

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: P752225

Luminaire Tested: LD4D70BD010-EU4DR3070959027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752225
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-EU4DR3070959027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6345.4 lumens
Efficiency: N/A
Efficacy: 95.3 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

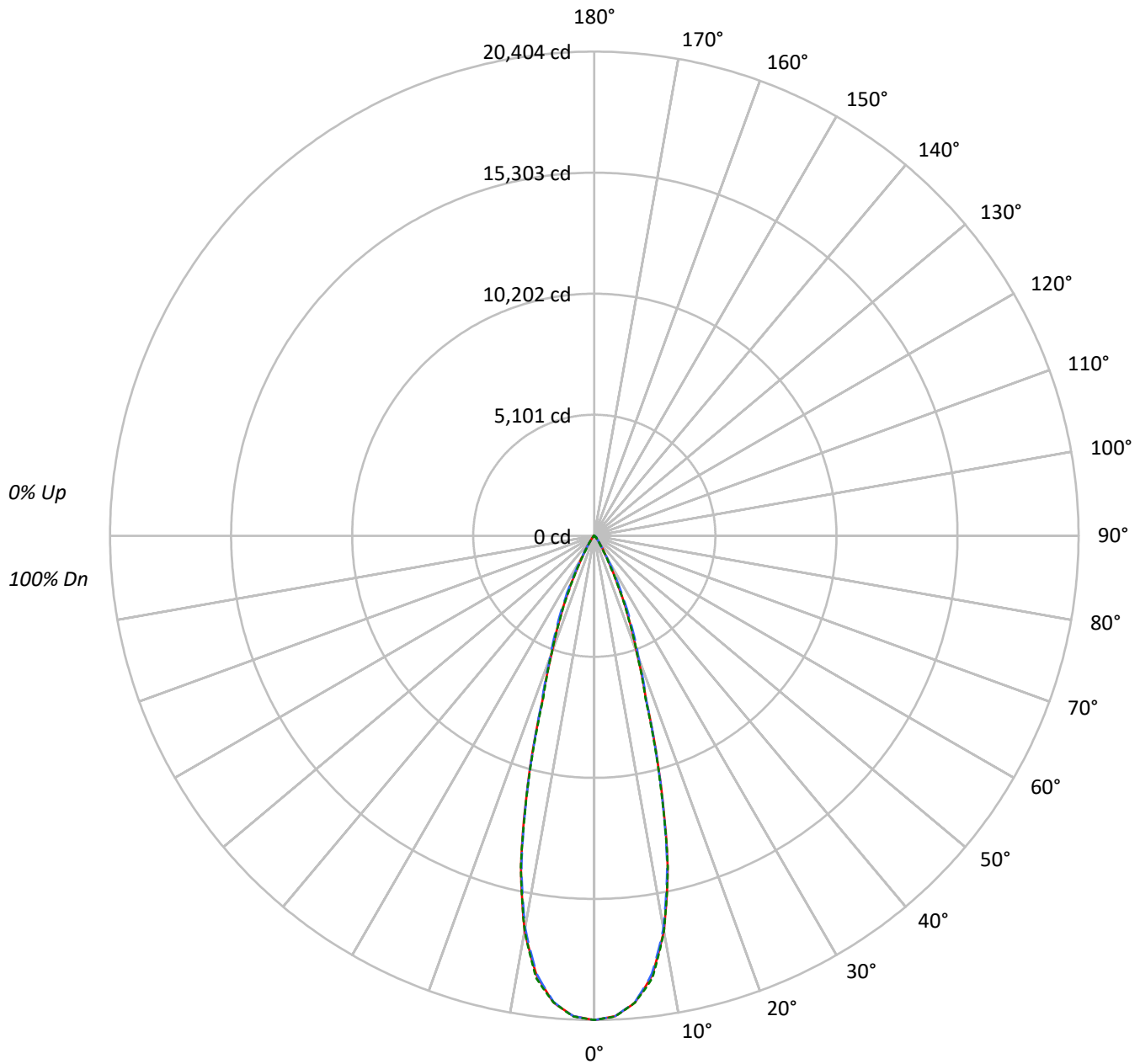


Downlight

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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°	1561753	1561753	1561753
5°	1516923	1515155	1517000
10°	1313881	1304616	1313570
15°	857241	852637	848358
20°	426266	442264	425696
25°	214722	242136	210322
30°	85972	93670	74906
35°	39872	38190	32013
40°	17216	19115	16217
45°	12146	15068	12254
50°	4180	10979	4418
55°	2402	4551	2536
60°	1684	1990	1684
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15068 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1794.2	28.3
10°-20°	2889.5	45.5
20°-30°	1248.6	19.7
30°-40°	284.6	4.5
40°-50°	97.7	1.5
50°-60°	23.9	0.4
60°-70°	6.2	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°	5932.4	93.5
0°-40°	6217.0	98.0
0°-60°	6338.5	99.9
0°-90°	6345.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6345.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20404	20404	20404	20404	20404	
5°	19742	19723	19719	19760	19743	1796
15°	10818	10688	10760	10725	10706	2897
25°	2542	2639	2867	2572	2490	1217
35°	427	436	409	406	343	289
45°	112	139	139	139	113	80
55°	18	19	34	20	19	18
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°	20403.5	20403.5	20403.5	20403.5	20403.5
2.5°	20268.3	20254.3	20262.3	20272.3	20276.3
5°	19742.4	19723.4	19719.4	19760.4	19743.4
7.5°	18681.5	18654.5	18613.4	18706.6	18793.7
10°	16904.4	16874.4	16785.2	16829.3	16900.4
12.5°	14280.9	14183.7	14181.7	14322.0	14302.9
15°	10817.8	10687.6	10759.7	10724.7	10705.7
17.5°	7274.7	7224.6	7320.8	7291.7	7166.5
20°	5233.1	5246.1	5429.5	5337.3	5226.1
22.5°	3818.7	3865.7	4083.1	3845.7	3758.5
25°	2542.4	2638.6	2867.0	2571.5	2490.3
27.5°	1563.7	1607.8	1839.2	1543.7	1499.6
30°	972.7	950.7	1059.8	909.6	847.5
32.5°	638.1	610.1	645.1	579.0	528.9
35°	426.7	435.8	408.7	405.7	342.6
37.5°	266.5	306.5	270.5	288.5	220.4
40°	172.3	222.4	191.3	211.4	162.3
42.5°	141.2	171.3	157.3	167.3	144.3
45°	112.2	139.2	139.2	139.2	113.2
47.5°	62.1	93.2	119.2	95.2	66.1
50°	35.1	47.1	92.2	49.1	37.1
52.5°	24.0	27.0	63.1	28.0	25.0
55°	18.0	19.0	34.1	20.0	19.0
57.5°	14.0	15.0	18.0	15.0	14.0
60°	11.0	11.0	13.0	12.0	11.0
62.5°	8.0	8.0	9.0	8.0	8.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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)