	44	26	24	22
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°	26084.1	26084.1	26084.1	26084.1	26084.1
2.5°	25911.2	25893.3	25903.6	25916.4	25921.5
5°	25238.9	25214.6	25209.4	25262.0	25240.2
7.5°	23882.7	23848.1	23795.6	23914.7	24026.1
10°	21610.8	21572.4	21458.4	21514.8	21605.7
12.5°	18256.8	18132.6	18130.1	18309.3	18285.0
15°	13829.7	13663.2	13755.4	13710.6	13686.2
17.5°	9300.0	9236.0	9358.9	9321.8	9161.7
20°	6690.1	6706.7	6941.1	6823.3	6681.1
22.5°	4881.8	4942.0	5219.9	4916.4	4805.0
25°	3250.3	3373.2	3665.2	3287.4	3183.7
27.5°	1999.1	2055.4	2351.3	1973.5	1917.1
30°	1243.5	1215.3	1354.9	1162.8	1083.4
32.5°	815.8	779.9	824.7	740.2	676.2
35°	545.6	557.1	522.5	518.7	438.0
37.5°	340.7	391.9	345.8	368.8	281.7
40°	220.3	284.3	244.6	270.2	207.5
42.5°	180.6	219.0	201.1	213.9	184.4
45°	143.4	178.0	178.0	178.0	144.7
47.5°	79.4	119.1	152.4	121.7	84.5
50°	44.8	60.2	117.8	62.8	47.4
52.5°	30.7	34.6	80.7	35.9	32.0
55°	23.1	24.3	43.5	25.6	24.3
57.5°	17.9	19.2	23.1	19.2	17.9
60°	14.1	14.1	16.6	15.4	14.1
62.5°	10.2	10.2	11.5	10.2	10.2
65°	7.7	7.7	7.7	7.7	7.7
67.5°	3.8	5.1	5.1	5.1	5.1
70°	3.8	2.6	2.6	2.6	3.8
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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)