

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: P752241

Luminaire Tested: LD4D70BD010-EU4DR3070959030-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752241
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-EU4DR3070959030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6627.6 lumens
Efficiency: N/A
Efficacy: 99.5 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

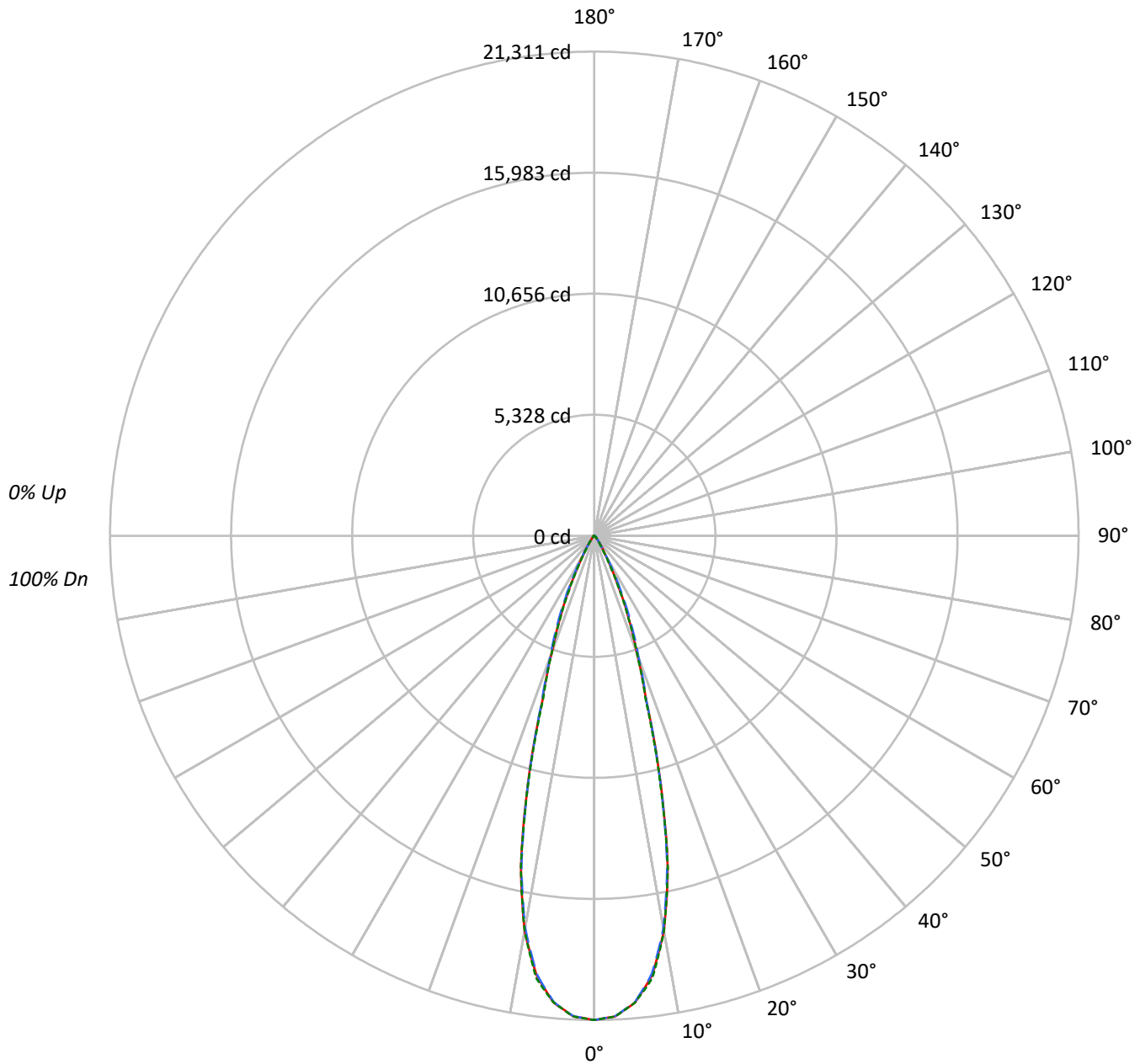


Downlight

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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					0
RW	70	50	30	10	70	50	30	10	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	102	102	100
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	98	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	94	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	90	90	89
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	87	87	85
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	83	83	82
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	80	80	79
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	78	78	77
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	75	75	74
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	73	73	72
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	70	70	69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1631216	1631216	1631216
5°	1584385	1582540	1584469
10°	1372322	1362645	1371995
15°	895373	890563	886086
20°	445229	461928	444626
25°	224274	252904	219679
30°	89799	97842	78238
35°	41647	39890	33434
40°	17986	19964	16936
45°	12687	15739	12795
50°	4358	11467	4608
55°	2509	4751	2656
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: 15739 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1874.0	28.3
10°-20°	3018.1	45.5
20°-30°	1304.2	19.7
30°-40°	297.3	4.5
40°-50°	102.1	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°	6196.2	93.5
0°-40°	6493.5	98.0
0°-60°	6620.5	99.9
0°-90°	6627.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6627.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21311	21311	21311	21311	21311	
5°	20620	20600	20596	20639	20622	1876
15°	11299	11163	11238	11202	11182	3025
25°	2656	2756	2994	2686	2601	1271
35°	446	455	427	424	358	302
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°	21311.0	21311.0	21311.0	21311.0	21311.0
2.5°	21169.7	21155.1	21163.4	21173.9	21178.1
5°	20620.4	20600.5	20596.4	20639.3	20621.5
7.5°	19512.4	19484.1	19441.2	19538.6	19629.6
10°	17656.3	17624.9	17531.8	17577.8	17652.1
12.5°	14916.0	14814.5	14812.4	14958.9	14939.0
15°	11299.0	11162.9	11238.3	11201.7	11181.8
17.5°	7598.2	7545.9	7646.3	7616.0	7485.2
20°	5465.9	5479.5	5670.9	5574.7	5458.5
22.5°	3988.5	4037.7	4264.7	4016.7	3925.7
25°	2655.5	2755.9	2994.5	2685.8	2601.1
27.5°	1633.3	1679.3	1921.0	1612.3	1566.3
30°	1016.0	992.9	1107.0	950.0	885.2
32.5°	666.5	637.2	673.8	604.8	552.4
35°	445.7	455.1	426.9	423.8	357.8
37.5°	278.3	320.2	282.5	301.3	230.2
40°	180.0	232.3	199.8	220.8	169.5
42.5°	147.5	178.9	164.3	174.7	150.7
45°	117.2	145.4	145.4	145.4	118.2
47.5°	64.9	97.3	124.5	99.4	69.1
50°	36.6	49.2	96.3	51.3	38.7
52.5°	25.1	28.3	65.9	29.3	26.2
55°	18.8	19.9	35.6	20.9	19.9
57.5°	14.6	15.7	18.8	15.7	14.6
60°	11.5	11.5	13.6	12.6	11.5
62.5°	8.4	8.4	9.4	8.4	8.4
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)