

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: P756109

Luminaire Tested: LD4D95BD010-EU4DR3070959024-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756109
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-EU4DR3070959024-4LBDP1H
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: 7366.6 lumens
Efficiency: N/A
Efficacy: 74.3 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 (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

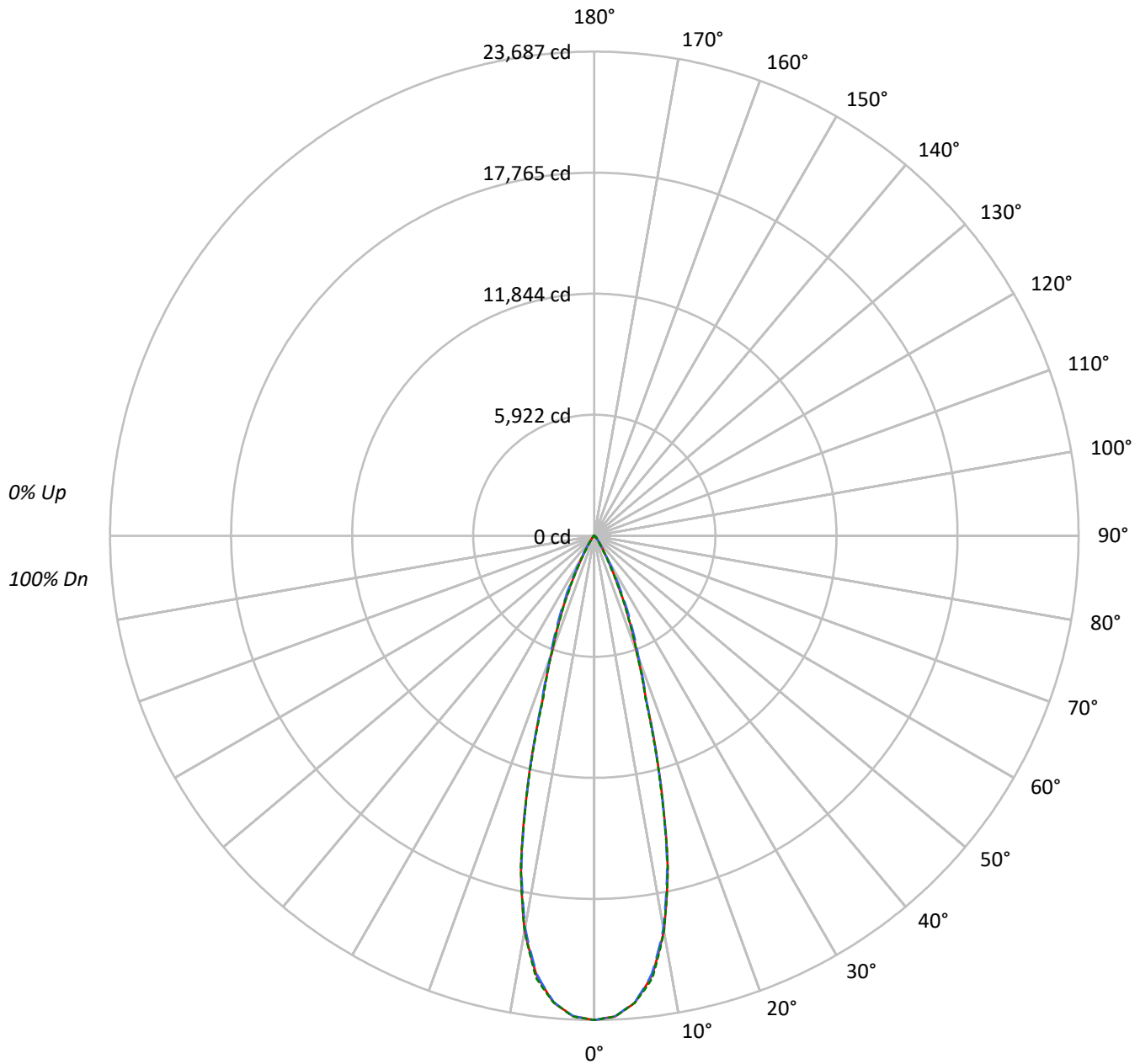


Downlight

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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°	1813099	1813099	1813099
5°	1761053	1758994	1761138
10°	1525337	1514580	1524972
15°	995204	989863	984886
20°	494868	513440	494209
25°	249281	281104	244172
30°	99804	108749	86962
35°	46291	44338	37162
40°	19984	22192	18825
45°	14105	17504	14224
50°	4847	12742	5120
55°	2789	5271	2949
60°	1960	2312	1960
65°	1268	1268	1268
70°	783	515	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 17504 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2082.9	28.3
10°-20°	3354.6	45.5
20°-30°	1449.6	19.7
30°-40°	330.4	4.5
40°-50°	113.5	1.5
50°-60°	27.7	0.4
60°-70°	7.2	0.1
70°-80°	0.8	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°	6887.1	93.5
0°-40°	7217.5	98.0
0°-60°	7358.7	99.9
0°-90°	7366.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7366.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23687	23687	23687	23687	23687	
5°	22920	22898	22893	22941	22921	2085
15°	12559	12408	12491	12451	12429	3363
25°	2952	3063	3328	2985	2891	1413
35°	495	506	474	471	398	336
45°	130	162	162	162	131	92
55°	21	22	40	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°	23687.2	23687.2	23687.2	23687.2	23687.2
2.5°	23530.2	23513.9	23523.2	23534.9	23539.5
5°	22919.7	22897.6	22892.9	22940.6	22920.8
7.5°	21688.1	21656.7	21609.0	21717.2	21818.3
10°	19625.0	19590.1	19486.6	19537.8	19620.3
12.5°	16579.2	16466.4	16464.1	16626.9	16604.8
15°	12558.8	12407.6	12491.4	12450.7	12428.6
17.5°	8445.4	8387.3	8498.9	8465.2	8319.8
20°	6075.3	6090.4	6303.3	6196.3	6067.2
22.5°	4433.2	4487.9	4740.2	4464.6	4363.4
25°	2951.6	3063.2	3328.4	2985.3	2891.1
27.5°	1815.4	1866.6	2135.2	1792.1	1741.0
30°	1129.2	1103.7	1230.4	1056.0	983.9
32.5°	740.8	708.2	748.9	672.2	614.0
35°	495.4	505.9	474.5	471.0	397.7
37.5°	309.3	355.9	314.0	334.9	255.9
40°	200.0	258.2	222.1	245.4	188.4
42.5°	164.0	198.9	182.6	194.2	167.5
45°	130.3	161.7	161.7	161.7	131.4
47.5°	72.1	108.2	138.4	110.5	76.8
50°	40.7	54.7	107.0	57.0	43.0
52.5°	27.9	31.4	73.3	32.6	29.1
55°	20.9	22.1	39.5	23.3	22.1
57.5°	16.3	17.4	20.9	17.4	16.3
60°	12.8	12.8	15.1	14.0	12.8
62.5°	9.3	9.3	10.5	9.3	9.3
65°	7.0	7.0	7.0	7.0	7.0
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.3	2.3	2.3	3.5
72.5°	2.3	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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)