

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: P752264

Luminaire Tested: LD4D70BD010-EU4DR3070959040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752264
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: LD4D70BD010-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: 6914.8 lumens
Efficiency: N/A
Efficacy: 103.8 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): 66.6
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

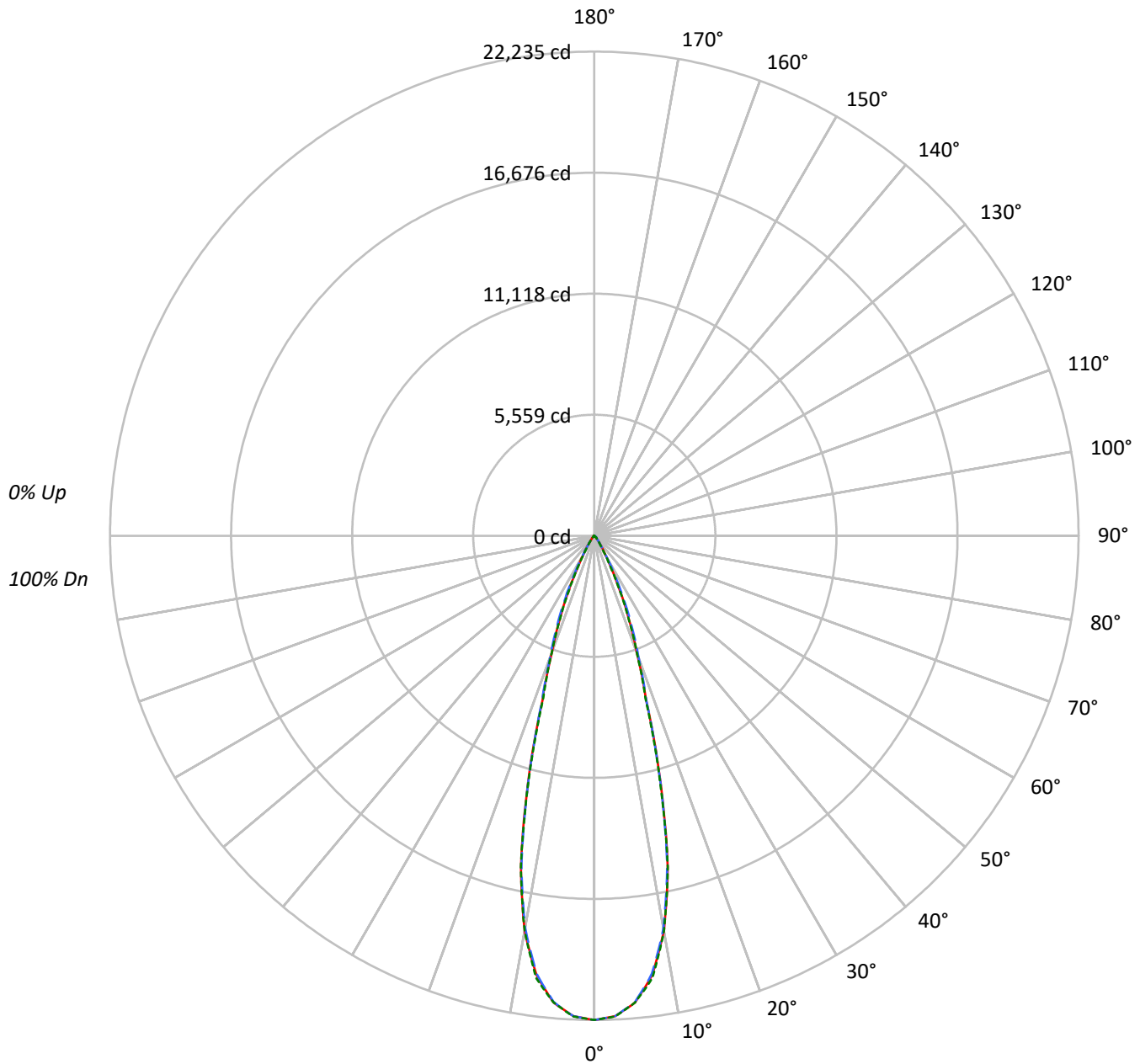


Downlight

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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°	1701912	1701912	1701912
5°	1653053	1651124	1653137
10°	1431796	1421700	1431454
15°	934178	929162	924487
20°	464526	481949	463899
25°	233995	263867	229197
30°	93688	102084	81623
35°	43451	41619	34882
40°	18765	20833	17666
45°	13239	16421	13358
50°	4549	11956	4811
55°	2616	4951	2762
60°	1837	2174	1837
65°	1177	1177	1177
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1955.2	28.3
10°-20°	3148.9	45.5
20°-30°	1360.7	19.7
30°-40°	310.1	4.5
40°-50°	106.5	1.5
50°-60°	26.0	0.4
60°-70°	6.7	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°	6464.8	93.5
0°-40°	6774.9	98.0
0°-60°	6907.4	99.9
0°-90°	6914.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6914.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22235	22235	22235	22235	22235	
5°	21514	21493	21489	21534	21515	1957
15°	11789	11647	11725	11687	11666	3157
25°	2771	2875	3124	2802	2714	1326
35°	465	475	445	442	373	315
45°	122	152	152	152	123	87
55°	20	21	37	22	21	19
65°	6	6	6	6	6	6
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°	22234.6	22234.6	22234.6	22234.6	22234.6
2.5°	22087.3	22072.0	22080.7	22091.6	22096.0
5°	21514.1	21493.4	21489.0	21533.8	21515.2
7.5°	20358.1	20328.6	20283.9	20385.4	20480.4
10°	18421.5	18388.8	18291.6	18339.6	18417.1
12.5°	15562.5	15456.6	15454.4	15607.3	15586.5
15°	11788.7	11646.8	11725.4	11687.2	11666.4
17.5°	7927.5	7872.9	7977.7	7946.1	7809.6
20°	5702.8	5716.9	5916.7	5816.3	5695.1
22.5°	4161.4	4212.7	4449.5	4190.8	4095.9
25°	2770.6	2875.4	3124.3	2802.3	2713.8
27.5°	1704.1	1752.1	2004.3	1682.2	1634.2
30°	1060.0	1036.0	1155.0	991.2	923.5
32.5°	695.4	664.8	703.0	631.0	576.4
35°	465.0	474.9	445.4	442.1	373.3
37.5°	290.4	334.0	294.7	314.4	240.2
40°	187.8	242.3	208.5	230.3	176.8
42.5°	153.9	186.7	171.4	182.3	157.2
45°	122.3	151.7	151.7	151.7	123.4
47.5°	67.7	101.5	129.9	103.7	72.0
50°	38.2	51.3	100.4	53.5	40.4
52.5°	26.2	29.5	68.8	30.6	27.3
55°	19.6	20.7	37.1	21.8	20.7
57.5°	15.3	16.4	19.6	16.4	15.3
60°	12.0	12.0	14.2	13.1	12.0
62.5°	8.7	8.7	9.8	8.7	8.7
65°	6.5	6.5	6.5	6.5	6.5
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	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)