

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: P752239

Luminaire Tested: LD4D70BD010-EU4DR3070959030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752239
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-EU4DR3070959030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6972.4 lumens
Efficiency: N/A
Efficacy: 104.7 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

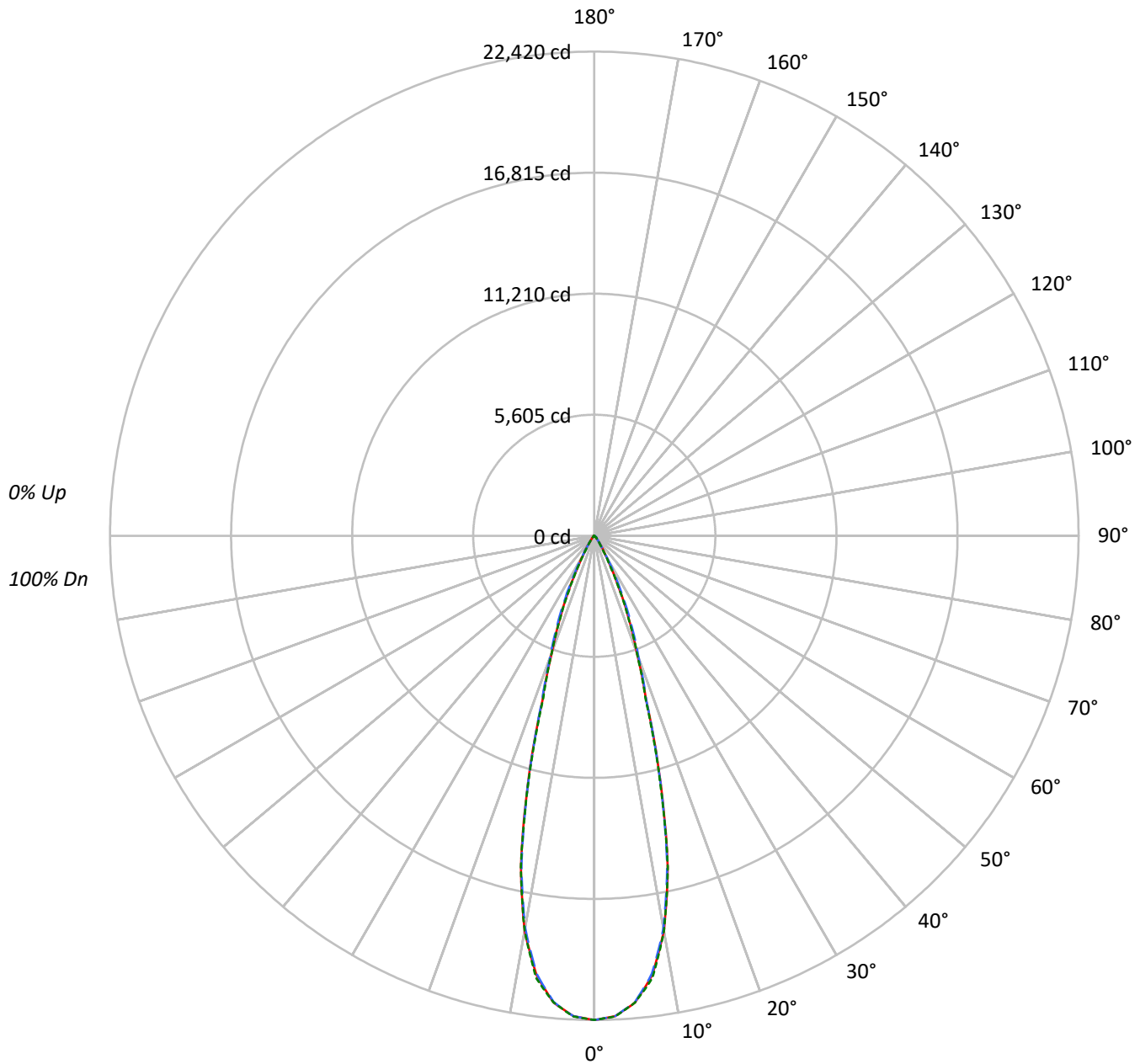


Downlight

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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°	1716072	1716072	1716072
5°	1666806	1664862	1666891
10°	1443711	1433530	1443370
15°	941944	936889	932182
20°	468387	485957	467760
25°	235937	266063	231106
30°	94466	102933	82304
35°	43815	41965	35172
40°	18915	21003	17816
45°	13347	16562	13466
50°	4585	12063	4847
55°	2642	4991	2789
60°	1852	2189	1852
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: 16562 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1971.5	28.3
10°-20°	3175.1	45.5
20°-30°	1372.0	19.7
30°-40°	312.7	4.5
40°-50°	107.4	1.5
50°-60°	26.2	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°	6518.6	93.5
0°-40°	6831.3	98.0
0°-60°	6964.9	99.9
0°-90°	6972.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6972.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22420	22420	22420	22420	22420	
5°	21693	21672	21668	21713	21694	1973
15°	11887	11744	11823	11784	11764	3183
25°	2794	2899	3150	2826	2736	1337
35°	469	479	449	446	376	318
45°	123	153	153	153	124	87
55°	20	21	37	22	21	19
65°	7	7	7	7	7	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°	22419.6	22419.6	22419.6	22419.6	22419.6
2.5°	22271.0	22255.6	22264.4	22275.4	22279.8
5°	21693.1	21672.2	21667.8	21712.9	21694.2
7.5°	20527.4	20497.7	20452.6	20555.0	20650.7
10°	18574.8	18541.7	18443.8	18492.2	18570.4
12.5°	15692.0	15585.2	15583.0	15737.1	15716.2
15°	11886.7	11743.6	11822.9	11784.4	11763.5
17.5°	7993.5	7938.4	8044.1	8012.2	7874.6
20°	5750.2	5764.5	5965.9	5864.7	5742.5
22.5°	4196.0	4247.7	4486.6	4225.7	4129.9
25°	2793.6	2899.3	3150.3	2825.6	2736.4
27.5°	1718.2	1766.7	2020.9	1696.2	1647.8
30°	1068.8	1044.6	1164.6	999.5	931.2
32.5°	701.2	670.3	708.9	636.2	581.2
35°	468.9	478.8	449.1	445.8	376.4
37.5°	292.8	336.8	297.2	317.0	242.2
40°	189.3	244.4	210.2	232.3	178.3
42.5°	155.2	188.2	172.8	183.8	158.5
45°	123.3	153.0	153.0	153.0	124.4
47.5°	68.2	102.4	131.0	104.6	72.6
50°	38.5	51.7	101.3	53.9	40.7
52.5°	26.4	29.7	69.3	30.8	27.5
55°	19.8	20.9	37.4	22.0	20.9
57.5°	15.4	16.5	19.8	16.5	15.4
60°	12.1	12.1	14.3	13.2	12.1
62.5°	8.8	8.8	9.9	8.8	8.8
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)