

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: P753044

Luminaire Tested: LD4D75BD010-EU4DR3070959040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753044
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-EU4DR3070959040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7308.5 lumens
Efficiency: N/A
Efficacy: 100.9 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): 72.4
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

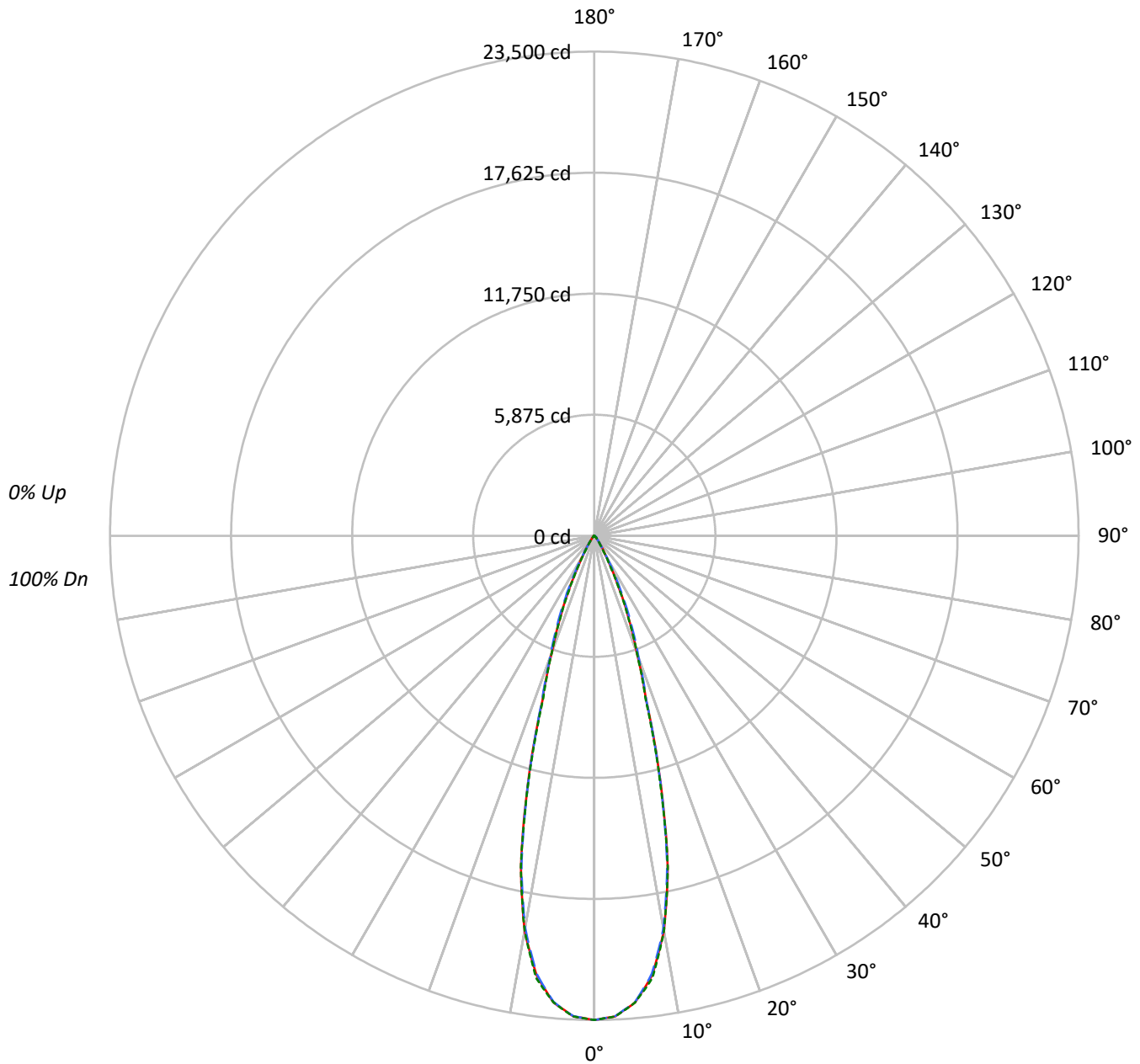


Downlight

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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°	1798808	1798808	1798808
5°	1747169	1745125	1747253
10°	1513314	1502642	1512956
15°	987359	982057	977121
20°	490967	509392	490307
25°	247313	278892	242246
30°	99017	107891	86272
35°	45927	43983	36872
40°	19834	22022	18675
45°	13986	17363	14116
50°	4811	12634	5085
55°	2776	5231	2923
60°	1944	2296	1944
65°	1250	1250	1250
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: 17363 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2066.5	28.3
10°-20°	3328.1	45.5
20°-30°	1438.2	19.7
30°-40°	327.8	4.5
40°-50°	112.5	1.5
50°-60°	27.5	0.4
60°-70°	7.1	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°	6832.8	93.5
0°-40°	7160.6	98.0
0°-60°	7300.7	99.9
0°-90°	7308.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7308.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23500	23500	23500	23500	23500	
5°	22739	22717	22712	22760	22740	2068
15°	12460	12310	12393	12352	12331	3336
25°	2928	3039	3302	2962	2868	1402
35°	492	502	471	467	395	333
45°	129	160	160	160	130	92
55°	21	22	39	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°	23500.5	23500.5	23500.5	23500.5	23500.5
2.5°	23344.7	23328.6	23337.8	23349.3	23353.9
5°	22739.0	22717.1	22712.4	22759.7	22740.1
7.5°	21517.1	21486.0	21438.6	21546.0	21646.3
10°	19470.3	19435.7	19333.0	19383.7	19465.7
12.5°	16448.5	16336.6	16334.3	16495.8	16473.9
15°	12459.8	12309.8	12392.9	12352.5	12330.6
17.5°	8378.9	8321.2	8431.9	8398.5	8254.2
20°	6027.4	6042.4	6253.6	6147.4	6019.3
22.5°	4398.3	4452.5	4702.9	4429.4	4329.0
25°	2928.3	3039.1	3302.2	2961.8	2868.3
27.5°	1801.1	1851.8	2118.4	1778.0	1727.2
30°	1120.3	1095.0	1220.7	1047.6	976.1
32.5°	735.0	702.7	743.0	666.9	609.2
35°	491.5	501.9	470.7	467.3	394.6
37.5°	306.9	353.1	311.5	332.3	253.8
40°	198.5	256.1	220.4	243.5	186.9
42.5°	162.7	197.3	181.1	192.7	166.1
45°	129.2	160.4	160.4	160.4	130.4
47.5°	71.5	107.3	137.3	109.6	76.2
50°	40.4	54.2	106.1	56.5	42.7
52.5°	27.7	31.2	72.7	32.3	28.8
55°	20.8	21.9	39.2	23.1	21.9
57.5°	16.2	17.3	20.8	17.3	16.2
60°	12.7	12.7	15.0	13.8	12.7
62.5°	9.2	9.2	10.4	9.2	9.2
65°	6.9	6.9	6.9	6.9	6.9
67.5°	3.5	4.6	4.6	4.6	4.6
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)