

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: P752208

Luminaire Tested: LD4D70BD010-EU4DR3070959024-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752208
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-EU4DR3070959024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4569.6 lumens
Efficiency: N/A
Efficacy: 68.6 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 (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

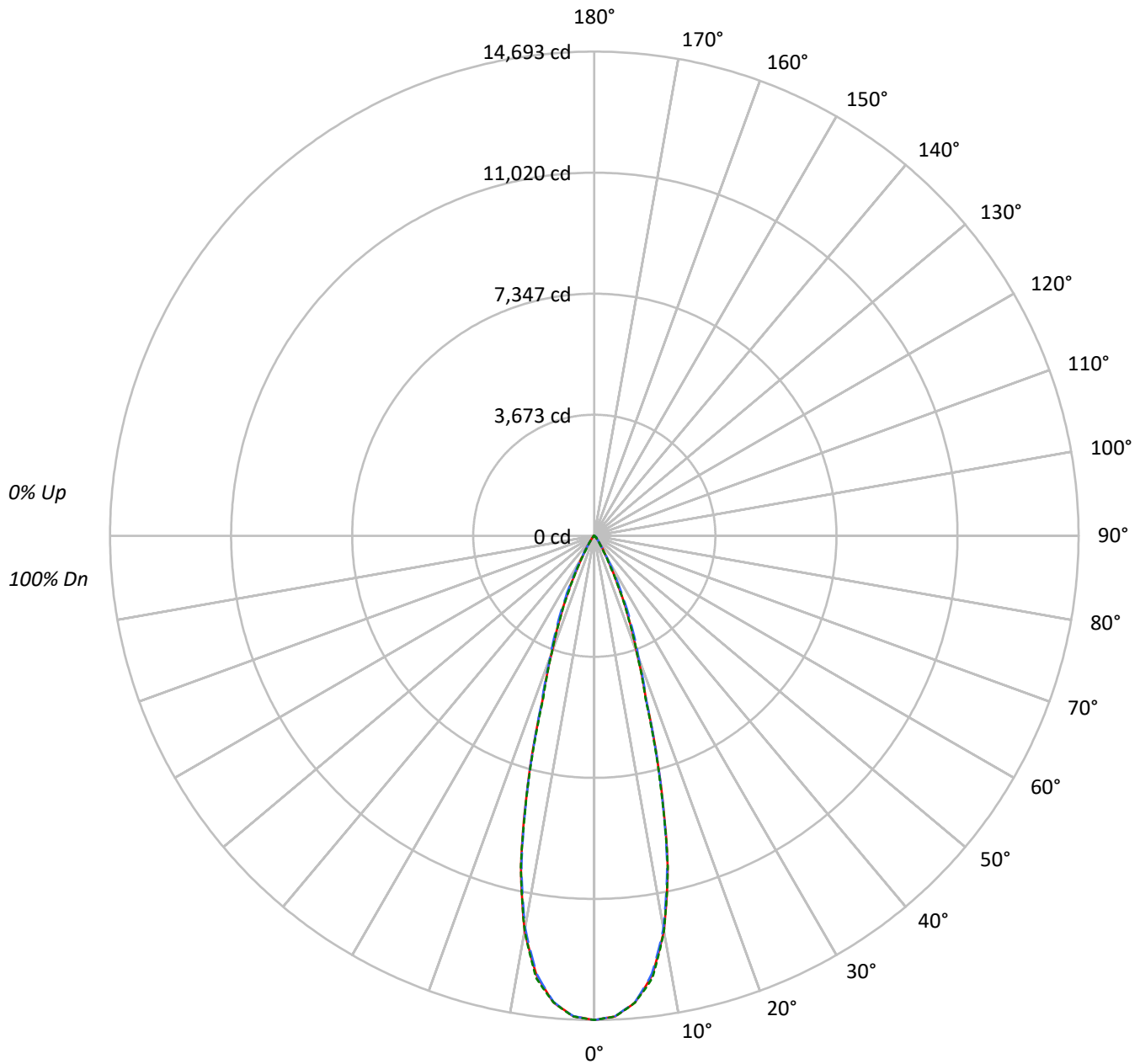


Downlight

TEST NUMBER: P752208

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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°	1124683	1124683	1124683
5°	1092397	1091122	1092451
10°	946176	939507	945958
15°	617331	614019	610936
20°	306974	318492	306559
25°	154631	174368	151464
30°	61913	67455	53941
35°	28715	27500	23052
40°	12400	13769	11681
45°	8746	10857	8822
50°	3001	7907	3179
55°	1735	3270	1828
60°	1209	1439	1209
65°	779	779	779
70°	492	313	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10857 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1292.1	28.3
10°-20°	2080.9	45.5
20°-30°	899.2	19.7
30°-40°	204.9	4.5
40°-50°	70.4	1.5
50°-60°	17.2	0.4
60°-70°	4.5	0.1
70°-80°	0.5	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°	4272.1	93.5
0°-40°	4477.1	98.0
0°-60°	4564.6	99.9
0°-90°	4569.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4569.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14693	14693	14693	14693	14693	
5°	14217	14204	14201	14230	14218	1293
15°	7790	7697	7748	7723	7710	2086
25°	1831	1900	2065	1852	1793	876
35°	307	314	294	292	247	208
45°	81	100	100	100	82	57
55°	13	14	24	14	14	13
65°	4	4	4	4	4	4
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°	14693.4	14693.4	14693.4	14693.4	14693.4
2.5°	14596.0	14585.9	14591.7	14598.9	14601.8
5°	14217.3	14203.6	14200.7	14230.2	14218.0
7.5°	13453.3	13433.8	13404.2	13471.3	13534.1
10°	12173.5	12151.9	12087.7	12119.4	12170.7
12.5°	10284.2	10214.2	10212.8	10313.8	10300.1
15°	7790.3	7696.6	7748.5	7723.3	7709.6
17.5°	5238.8	5202.7	5272.0	5251.0	5160.9
20°	3768.6	3777.9	3910.0	3843.6	3763.5
22.5°	2750.0	2783.9	2940.4	2769.4	2706.7
25°	1830.9	1900.2	2064.6	1851.8	1793.4
27.5°	1126.1	1157.8	1324.5	1111.7	1079.9
30°	700.5	684.6	763.2	655.0	610.3
32.5°	459.5	439.3	464.6	417.0	380.9
35°	307.3	313.8	294.3	292.2	246.7
37.5°	191.9	220.7	194.8	207.8	158.7
40°	124.1	160.1	137.8	152.2	116.9
42.5°	101.7	123.4	113.3	120.5	103.9
45°	80.8	100.3	100.3	100.3	81.5
47.5°	44.7	67.1	85.8	68.5	47.6
50°	25.2	33.9	66.4	35.3	26.7
52.5°	17.3	19.5	45.4	20.2	18.0
55°	13.0	13.7	24.5	14.4	13.7
57.5°	10.1	10.8	13.0	10.8	10.1
60°	7.9	7.9	9.4	8.7	7.9
62.5°	5.8	5.8	6.5	5.8	5.8
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.4	1.4	1.4	2.2
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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)