

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: P752249

Luminaire Tested: LD4D70BD010-EU4DR3070959035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752249
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-EU4DR3070959035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7028.2 lumens
Efficiency: N/A
Efficacy: 105.5 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

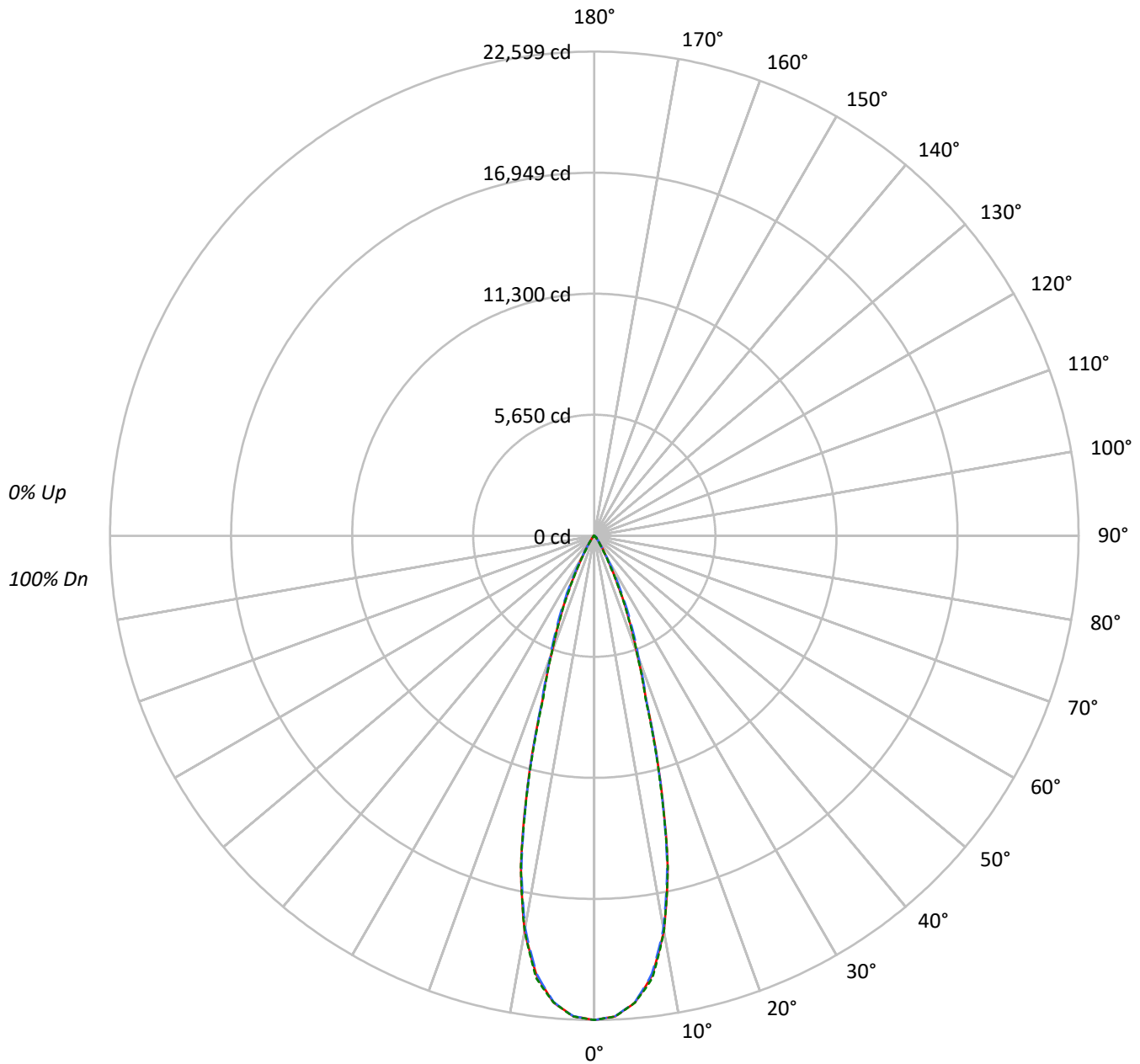


Downlight

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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°	1729812	1729812	1729812
5°	1680153	1678193	1680237
10°	1455269	1445002	1454919
15°	949488	944393	939646
20°	472134	489851	471507
25°	237829	268191	232956
30°	95226	103755	82967
35°	44170	42301	35461
40°	19065	21173	17956
45°	13455	16692	13574
50°	4620	12158	4894
55°	2669	5031	2816
60°	1868	2204	1868
65°	1213	1213	1213
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: 16692 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1987.2	28.3
10°-20°	3200.5	45.5
20°-30°	1383.0	19.7
30°-40°	315.2	4.5
40°-50°	108.2	1.5
50°-60°	26.4	0.4
60°-70°	6.9	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°	6570.7	93.5
0°-40°	6886.0	98.0
0°-60°	7020.6	99.9
0°-90°	7028.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7028.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22599	22599	22599	22599	22599	
5°	21867	21846	21841	21887	21868	1989
15°	11982	11838	11918	11879	11858	3208
25°	2816	2922	3176	2848	2758	1348
35°	473	483	453	449	380	321
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°	22599.1	22599.1	22599.1	22599.1	22599.1
2.5°	22449.3	22433.8	22442.7	22453.8	22458.2
5°	21866.8	21845.7	21841.3	21886.8	21867.9
7.5°	20691.8	20661.8	20616.4	20719.5	20816.1
10°	18723.5	18690.2	18591.4	18640.3	18719.0
12.5°	15817.6	15710.0	15707.8	15863.1	15842.0
15°	11981.9	11837.7	11917.6	11878.7	11857.7
17.5°	8057.5	8002.0	8108.5	8076.3	7937.6
20°	5796.2	5810.7	6013.7	5911.6	5788.5
22.5°	4229.6	4281.7	4522.5	4259.5	4163.0
25°	2816.0	2922.5	3175.5	2848.2	2758.3
27.5°	1732.0	1780.8	2037.1	1709.8	1661.0
30°	1077.4	1053.0	1173.9	1007.5	938.7
32.5°	706.8	675.7	714.5	641.3	585.8
35°	472.7	482.6	452.7	449.4	379.5
37.5°	295.1	339.5	299.6	319.5	244.1
40°	190.8	246.3	211.9	234.1	179.7
42.5°	156.4	189.7	174.2	185.3	159.8
45°	124.3	154.2	154.2	154.2	125.4
47.5°	68.8	103.2	132.0	105.4	73.2
50°	38.8	52.1	102.1	54.4	41.1
52.5°	26.6	30.0	69.9	31.1	27.7
55°	20.0	21.1	37.7	22.2	21.1
57.5°	15.5	16.6	20.0	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°	6.7	6.7	6.7	6.7	6.7
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)