

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: P752267

Luminaire Tested: LD4D70BD010-EU4DR3070959040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752267
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-EU4DR3070959040-4LBS1MW
Description: 4 INCH ROUND SHALLOW 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: 7010.5 lumens
Efficiency: N/A
Efficacy: 105.3 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): 66.6
Input Voltage (V): NR
Input Current (A_{in}): 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

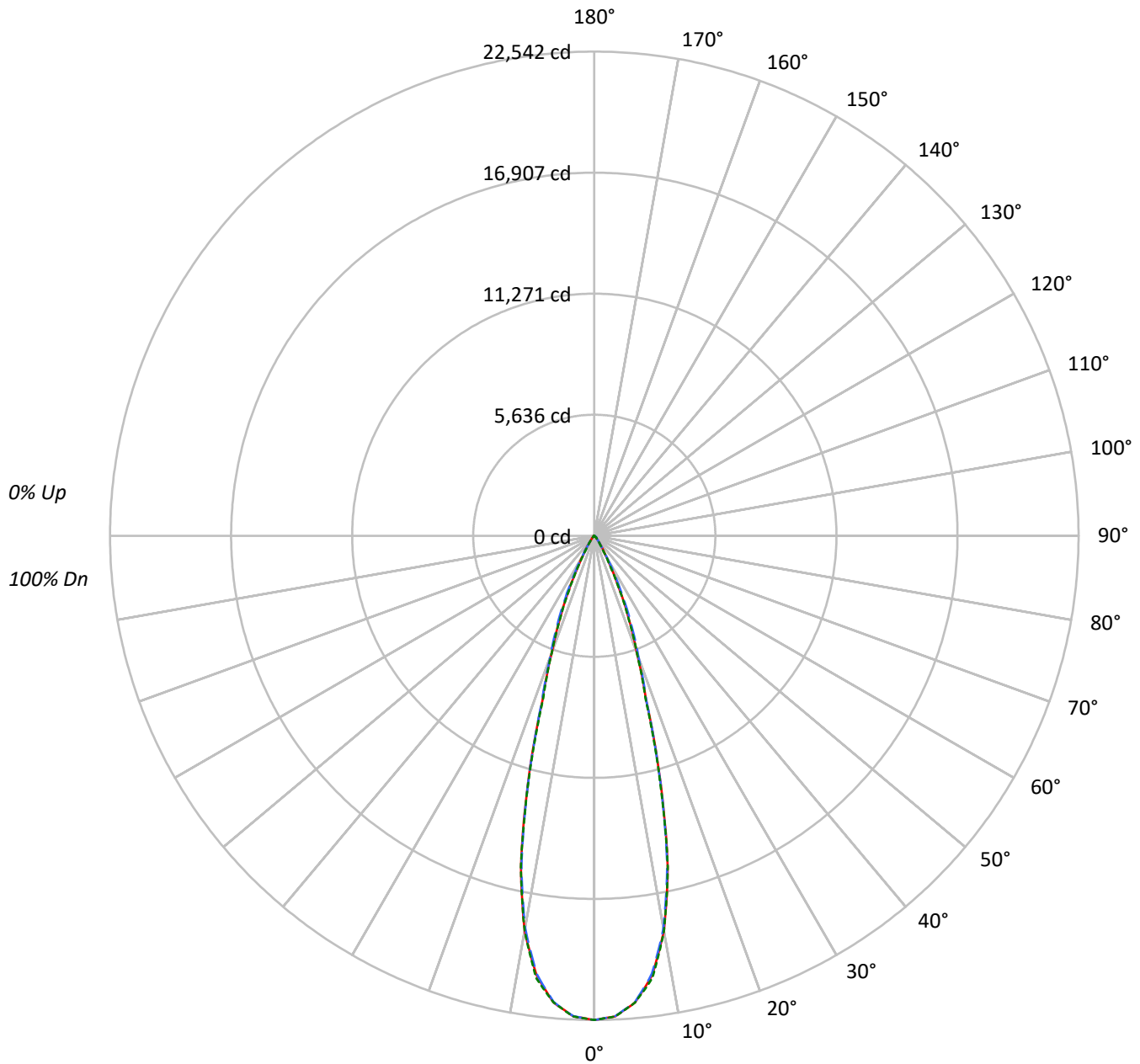


Downlight

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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°	1725464	1725464	1725464
5°	1675927	1673975	1676011
10°	1451608	1441372	1451266
15°	947103	942016	937277
20°	470953	488621	470318
25°	237229	267515	232373
30°	94987	103490	82755
35°	44058	42199	35368
40°	19025	21123	17916
45°	13423	16649	13542
50°	4608	12122	4870
55°	2656	5018	2802
60°	1868	2204	1868
65°	1195	1195	1195
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16649 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1982.3	28.3
10°-20°	3192.4	45.5
20°-30°	1379.5	19.7
30°-40°	314.4	4.5
40°-50°	108.0	1.5
50°-60°	26.4	0.4
60°-70°	6.8	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°	6554.2	93.5
0°-40°	6868.6	98.0
0°-60°	7003.0	99.9
0°-90°	7010.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7010.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22542	22542	22542	22542	22542	
5°	21812	21791	21786	21832	21813	1984
15°	11952	11808	11888	11849	11828	3200
25°	2809	2915	3168	2841	2751	1345
35°	472	481	452	448	378	320
45°	124	154	154	154	125	88
55°	20	21	38	22	21	19
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°	22542.3	22542.3	22542.3	22542.3	22542.3
2.5°	22392.9	22377.4	22386.2	22397.3	22401.7
5°	21811.8	21790.8	21786.4	21831.7	21812.9
7.5°	20639.8	20609.9	20564.5	20667.4	20763.7
10°	18676.4	18643.2	18544.7	18593.4	18672.0
12.5°	15777.8	15670.5	15668.3	15823.2	15802.2
15°	11951.8	11807.9	11887.6	11848.9	11827.8
17.5°	8037.2	7981.9	8088.1	8056.0	7917.7
20°	5781.7	5796.0	5998.6	5896.8	5773.9
22.5°	4218.9	4270.9	4511.1	4248.8	4152.5
25°	2808.9	2915.2	3167.5	2841.0	2751.4
27.5°	1727.6	1776.3	2032.0	1705.5	1656.8
30°	1074.7	1050.3	1170.9	1004.9	936.3
32.5°	705.0	674.0	712.7	639.7	584.4
35°	471.5	481.4	451.6	448.2	378.5
37.5°	294.4	338.7	298.8	318.7	243.5
40°	190.4	245.7	211.4	233.5	179.3
42.5°	156.1	189.3	173.8	184.8	159.4
45°	124.0	153.8	153.8	153.8	125.1
47.5°	68.6	102.9	131.7	105.1	73.0
50°	38.7	52.0	101.8	54.2	40.9
52.5°	26.6	29.9	69.7	31.0	27.7
55°	19.9	21.0	37.6	22.1	21.0
57.5°	15.5	16.6	19.9	16.6	15.5
60°	12.2	12.2	14.4	13.3	12.2
62.5°	8.9	8.9	10.0	8.9	8.9
65°	6.6	6.6	6.6	6.6	6.6
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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)