

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: P752227

Luminaire Tested: LD4D70BD010-EU4DR3070959027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752227
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-EU4DR3070959027-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 7106.2 lumens
Efficiency: N/A
Efficacy: 106.7 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

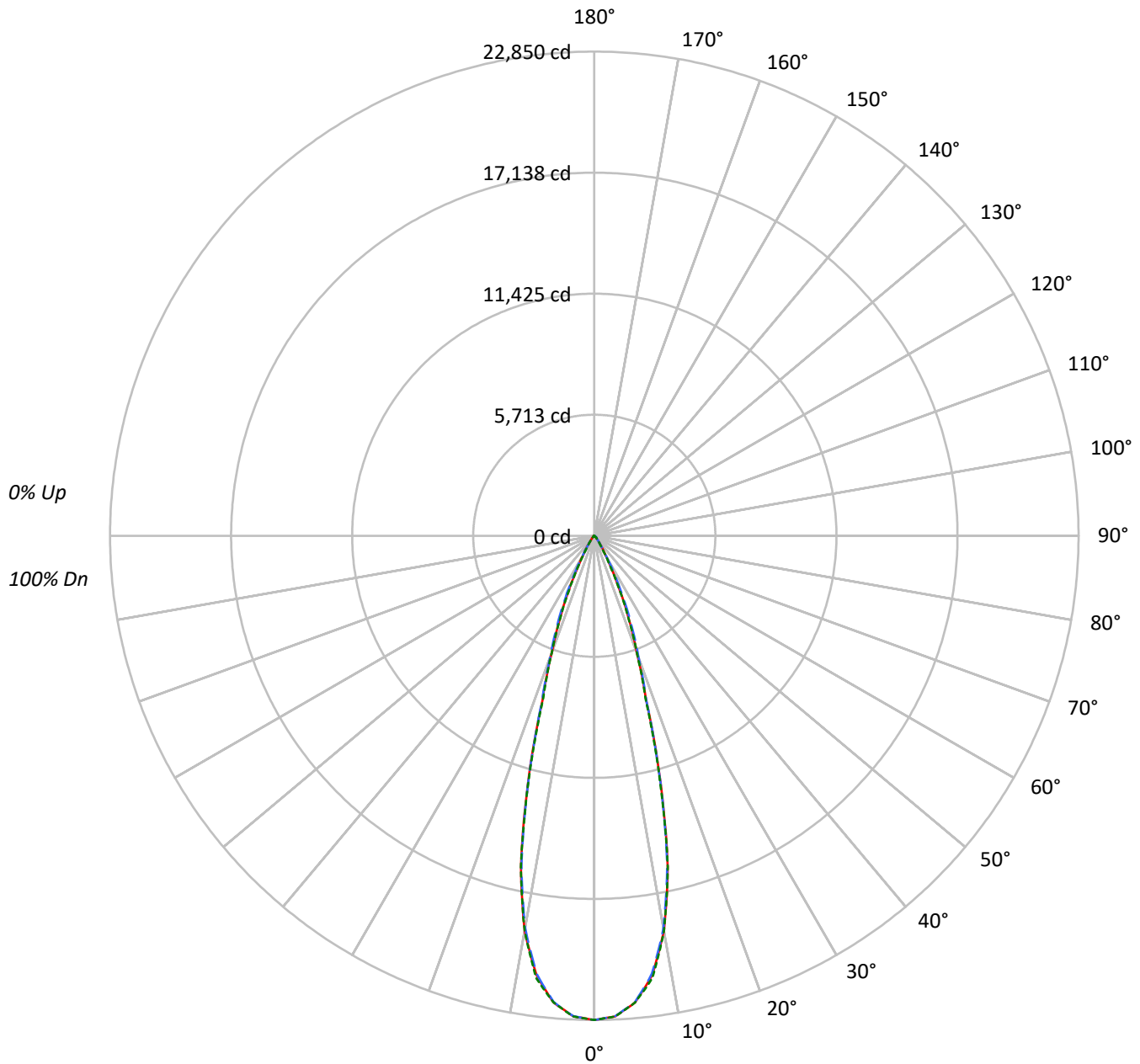


Downlight

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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°	1749017	1749017	1749017
5°	1698808	1696826	1698893
10°	1471428	1461052	1471078
15°	960036	954877	950075
20°	477380	495292	476736
25°	240472	271172	235540
30°	96277	104904	83886
35°	44656	42769	35854
40°	19285	21413	18156
45°	13596	16876	13726
50°	4680	12289	4942
55°	2696	5084	2842
60°	1883	2235	1883
65°	1213	1213	1213
70°	761	492	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: 16876 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2009.3	28.3
10°-20°	3236.0	45.5
20°-30°	1398.4	19.7
30°-40°	318.7	4.5
40°-50°	109.4	1.5
50°-60°	26.7	0.4
60°-70°	6.9	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°	6643.7	93.5
0°-40°	6962.4	98.0
0°-60°	7098.6	99.9
0°-90°	7106.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7106.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22850	22850	22850	22850	22850	
5°	22110	22088	22084	22130	22111	2011
15°	12115	11969	12050	12011	11989	3244
25°	2847	2955	3211	2880	2789	1363
35°	478	488	458	454	384	324
45°	126	156	156	156	127	89
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°	22850.0	22850.0	22850.0	22850.0	22850.0
2.5°	22698.6	22682.9	22691.9	22703.1	22707.6
5°	22109.6	22088.3	22083.8	22129.8	22110.7
7.5°	20921.6	20891.3	20845.3	20949.6	21047.2
10°	18931.4	18897.7	18797.9	18847.3	18926.9
12.5°	15993.2	15884.4	15882.2	16039.2	16017.9
15°	12115.0	11969.1	12049.9	12010.6	11989.3
17.5°	8146.9	8090.9	8198.6	8166.0	8025.8
20°	5860.6	5875.2	6080.5	5977.3	5852.7
22.5°	4276.5	4329.3	4572.7	4306.8	4209.2
25°	2847.3	2955.0	3210.8	2879.8	2788.9
27.5°	1751.2	1800.6	2059.7	1728.8	1679.4
30°	1089.3	1064.6	1186.9	1018.6	949.1
32.5°	714.6	683.2	722.5	648.4	592.3
35°	477.9	488.0	457.7	454.4	383.7
37.5°	298.4	343.3	302.9	323.1	246.8
40°	193.0	249.1	214.3	236.7	181.7
42.5°	158.2	191.8	176.1	187.4	161.5
45°	125.6	155.9	155.9	155.9	126.8
47.5°	69.6	104.3	133.5	106.6	74.0
50°	39.3	52.7	103.2	55.0	41.5
52.5°	26.9	30.3	70.7	31.4	28.0
55°	20.2	21.3	38.1	22.4	21.3
57.5°	15.7	16.8	20.2	16.8	15.7
60°	12.3	12.3	14.6	13.5	12.3
62.5°	9.0	9.0	10.1	9.0	9.0
65°	6.7	6.7	6.7	6.7	6.7
67.5°	3.4	4.5	4.5	4.5	4.5
70°	3.4	2.2	2.2	2.2	3.4
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)