

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: P752254

Luminaire Tested: LD4D70BD010-EU4DR3070959035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752254
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-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: 6697.4 lumens
Efficiency: N/A
Efficacy: 100.6 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): 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

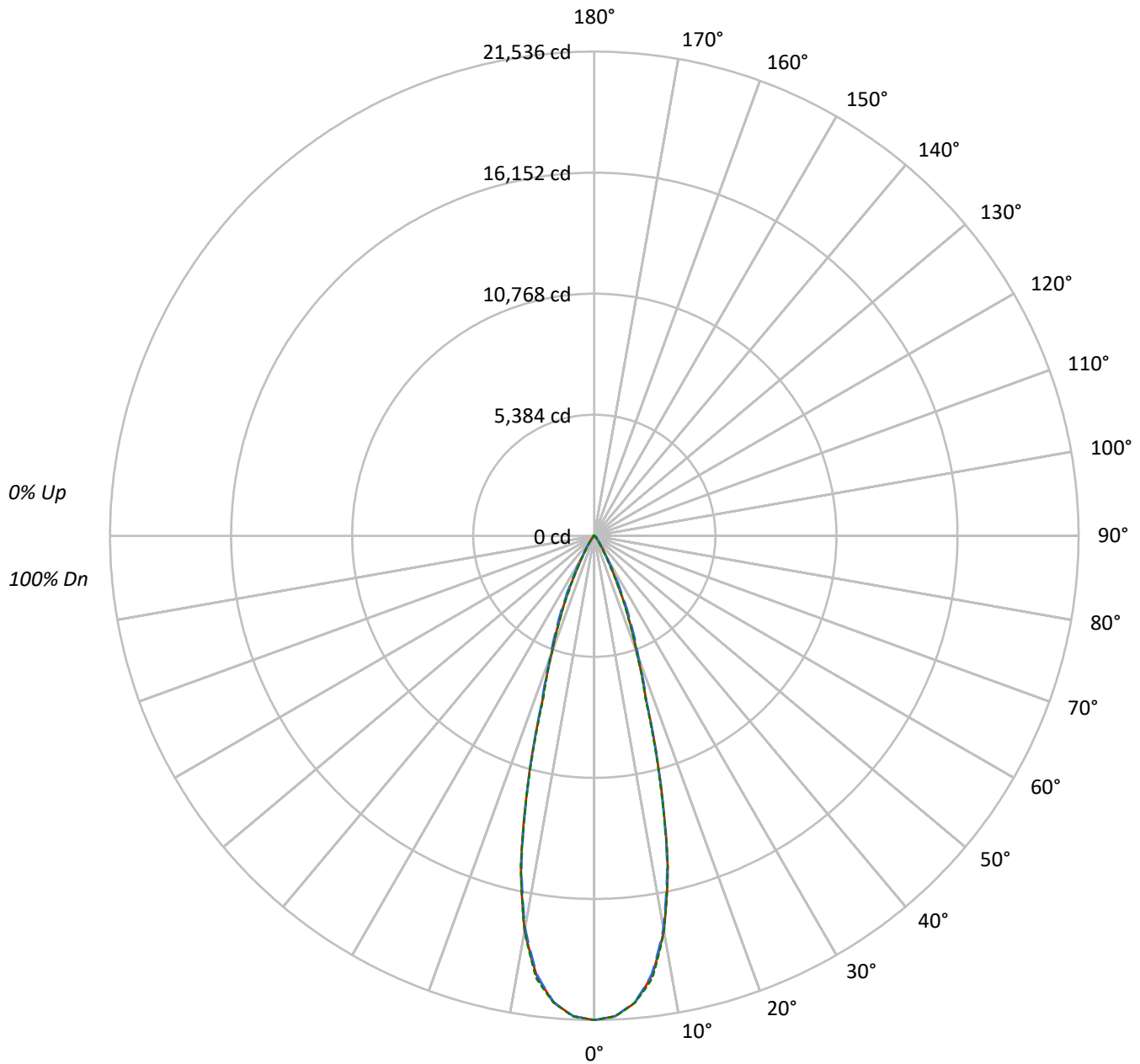


Downlight

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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
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°	1648400	1648400	1648400
5°	1601073	1599206	1601158
10°	1386771	1376993	1386444
15°	904803	899945	895420
20°	449913	466799	449310
25°	226638	255565	221993
30°	90745	98867	79060
35°	42086	40311	33789
40°	18176	20174	17116
45°	12817	15913	12936
50°	4406	11587	4656
55°	2536	4791	2682
60°	1776	2097	1776
65°	1141	1141	1141
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15913 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1893.7	28.3
10°-20°	3049.9	45.5
20°-30°	1317.9	19.7
30°-40°	300.4	4.5
40°-50°	103.1	1.5
50°-60°	25.2	0.4
60°-70°	6.5	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°	6261.5	93.5
0°-40°	6561.9	98.0
0°-60°	6690.2	99.9
0°-90°	6697.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6697.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21536	21536	21536	21536	21536	
5°	20838	20818	20813	20857	20839	1895
15°	11418	11280	11357	11320	11300	3057
25°	2684	2785	3026	2714	2628	1284
35°	450	460	431	428	362	306
45°	118	147	147	147	120	84
55°	19	20	36	21	20	19
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°	21535.5	21535.5	21535.5	21535.5	21535.5
2.5°	21392.7	21377.9	21386.4	21396.9	21401.2
5°	20837.6	20817.5	20813.3	20856.7	20838.7
7.5°	19717.9	19689.4	19646.0	19744.4	19836.3
10°	17842.2	17810.5	17716.4	17762.9	17838.0
12.5°	15073.1	14970.6	14968.5	15116.5	15096.4
15°	11418.0	11280.5	11356.7	11319.6	11299.6
17.5°	7678.2	7625.4	7726.9	7696.2	7564.1
20°	5523.4	5537.2	5730.7	5633.4	5516.0
22.5°	4030.5	4080.2	4309.6	4059.0	3967.1
25°	2683.5	2785.0	3026.0	2714.1	2628.5
27.5°	1650.5	1697.0	1941.2	1629.3	1582.8
30°	1026.7	1003.4	1118.6	960.0	894.5
32.5°	673.5	643.9	680.9	611.1	558.3
35°	450.4	459.9	431.4	428.2	361.6
37.5°	281.2	323.5	285.5	304.5	232.6
40°	181.9	234.7	201.9	223.1	171.3
42.5°	149.1	180.8	166.0	176.6	152.3
45°	118.4	147.0	147.0	147.0	119.5
47.5°	65.6	98.3	125.8	100.4	69.8
50°	37.0	49.7	97.3	51.8	39.1
52.5°	25.4	28.5	66.6	29.6	26.4
55°	19.0	20.1	35.9	21.1	20.1
57.5°	14.8	15.9	19.0	15.9	14.8
60°	11.6	11.6	13.7	12.7	11.6
62.5°	8.5	8.5	9.5	8.5	8.5
65°	6.3	6.3	6.3	6.3	6.3
67.5°	3.2	4.2	4.2	4.2	4.2
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	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)