

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: P752263

Luminaire Tested: LD4D70BD010-EU4DR3070959040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752263
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: LD4D70BD010-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: 6250.2 lumens
Efficiency: N/A
Efficacy: 93.8 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): 66.6
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

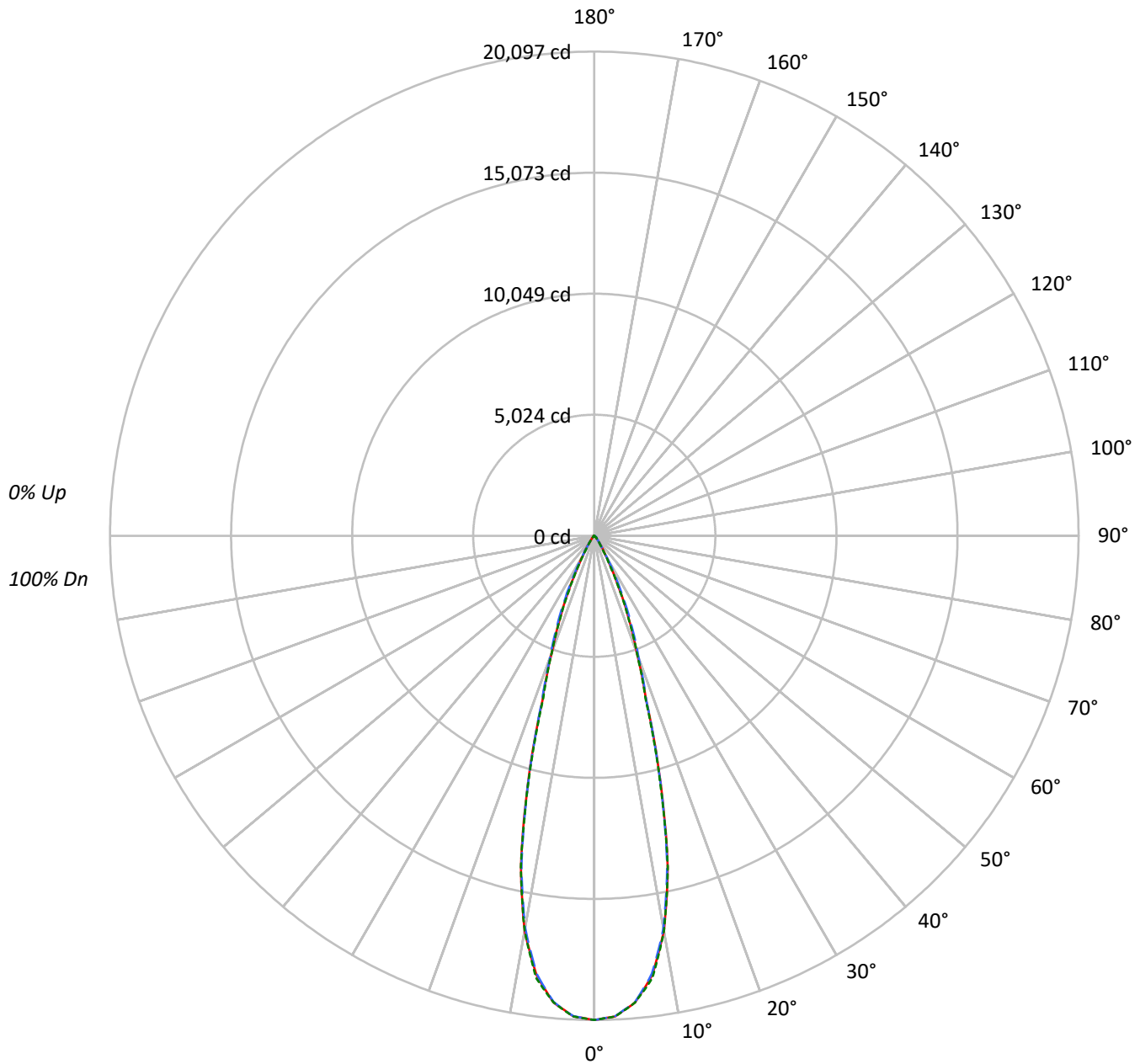


Downlight

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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°	1538316	1538316	1538316
5°	1494156	1492412	1494233
10°	1294162	1285038	1293859
15°	844380	839847	835623
20°	419872	435626	419310
25°	211504	238505	207171
30°	84681	92265	73784
35°	39274	37620	31537
40°	16956	18835	15967
45°	11961	14852	12070
50°	4108	10812	4346
55°	2375	4471	2496
60°	1669	1960	1669
65°	1069	1069	1069
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14852 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1767.3	28.3
10°-20°	2846.2	45.5
20°-30°	1229.9	19.7
30°-40°	280.3	4.5
40°-50°	96.3	1.5
50°-60°	23.5	0.4
60°-70°	6.1	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°	5843.3	93.5
0°-40°	6123.7	98.0
0°-60°	6243.4	99.9
0°-90°	6250.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6250.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20097	20097	20097	20097	20097	
5°	19446	19427	19423	19464	19447	1769
15°	10656	10527	10598	10564	10545	2853
25°	2504	2599	2824	2533	2453	1199
35°	420	429	403	400	338	285
45°	110	137	137	137	112	78
55°	18	19	34	20	19	17
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°	20097.3	20097.3	20097.3	20097.3	20097.3
2.5°	19964.1	19950.3	19958.2	19968.1	19972.0
5°	19446.1	19427.3	19423.4	19463.8	19447.1
7.5°	18401.2	18374.5	18334.1	18425.8	18511.7
10°	16650.7	16621.1	16533.3	16576.7	16646.8
12.5°	14066.5	13970.8	13968.9	14107.0	14088.2
15°	10655.5	10527.2	10598.3	10563.7	10545.0
17.5°	7165.5	7116.2	7210.9	7182.3	7058.9
20°	5154.6	5167.4	5348.0	5257.2	5147.7
22.5°	3761.3	3807.7	4021.8	3788.0	3702.1
25°	2504.3	2599.0	2824.0	2532.9	2453.0
27.5°	1540.3	1583.7	1811.6	1520.5	1477.1
30°	958.1	936.4	1043.9	895.9	834.8
32.5°	628.5	600.9	635.4	570.3	521.0
35°	420.3	429.2	402.6	399.6	337.5
37.5°	262.5	301.9	266.4	284.2	217.1
40°	169.7	219.0	188.5	208.2	159.8
42.5°	139.1	168.7	154.9	164.8	142.1
45°	110.5	137.2	137.2	137.2	111.5
47.5°	61.2	91.8	117.4	93.7	65.1
50°	34.5	46.4	90.8	48.3	36.5
52.5°	23.7	26.6	62.2	27.6	24.7
55°	17.8	18.7	33.5	19.7	18.7
57.5°	13.8	14.8	17.8	14.8	13.8
60°	10.9	10.9	12.8	11.8	10.9
62.5°	7.9	7.9	8.9	7.9	7.9
65°	5.9	5.9	5.9	5.9	5.9
67.5°	3.0	3.9	3.9	3.9	3.9
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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)