

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: P752229

Luminaire Tested: LD4D70BD010-EU4DR3070959027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752229
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-EU4DR3070959027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4882.4 lumens
Efficiency: N/A
Efficacy: 73.3 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

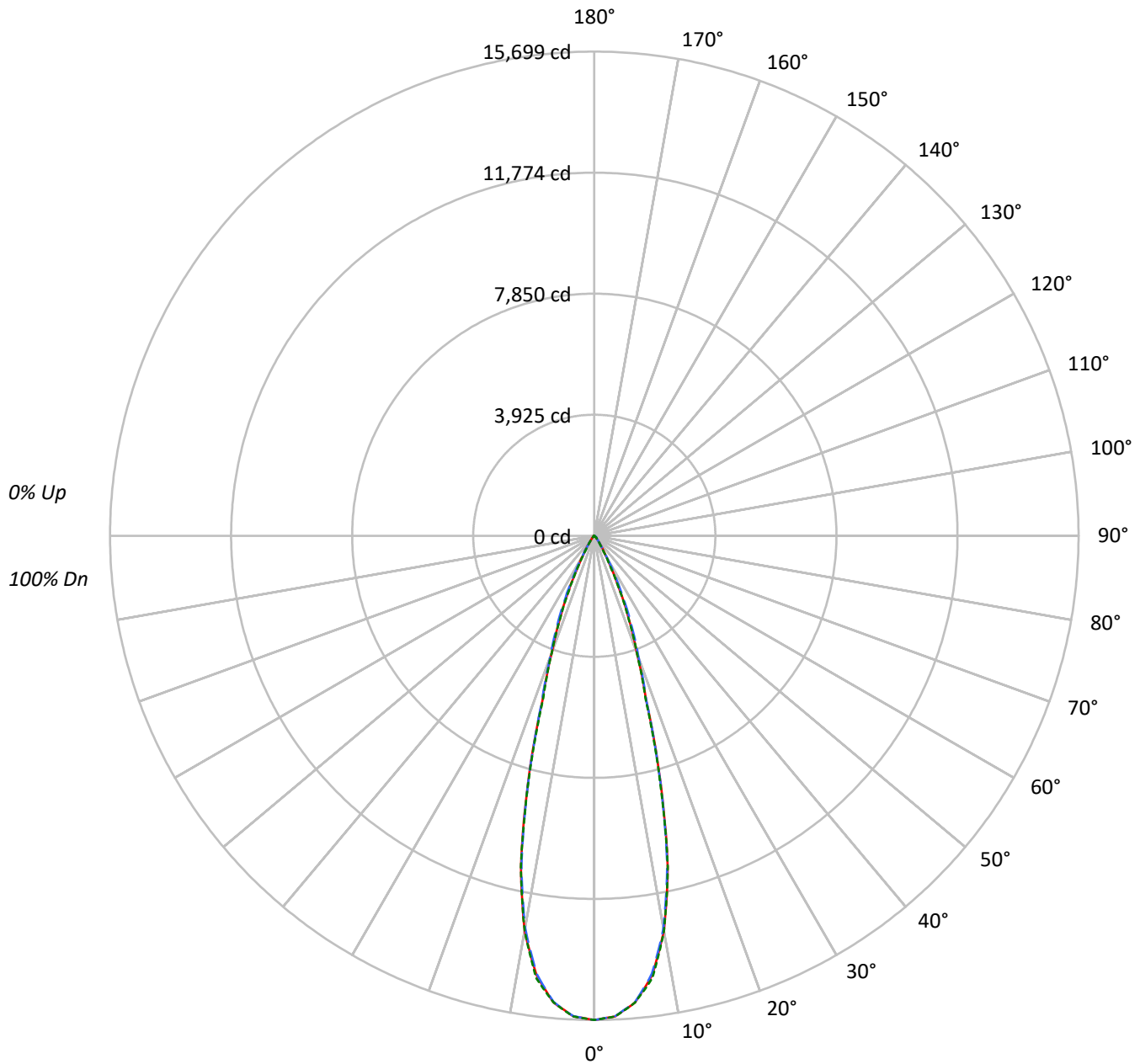
Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1201685	1201685	1201685
5°	1167189	1165822	1167243
10°	1010959	1003831	1010718
15°	659600	656057	652761
20°	327990	340298	327550
25°	165222	186311	161835
30°	66147	72078	57636
35°	30686	29388	24631
40°	13249	14708	12480
45°	9342	11593	9428
50°	3215	8443	3394
55°	1855	3496	1948
60°	1301	1531	1301
65°	833	833	833
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11593 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1380.5	28.3
10°-20°	2223.3	45.5
20°-30°	960.8	19.7
30°-40°	219.0	4.5
40°-50°	75.2	1.5
50°-60°	18.4	0.4
60°-70°	4.8	0.1
70°-80°	0.5	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°	4564.6	93.5
0°-40°	4783.6	98.0
0°-60°	4877.2	99.9
0°-90°	4882.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4882.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15699	15699	15699	15699	15699	
5°	15191	15176	15173	15204	15191	1382
15°	8324	8224	8279	8252	8237	2229
25°	1956	2030	2206	1979	1916	936
35°	328	335	314	312	264	223
45°	86	107	107	107	87	61
55°	14	15	26	15	15	14
65°	5	5	5	5	5	5
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°	15699.4	15699.4	15699.4	15699.4	15699.4
2.5°	15595.3	15584.5	15590.7	15598.4	15601.5
5°	15190.7	15176.0	15172.9	15204.5	15191.4
7.5°	14374.4	14353.6	14322.0	14393.7	14460.7
10°	13007.0	12983.9	12915.3	12949.2	13003.9
12.5°	10988.3	10913.6	10912.0	11019.9	11005.3
15°	8323.7	8223.5	8279.0	8252.0	8237.4
17.5°	5597.5	5558.9	5632.9	5610.6	5514.2
20°	4026.6	4036.6	4177.7	4106.8	4021.2
22.5°	2938.2	2974.5	3141.7	2959.0	2892.0
25°	1956.3	2030.3	2206.0	1978.6	1916.2
27.5°	1203.2	1237.1	1415.2	1187.8	1153.9
30°	748.4	731.5	815.5	699.9	652.1
32.5°	491.0	469.4	496.4	445.5	407.0
35°	328.4	335.3	314.5	312.2	263.6
37.5°	205.0	235.9	208.1	222.0	169.6
40°	132.6	171.1	147.2	162.6	124.9
42.5°	108.7	131.8	121.0	128.7	111.0
45°	86.3	107.1	107.1	107.1	87.1
47.5°	47.8	71.7	91.7	73.2	50.9
50°	27.0	36.2	70.9	37.8	28.5
52.5°	18.5	20.8	48.6	21.6	19.3
55°	13.9	14.6	26.2	15.4	14.6
57.5°	10.8	11.6	13.9	11.6	10.8
60°	8.5	8.5	10.0	9.2	8.5
62.5°	6.2	6.2	6.9	6.2	6.2
65°	4.6	4.6	4.6	4.6	4.6
67.5°	2.3	3.1	3.1	3.1	3.1
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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)