

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: P756151

Luminaire Tested: LD4D95BD010-EU4DR3070959035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756151
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-EU4DR3070959035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8573.9 lumens
Efficiency: N/A
Efficacy: 86.4 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 (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

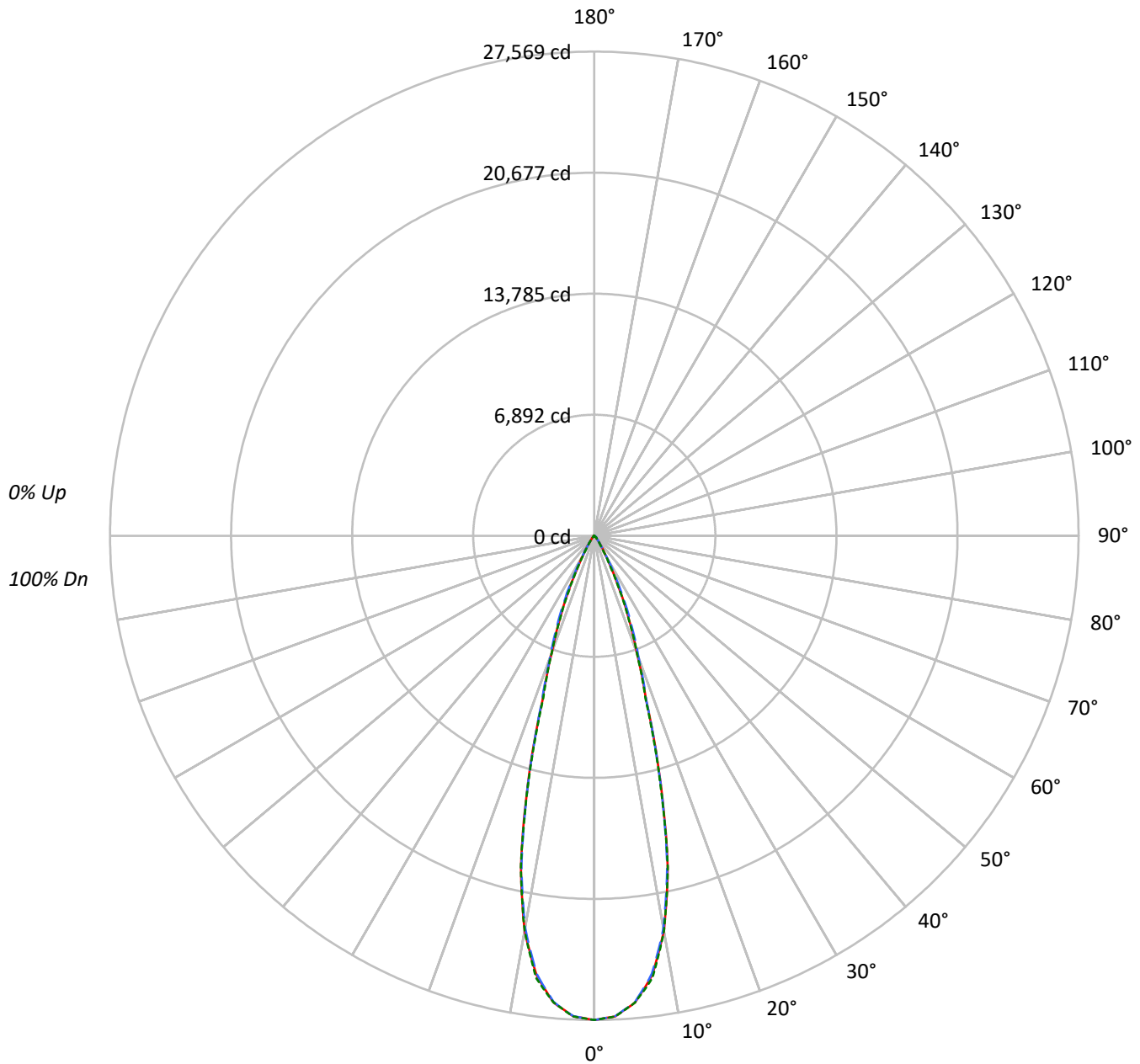


Downlight

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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					0
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°	2110240	2110240	2110240
5°	2049664	2047266	2049763
10°	1775314	1762800	1774894
15°	1158303	1152082	1146290
20°	575974	597584	575200
25°	290133	327175	284187
30°	116164	126576	101209
35°	53879	51608	43254
40°	23261	25829	21913
45°	16411	20362	16562
50°	5644	14826	5966
55°	3256	6139	3430
60°	2281	2694	2281
65°	1467	1467	1467
70°	918	604	918
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 20362 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2424.3	28.3
10°-20°	3904.3	45.5
20°-30°	1687.2	19.7
30°-40°	384.5	4.5
40°-50°	132.0	1.5
50°-60°	32.2	0.4
60°-70°	8.3	0.1
70°-80°	0.9	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°	8015.8	93.5
0°-40°	8400.4	98.0
0°-60°	8564.6	99.9
0°-90°	8573.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8573.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27569	27569	27569	27569	27569	
5°	26676	26650	26645	26700	26677	2426
15°	14617	14441	14538	14491	14465	3914
25°	3435	3565	3874	3475	3365	1644
35°	577	589	552	548	463	391
45°	152	188	188	188	153	108
55°	24	26	46	27	26	24
65°	8	8	8	8	8	8
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°	27569.2	27569.2	27569.2	27569.2	27569.2
2.5°	27386.5	27367.5	27378.4	27391.9	27397.3
5°	26675.9	26650.2	26644.7	26700.2	26677.2
7.5°	25242.5	25205.9	25150.4	25276.3	25394.1
10°	22841.2	22800.6	22680.2	22739.7	22835.8
12.5°	19296.3	19165.0	19162.3	19351.8	19326.1
15°	14617.0	14441.1	14538.5	14491.2	14465.4
17.5°	9829.5	9761.8	9891.8	9852.5	9683.3
20°	7071.0	7088.6	7336.3	7211.7	7061.5
22.5°	5159.8	5223.4	5517.1	5196.3	5078.5
25°	3435.3	3565.3	3873.9	3474.6	3364.9
27.5°	2112.9	2172.5	2485.1	2085.8	2026.3
30°	1314.3	1284.5	1432.1	1229.0	1145.1
32.5°	862.2	824.3	871.7	782.4	714.7
35°	576.6	588.8	552.3	548.2	462.9
37.5°	360.0	414.2	365.5	389.8	297.8
40°	232.8	300.5	258.5	285.6	219.3
42.5°	190.9	231.5	212.5	226.0	194.9
45°	151.6	188.1	188.1	188.1	153.0
47.5°	83.9	125.9	161.1	128.6	89.3
50°	47.4	63.6	124.5	66.3	50.1
52.5°	32.5	36.5	85.3	37.9	33.8
55°	24.4	25.7	46.0	27.1	25.7
57.5°	18.9	20.3	24.4	20.3	18.9
60°	14.9	14.9	17.6	16.2	14.9
62.5°	10.8	10.8	12.2	10.8	10.8
65°	8.1	8.1	8.1	8.1	8.1
67.5°	4.1	5.4	5.4	5.4	5.4
70°	4.1	2.7	2.7	2.7	4.1
72.5°	2.7	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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)