

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: P756175

Luminaire Tested: LD4D95BD010-EU4DR3070959050-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756175
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-EU4DR3070959050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9616.5 lumens
Efficiency: N/A
Efficacy: 96.9 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

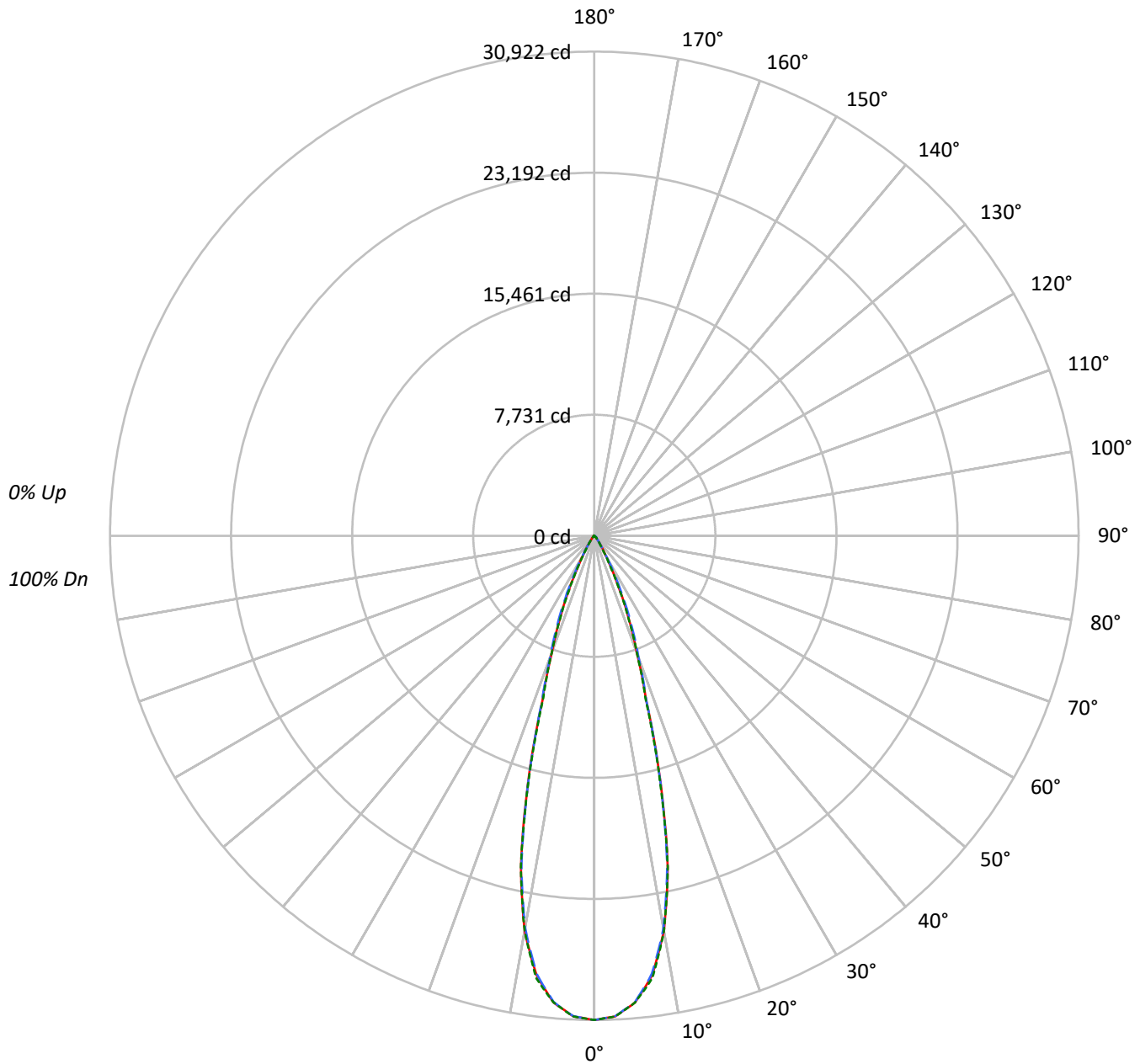


Downlight

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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	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°	2366860	2366860	2366860
5°	2298911	2296230	2299026
10°	1991209	1977164	1990734
15°	1299166	1292185	1285687
20°	646010	670251	645146
25°	325419	366963	318746
30°	130288	141964	113521
35°	60429	57878	48515
40°	26089	28977	24570
45°	18402	22840	18575
50°	6323	16636	6692
55°	3643	6886	3843
60°	2557	3016	2557
65°	1648	1648	1648
70°	1029	671	1029
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 22840 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2719.1	28.3
10°-20°	4379.1	45.5
20°-30°	1892.3	19.7
30°-40°	431.3	4.5
40°-50°	148.1	1.5
50°-60°	36.2	0.4
60°-70°	9.4	0.1
70°-80°	1.0	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°	8990.6	93.5
0°-40°	9421.9	98.0
0°-60°	9606.2	99.9
0°-90°	9616.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9616.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30922	30922	30922	30922	30922	
5°	29920	29891	29885	29947	29921	2721
15°	16395	16197	16306	16253	16224	4390
25°	3853	3999	4345	3897	3774	1844
35°	647	660	619	615	519	439
45°	170	211	211	211	172	121
55°	27	29	52	30	29	27
65°	9	9	9	9	9	9
75°	0	0	2	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°	30921.8	30921.8	30921.8	30921.8	30921.8
2.5°	30716.8	30695.6	30707.7	30722.9	30729.0
5°	29919.8	29890.9	29884.9	29947.1	29921.3
7.5°	28312.1	28271.1	28208.8	28350.0	28482.1
10°	25618.9	25573.3	25438.2	25505.0	25612.8
12.5°	21642.8	21495.6	21492.5	21705.1	21676.2
15°	16394.6	16197.2	16306.5	16253.4	16224.5
17.5°	11024.8	10948.9	11094.7	11050.6	10860.9
20°	7930.8	7950.6	8228.4	8088.7	7920.2
22.5°	5787.2	5858.6	6188.0	5828.2	5696.1
25°	3853.1	3998.8	4345.0	3897.1	3774.1
27.5°	2369.8	2436.6	2787.3	2339.5	2272.7
30°	1474.1	1440.7	1606.2	1378.5	1284.4
32.5°	967.1	924.6	977.7	877.5	801.6
35°	646.7	660.4	619.4	614.9	519.2
37.5°	403.8	464.6	409.9	437.2	334.0
40°	261.1	337.0	290.0	320.3	245.9
42.5°	214.1	259.6	238.4	253.5	218.6
45°	170.0	211.0	211.0	211.0	171.6
47.5°	94.1	141.2	180.7	144.2	100.2
50°	53.1	71.4	139.7	74.4	56.2
52.5°	36.4	41.0	95.6	42.5	38.0
55°	27.3	28.8	51.6	30.4	28.8
57.5°	21.3	22.8	27.3	22.8	21.3
60°	16.7	16.7	19.7	18.2	16.7
62.5°	12.1	12.1	13.7	12.1	12.1
65°	9.1	9.1	9.1	9.1	9.1
67.5°	4.6	6.1	6.1	6.1	6.1
70°	4.6	3.0	3.0	3.0	4.6
72.5°	3.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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)