

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: P752251

Luminaire Tested: LD4D70BD010-EU4DR3070959035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752251
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-EU4DR3070959035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6606.0 lumens
Efficiency: N/A
Efficacy: 99.2 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

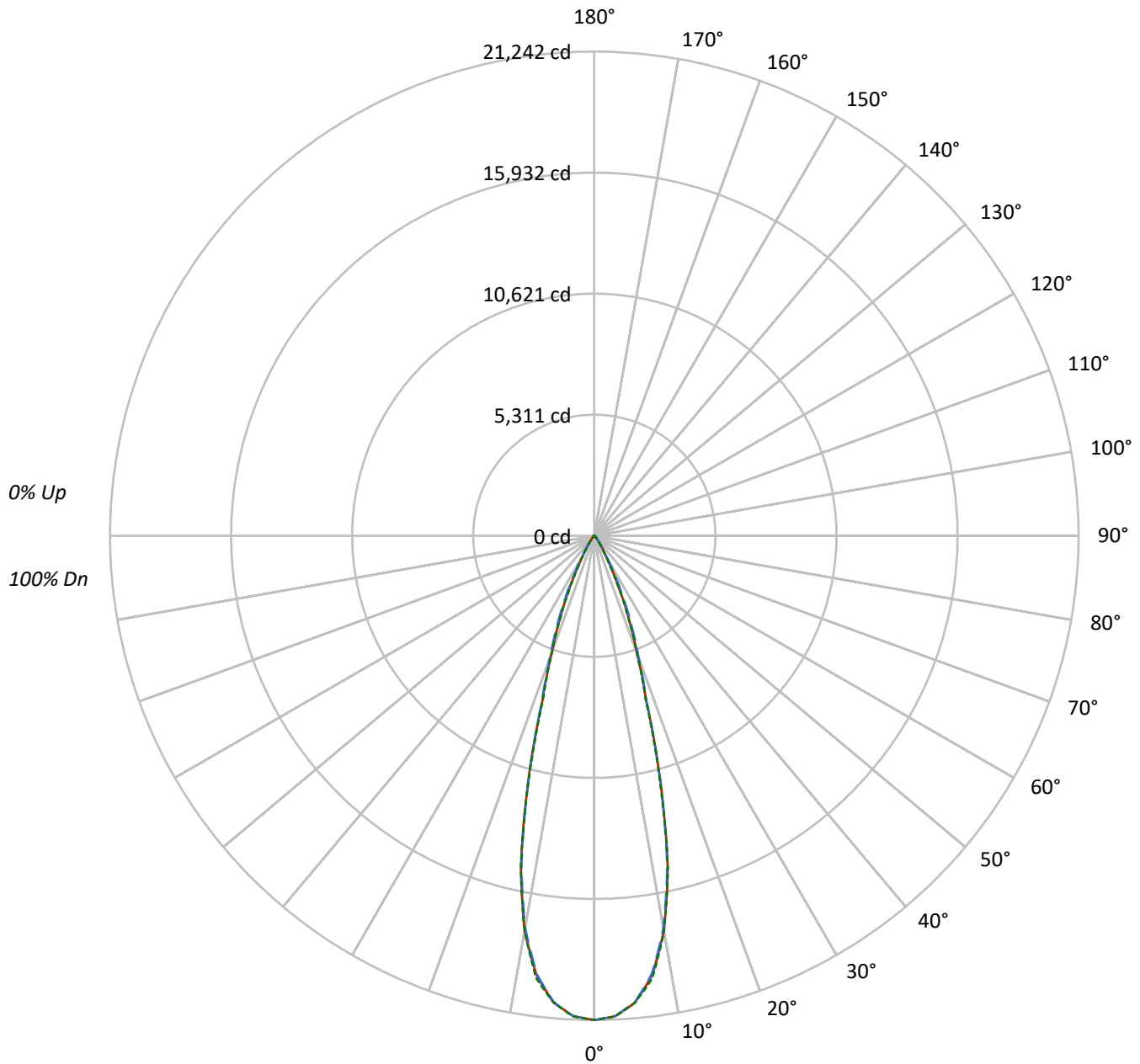


Downlight

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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°	1625897	1625897	1625897
5°	1579221	1577385	1579306
10°	1367845	1358199	1367526
15°	892457	887663	883193
20°	443771	460429	443176
25°	223547	252077	218961
30°	89498	97524	77982
35°	41516	39760	33331
40°	17926	19904	16877
45°	12643	15696	12752
50°	4346	11420	4597
55°	2509	4737	2642
60°	1760	2082	1760
65°	1141	1141	1141
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15696 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1867.9	28.3
10°-20°	3008.2	45.5
20°-30°	1299.9	19.7
30°-40°	296.3	4.5
40°-50°	101.7	1.5
50°-60°	24.9	0.4
60°-70°	6.5	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°	6176.0	93.5
0°-40°	6472.3	98.0
0°-60°	6598.9	99.9
0°-90°	6606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21242	21242	21242	21242	21242	
5°	20553	20533	20529	20572	20554	1869
15°	11262	11127	11202	11165	11145	3016
25°	2647	2747	2985	2677	2593	1267
35°	444	454	426	422	357	301
45°	117	145	145	145	118	83
55°	19	20	36	21	20	18
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°	21241.5	21241.5	21241.5	21241.5	21241.5
2.5°	21100.8	21086.2	21094.5	21104.9	21109.1
5°	20553.2	20533.4	20529.3	20572.0	20554.3
7.5°	19448.8	19420.7	19377.9	19474.9	19565.6
10°	17598.7	17567.5	17474.6	17520.5	17594.6
12.5°	14867.4	14766.3	14764.2	14910.2	14890.4
15°	11262.2	11126.6	11201.7	11165.2	11145.3
17.5°	7573.5	7521.3	7621.4	7591.2	7460.8
20°	5448.0	5461.6	5652.5	5556.5	5440.7
22.5°	3975.5	4024.5	4250.8	4003.6	3912.9
25°	2646.9	2747.0	2984.7	2677.1	2592.6
27.5°	1627.9	1673.8	1914.7	1607.1	1561.2
30°	1012.6	989.7	1103.4	946.9	882.3
32.5°	664.3	635.1	671.6	602.8	550.6
35°	444.3	453.7	425.5	422.4	356.7
37.5°	277.4	319.1	281.6	300.4	229.4
40°	179.4	231.5	199.2	220.0	168.9
42.5°	147.0	178.3	163.7	174.2	150.2
45°	116.8	145.0	145.0	145.0	117.8
47.5°	64.7	97.0	124.1	99.1	68.8
50°	36.5	49.0	95.9	51.1	38.6
52.5°	25.0	28.2	65.7	29.2	26.1
55°	18.8	19.8	35.5	20.9	19.8
57.5°	14.6	15.6	18.8	15.6	14.6
60°	11.5	11.5	13.6	12.5	11.5
62.5°	8.3	8.3	9.4	8.3	8.3
65°	6.3	6.3	6.3	6.3	6.3
67.5°	3.1	4.2	4.2	4.2	4.2
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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)