

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: P752209

Luminaire Tested: LD4D70BD010-EU4DR3070959024-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752209
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-EU4DR3070959024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5675.8 lumens
Efficiency: N/A
Efficacy: 85.2 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

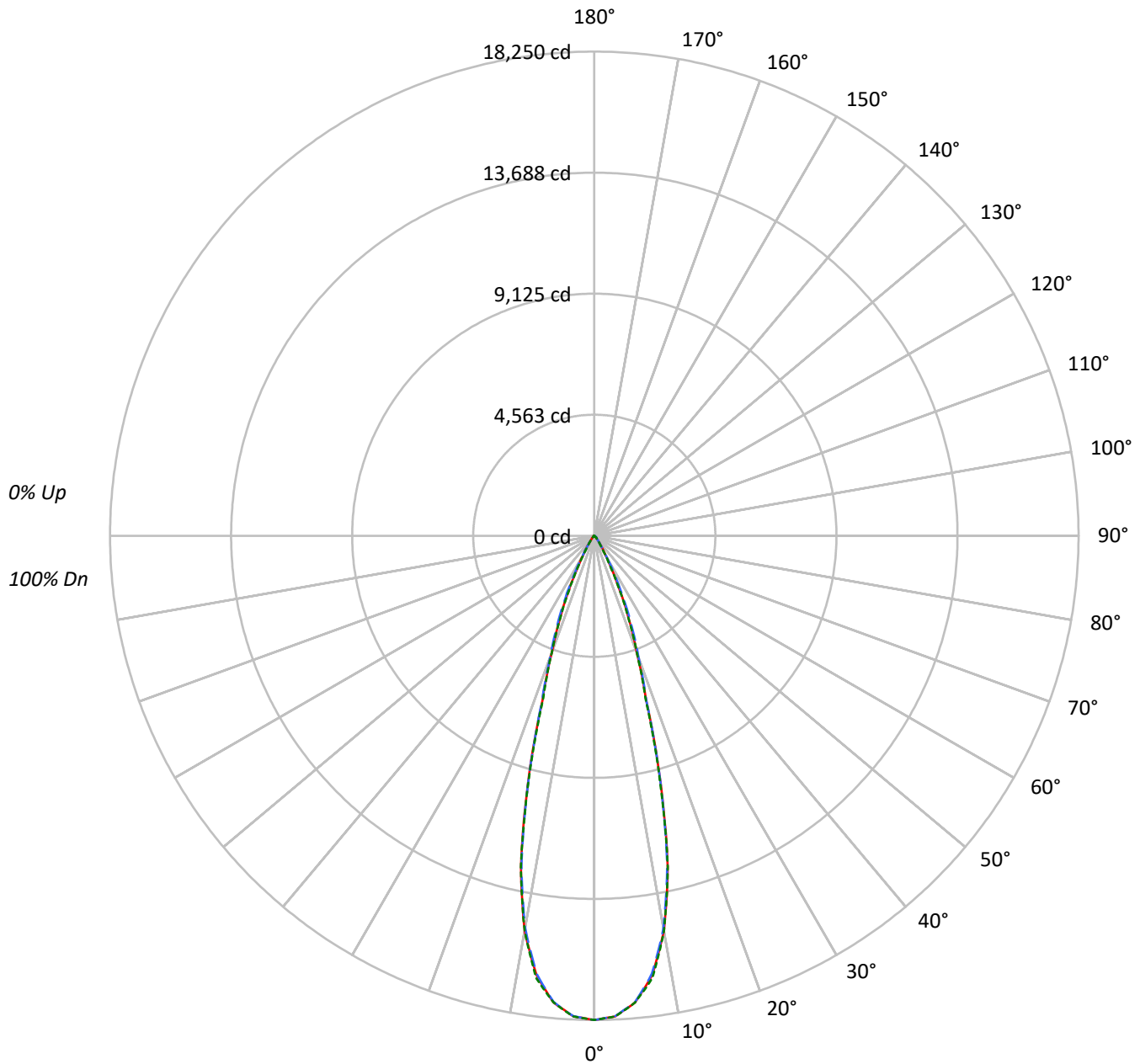


Downlight

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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°	1396955	1396955	1396955
5°	1356858	1355268	1356928
10°	1175244	1166951	1174965
15°	766784	762672	758836
20°	381286	395590	380773
25°	192062	216588	188135
30°	76904	83789	66996
35°	35667	34162	28631
40°	15398	17096	14508
45°	10868	13477	10966
50°	3739	9812	3953
55°	2149	4070	2269
60°	1516	1776	1516
65°	978	978	978
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13477 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1604.9	28.3
10°-20°	2584.6	45.5
20°-30°	1116.9	19.7
30°-40°	254.6	4.5
40°-50°	87.4	1.5
50°-60°	21.3	0.4
60°-70°	5.6	0.1
70°-80°	0.6	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°	5306.4	93.5
0°-40°	5560.9	98.0
0°-60°	5669.7	99.9
0°-90°	5675.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5675.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18250	18250	18250	18250	18250	
5°	17659	17642	17638	17675	17660	1606
15°	9676	9560	9624	9593	9576	2591
25°	2274	2360	2564	2300	2228	1089
35°	382	390	366	363	306	259
45°	100	124	124	124	101	71
55°	16	17	30	18	17	16
65°	5	5	5	5	5	5
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°	18250.5	18250.5	18250.5	18250.5	18250.5
2.5°	18129.6	18117.0	18124.2	18133.2	18136.7
5°	17659.2	17642.1	17638.5	17675.3	17660.1
7.5°	16710.3	16686.1	16649.3	16732.7	16810.6
10°	15120.7	15093.8	15014.0	15053.5	15117.1
12.5°	12773.9	12687.0	12685.2	12810.7	12793.7
15°	9676.3	9559.9	9624.4	9593.0	9576.0
17.5°	6507.0	6462.2	6548.3	6522.3	6410.3
20°	4680.9	4692.6	4856.5	4774.1	4674.6
22.5°	3415.7	3457.8	3652.3	3439.9	3361.9
25°	2274.1	2360.2	2564.5	2300.1	2227.6
27.5°	1398.7	1438.1	1645.1	1380.8	1341.4
30°	870.1	850.3	948.0	813.6	758.0
32.5°	570.8	545.7	577.0	517.9	473.1
35°	381.7	389.8	365.6	362.9	306.4
37.5°	238.3	274.2	241.9	258.1	197.1
40°	154.1	198.9	171.1	189.1	145.2
42.5°	126.3	153.2	140.7	149.6	129.0
45°	100.4	124.5	124.5	124.5	101.3
47.5°	55.6	83.3	106.6	85.1	59.1
50°	31.4	42.1	82.4	43.9	33.2
52.5°	21.5	24.2	56.5	25.1	22.4
55°	16.1	17.0	30.5	17.9	17.0
57.5°	12.5	13.4	16.1	13.4	12.5
60°	9.9	9.9	11.6	10.8	9.9
62.5°	7.2	7.2	8.1	7.2	7.2
65°	5.4	5.4	5.4	5.4	5.4
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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)