

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: P756112

Luminaire Tested: LD4D95BD010-EU4DR3070959024-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756112
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: LD4D95BD010-EU4DR3070959024-4LBS1B
Description: 4 INCH ROUND SHALLOW 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: 7270.3 lumens
Efficiency: N/A
Efficacy: 73.3 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): 99.2
Input Voltage (V): NR
Input Current (A_{in}): 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

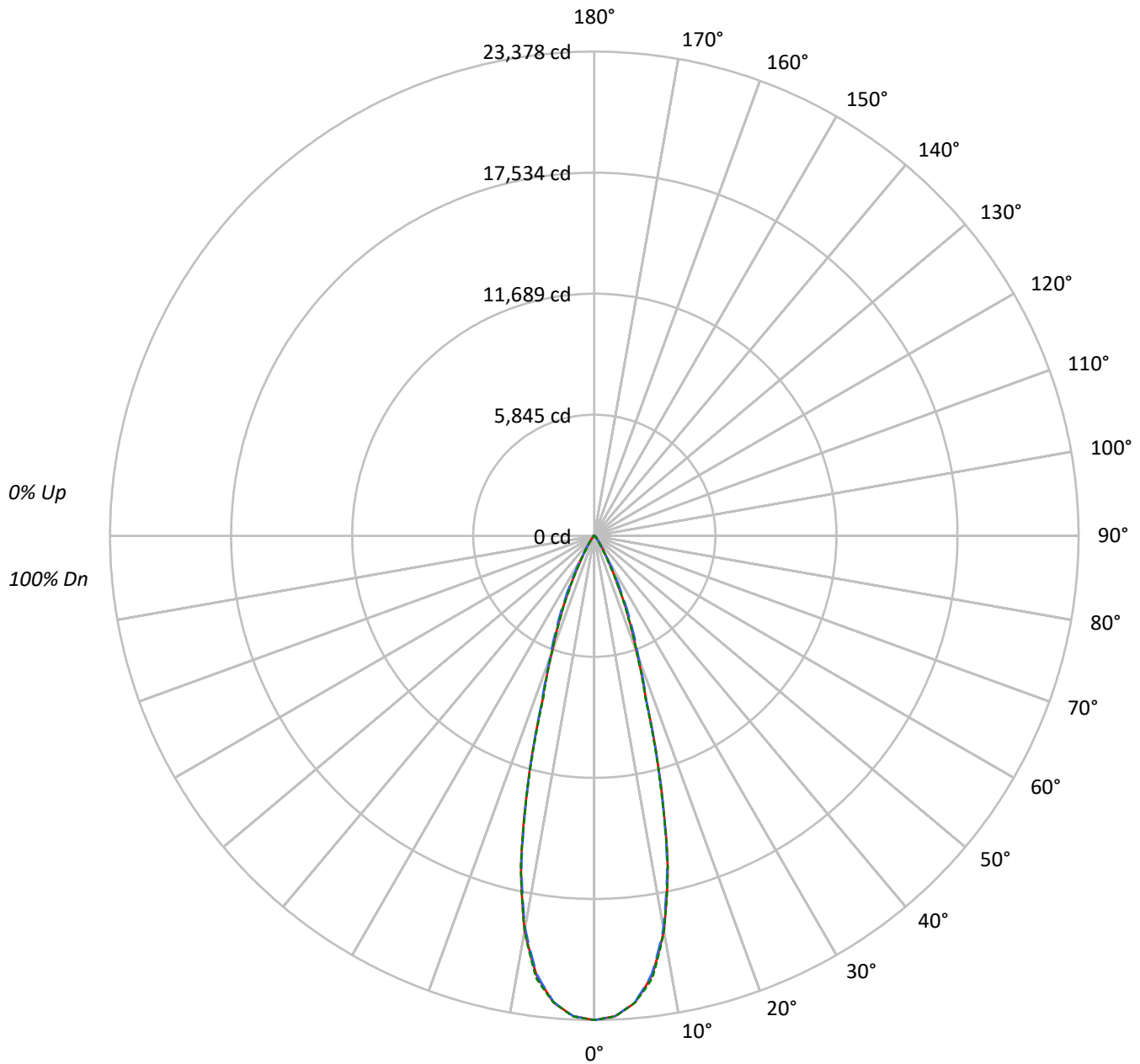


Downlight

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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°	1789393	1789393	1789393
5°	1738025	1735997	1738110
10°	1505393	1494776	1505036
15°	982192	976922	972009
20°	488401	506720	487741
25°	246021	277430	240979
30°	98505	107326	85822
35°	45684	43759	36676
40°	19724	21903	18575
45°	13910	17266	14040
50°	4787	12575	5061
55°	2762	5205	2909
60°	1929	2281	1929
65°	1250	1250	1250
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 17266 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2055.7	28.3
10°-20°	3310.7	45.5
20°-30°	1430.6	19.7
30°-40°	326.1	4.5
40°-50°	112.0	1.5
50°-60°	27.3	0.4
60°-70°	7.1	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°	6797.1	93.5
0°-40°	7123.1	98.0
0°-60°	7262.4	99.9
0°-90°	7270.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7270.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23378	23378	23378	23378	23378	
5°	22620	22598	22594	22641	22621	2057
15°	12395	12245	12328	12288	12266	3319
25°	2913	3023	3285	2946	2853	1394
35°	489	499	468	465	392	332
45°	128	160	160	160	130	91
55°	21	22	39	23	22	20
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°	23377.5	23377.5	23377.5	23377.5	23377.5
2.5°	23222.6	23206.5	23215.7	23227.2	23231.7
5°	22620.0	22598.2	22593.6	22640.7	22621.1
7.5°	21404.5	21373.5	21326.5	21433.2	21533.1
10°	19368.4	19334.0	19231.8	19282.3	19363.8
12.5°	16362.4	16251.1	16248.8	16409.5	16387.7
15°	12394.6	12245.4	12328.1	12287.9	12266.1
17.5°	8335.0	8277.6	8387.8	8354.5	8211.1
20°	5995.9	6010.8	6220.8	6115.2	5987.8
22.5°	4375.2	4429.2	4678.3	4406.2	4306.4
25°	2913.0	3023.2	3284.9	2946.3	2853.3
27.5°	1791.6	1842.1	2107.3	1768.7	1718.2
30°	1114.5	1089.2	1214.3	1042.2	971.0
32.5°	731.1	699.0	739.2	663.4	606.0
35°	488.9	499.3	468.3	464.8	392.5
37.5°	305.3	351.2	309.9	330.6	252.5
40°	197.4	254.8	219.2	242.2	185.9
42.5°	161.8	196.3	180.2	191.7	165.3
45°	128.5	159.5	159.5	159.5	129.7
47.5°	71.2	106.7	136.6	109.0	75.8
50°	40.2	53.9	105.6	56.2	42.5
52.5°	27.5	31.0	72.3	32.1	28.7
55°	20.7	21.8	39.0	23.0	21.8
57.5°	16.1	17.2	20.7	17.2	16.1
60°	12.6	12.6	14.9	13.8	12.6
62.5°	9.2	9.2	10.3	9.2	9.2
65°	6.9	6.9	6.9	6.9	6.9
67.5°	3.4	4.6	4.6	4.6	4.6
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	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)