

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: P756139

Luminaire Tested: LD4D95BD010-EU4DR3070959030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756139
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-EU4DR3070959030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9049.4 lumens
Efficiency: N/A
Efficacy: 91.2 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): 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

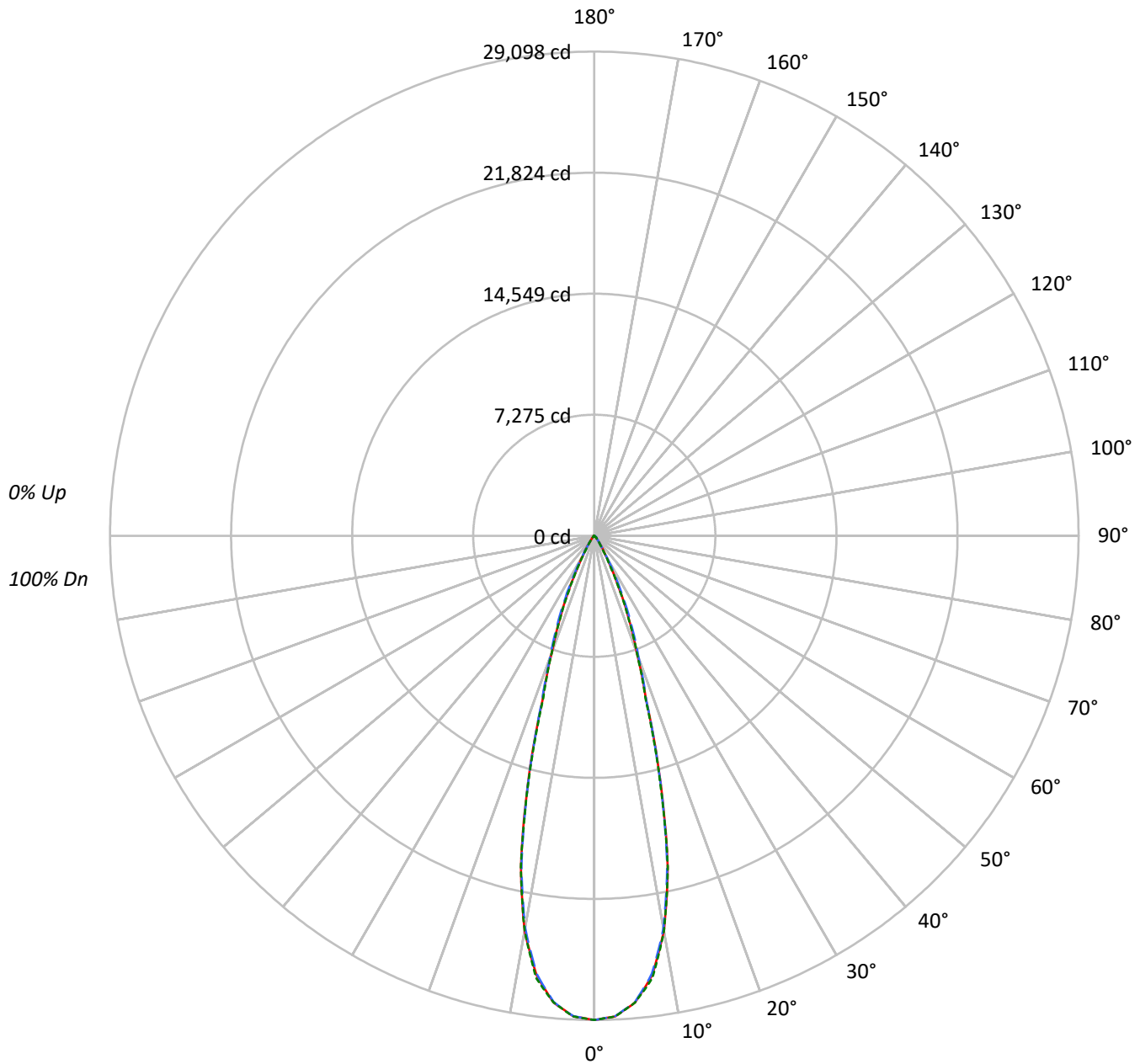


Downlight

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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	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°	2227275	2227275	2227275
5°	2163334	2160807	2163442
10°	1873775	1860562	1873332
15°	1222546	1215976	1209867
20°	607913	630720	607098
25°	306222	345316	299955
30°	122607	133593	106822
35°	56869	54467	45656
40°	24550	27268	23122
45°	17320	21498	17471
50°	5954	15647	6299
55°	3430	6486	3616
60°	2403	2847	2403
65°	1558	1558	1558
70°	962	649	962
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 21498 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2558.7	28.3
10°-20°	4120.9	45.5
20°-30°	1780.7	19.7
30°-40°	405.9	4.5
40°-50°	139.4	1.5
50°-60°	34.0	0.4
60°-70°	8.8	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°	8460.4	93.5
0°-40°	8866.2	98.0
0°-60°	9039.6	99.9
0°-90°	9049.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9049.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29098	29098	29098	29098	29098	
5°	28155	28128	28122	28181	28157	2561
15°	15428	15242	15345	15295	15268	4131
25°	3626	3763	4089	3667	3552	1736
35°	609	622	583	579	489	413
45°	160	199	199	199	161	114
55°	26	27	49	29	27	25
65°	9	9	9	9	9	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°	29098.2	29098.2	29098.2	29098.2	29098.2
2.5°	28905.3	28885.3	28896.8	28911.0	28916.8
5°	28155.3	28128.2	28122.4	28181.0	28156.7
7.5°	26642.4	26603.8	26545.2	26678.1	26802.4
10°	24108.0	24065.2	23938.0	24000.9	24102.3
12.5°	20366.4	20227.9	20225.0	20425.0	20397.9
15°	15427.7	15242.0	15344.8	15294.8	15267.7
17.5°	10374.7	10303.2	10440.4	10398.9	10220.4
20°	7463.1	7481.7	7743.1	7611.7	7453.1
22.5°	5445.9	5513.1	5823.1	5484.5	5360.2
25°	3625.8	3763.0	4088.7	3667.3	3551.6
27.5°	2230.1	2292.9	2623.0	2201.5	2138.6
30°	1387.2	1355.8	1511.5	1297.2	1208.6
32.5°	910.0	870.0	920.0	825.7	754.3
35°	608.6	621.5	582.9	578.6	488.6
37.5°	380.0	437.2	385.7	411.4	314.3
40°	245.7	317.2	272.9	301.4	231.4
42.5°	201.4	244.3	224.3	238.6	205.7
45°	160.0	198.6	198.6	198.6	161.4
47.5°	88.6	132.9	170.0	135.7	94.3
50°	50.0	67.1	131.4	70.0	52.9
52.5°	34.3	38.6	90.0	40.0	35.7
55°	25.7	27.1	48.6	28.6	27.1
57.5°	20.0	21.4	25.7	21.4	20.0
60°	15.7	15.7	18.6	17.1	15.7
62.5°	11.4	11.4	12.9	11.4	11.4
65°	8.6	8.6	8.6	8.6	8.6
67.5°	4.3	5.7	5.7	5.7	5.7
70°	4.3	2.9	2.9	2.9	4.3
72.5°	2.9	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)