

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: P753003

Luminaire Tested: LD4D75BD010-EU4DR3070959027-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753003
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: LD4D75BD010-EU4DR3070959027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7135.3 lumens
Efficiency: N/A
Efficacy: 98.6 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): 72.4
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

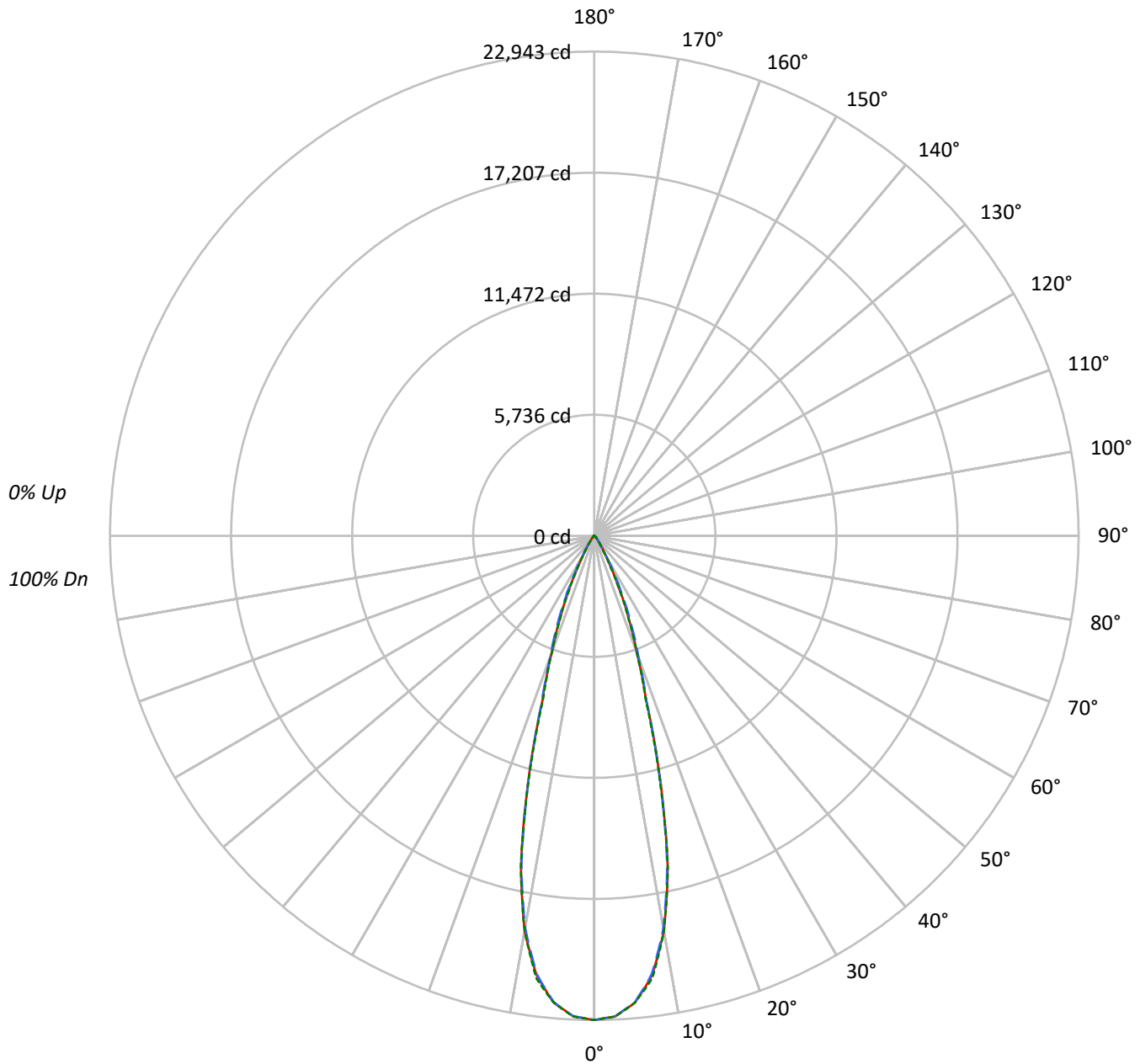


Downlight

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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°	1756166	1756166	1756166
5°	1705747	1703757	1705839
10°	1477436	1467021	1477086
15°	963958	958776	953958
20°	479327	497312	478691
25°	241452	272279	236503
30°	96675	105337	84231
35°	44843	42946	35994
40°	19355	21503	18235
45°	13661	16952	13780
50°	4692	12337	4966
55°	2709	5111	2856
60°	1898	2235	1898
65°	1232	1232	1232
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: 16952 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2017.5	28.3
10°-20°	3249.2	45.5
20°-30°	1404.1	19.7
30°-40°	320.0	4.5
40°-50°	109.9	1.5
50°-60°	26.8	0.4
60°-70°	7.0	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°	6670.8	93.5
0°-40°	6990.9	98.0
0°-60°	7127.6	99.9
0°-90°	7135.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7135.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22943	22943	22943	22943	22943	
5°	22200	22178	22174	22220	22201	2019
15°	12164	12018	12099	12060	12038	3257
25°	2859	2967	3224	2892	2800	1368
35°	480	490	460	456	385	325
45°	126	157	157	157	127	90
55°	20	21	38	22	21	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°	22943.4	22943.4	22943.4	22943.4	22943.4
2.5°	22791.3	22775.5	22784.6	22795.8	22800.3
5°	22199.9	22178.5	22174.0	22220.2	22201.1
7.5°	21007.0	20976.6	20930.4	21035.2	21133.2
10°	19008.7	18974.9	18874.7	18924.2	19004.2
12.5°	16058.6	15949.3	15947.0	16104.8	16083.3
15°	12164.5	12018.0	12099.1	12059.7	12038.3
17.5°	8180.2	8123.9	8232.0	8199.4	8058.6
20°	5884.5	5899.2	6105.3	6001.7	5876.7
22.5°	4294.0	4346.9	4591.4	4324.4	4226.4
25°	2858.9	2967.0	3223.9	2891.6	2800.3
27.5°	1758.4	1807.9	2068.1	1735.8	1686.3
30°	1093.8	1069.0	1191.8	1022.8	953.0
32.5°	717.5	686.0	725.4	651.1	594.8
35°	479.9	490.0	459.6	456.2	385.2
37.5°	299.6	344.7	304.1	324.4	247.8
40°	193.7	250.1	215.2	237.7	182.5
42.5°	158.8	192.6	176.9	188.1	162.2
45°	126.2	156.6	156.6	156.6	127.3
47.5°	69.8	104.8	134.0	107.0	74.3
50°	39.4	52.9	103.6	55.2	41.7
52.5°	27.0	30.4	71.0	31.5	28.2
55°	20.3	21.4	38.3	22.5	21.4
57.5°	15.8	16.9	20.3	16.9	15.8
60°	12.4	12.4	14.6	13.5	12.4
62.5°	9.0	9.0	10.1	9.0	9.0
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.5	4.5	4.5	4.5
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)