

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: P756124

Luminaire Tested: LD4D95BD010-EU4DR3070959027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756124
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-EU4DR3070959027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7444.0 lumens
Efficiency: N/A
Efficacy: 75.0 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

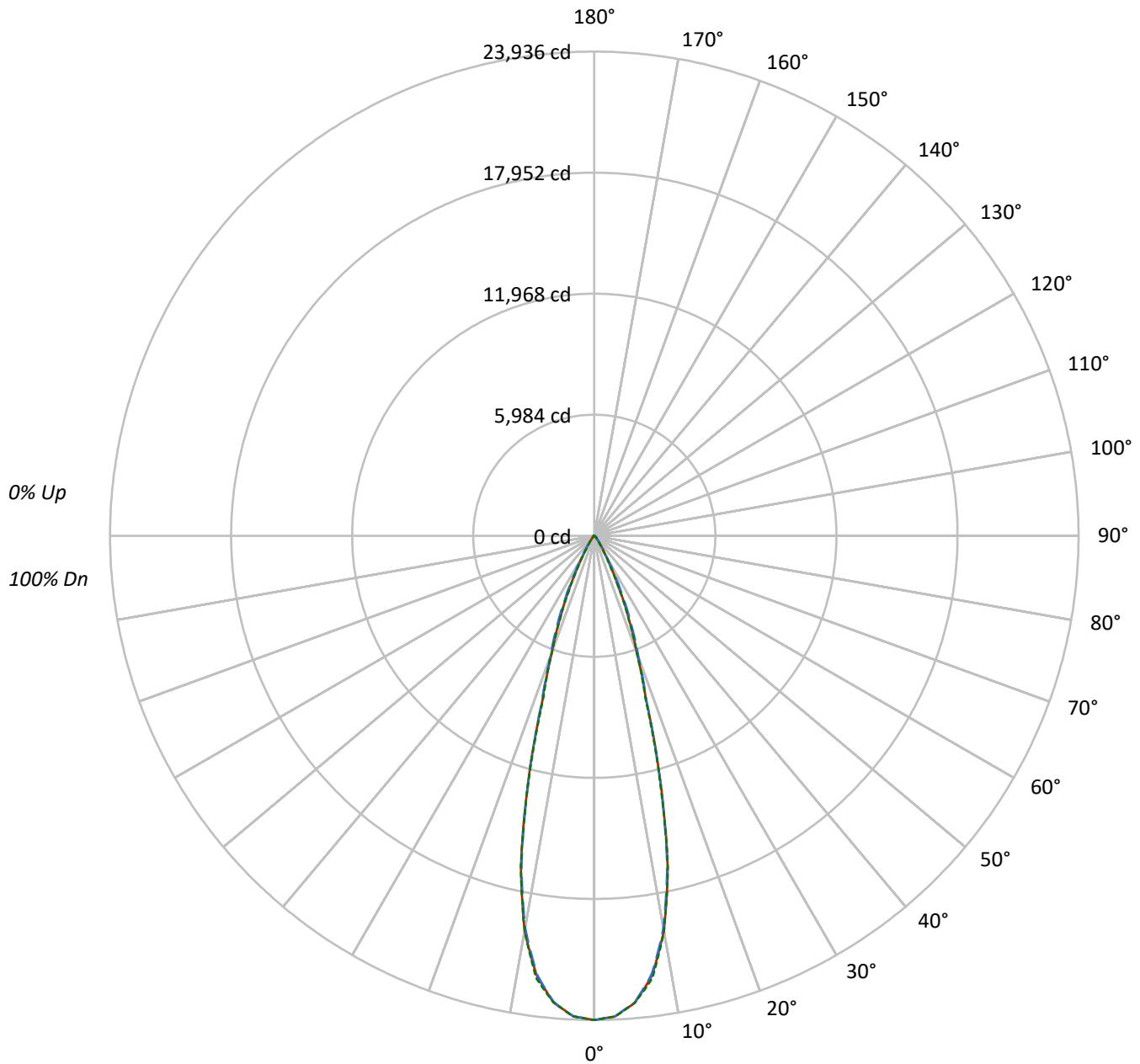


Downlight

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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	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°	1832143	1832143	1832143
5°	1779547	1777473	1779640
10°	1541356	1530491	1540991
15°	1005656	1000260	995228
20°	500065	518833	499397
25°	251899	284060	246739
30°	100856	109889	87872
35°	46777	44806	37554
40°	20194	22432	19025
45°	14246	17677	14375
50°	4894	12873	5180
55°	2829	5338	2976
60°	1975	2342	1975
65°	1286	1286	1286
70°	783	537	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 17677 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2104.8	28.3
10°-20°	3389.8	45.5
20°-30°	1464.8	19.7
30°-40°	333.9	4.5
40°-50°	114.6	1.5
50°-60°	28.0	0.4
60°-70°	7.3	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°	6959.5	93.5
0°-40°	7293.3	98.0
0°-60°	7436.0	99.9
0°-90°	7444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23936	23936	23936	23936	23936	
5°	23160	23138	23133	23182	23162	2107
15°	12691	12538	12623	12582	12559	3398
25°	2983	3095	3363	3017	2922	1428
35°	501	511	480	476	402	340
45°	132	163	163	163	133	93
55°	21	22	40	24	22	21
65°	7	7	7	7	7	7
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°	23936.0	23936.0	23936.0	23936.0	23936.0
2.5°	23777.4	23760.9	23770.3	23782.1	23786.8
5°	23160.4	23138.1	23133.4	23181.6	23161.6
7.5°	21915.9	21884.2	21836.0	21945.3	22047.5
10°	19831.1	19795.9	19691.3	19743.0	19826.4
12.5°	16753.3	16639.3	16637.0	16801.5	16779.2
15°	12690.7	12538.0	12622.6	12581.5	12559.1
17.5°	8534.1	8475.4	8588.2	8554.1	8407.2
20°	6139.1	6154.4	6369.5	6261.3	6130.9
22.5°	4479.8	4535.0	4790.0	4511.5	4409.3
25°	2982.6	3095.4	3363.4	3016.7	2921.5
27.5°	1834.5	1886.2	2157.6	1810.9	1759.2
30°	1141.1	1115.2	1243.3	1067.1	994.2
32.5°	748.6	715.7	756.8	679.3	620.5
35°	500.6	511.2	479.5	475.9	401.9
37.5°	312.6	359.6	317.3	338.5	258.5
40°	202.1	260.9	224.5	248.0	190.4
42.5°	165.7	201.0	184.5	196.3	169.2
45°	131.6	163.3	163.3	163.3	132.8
47.5°	72.9	109.3	139.8	111.6	77.6
50°	41.1	55.2	108.1	57.6	43.5
52.5°	28.2	31.7	74.0	32.9	29.4
55°	21.2	22.3	40.0	23.5	22.3
57.5°	16.5	17.6	21.2	17.6	16.5
60°	12.9	12.9	15.3	14.1	12.9
62.5°	9.4	9.4	10.6	9.4	9.4
65°	7.1	7.1	7.1	7.1	7.1
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.4	2.4	2.4	3.5
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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)