

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: P779571

Luminaire Tested: LER4D10D010-EC4DR300210IC9050-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779571
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: LER4D10D010-EC4DR300210IC9050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1046.9 lumens
Efficiency: N/A
Efficacy: 89.5 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): 11.7
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



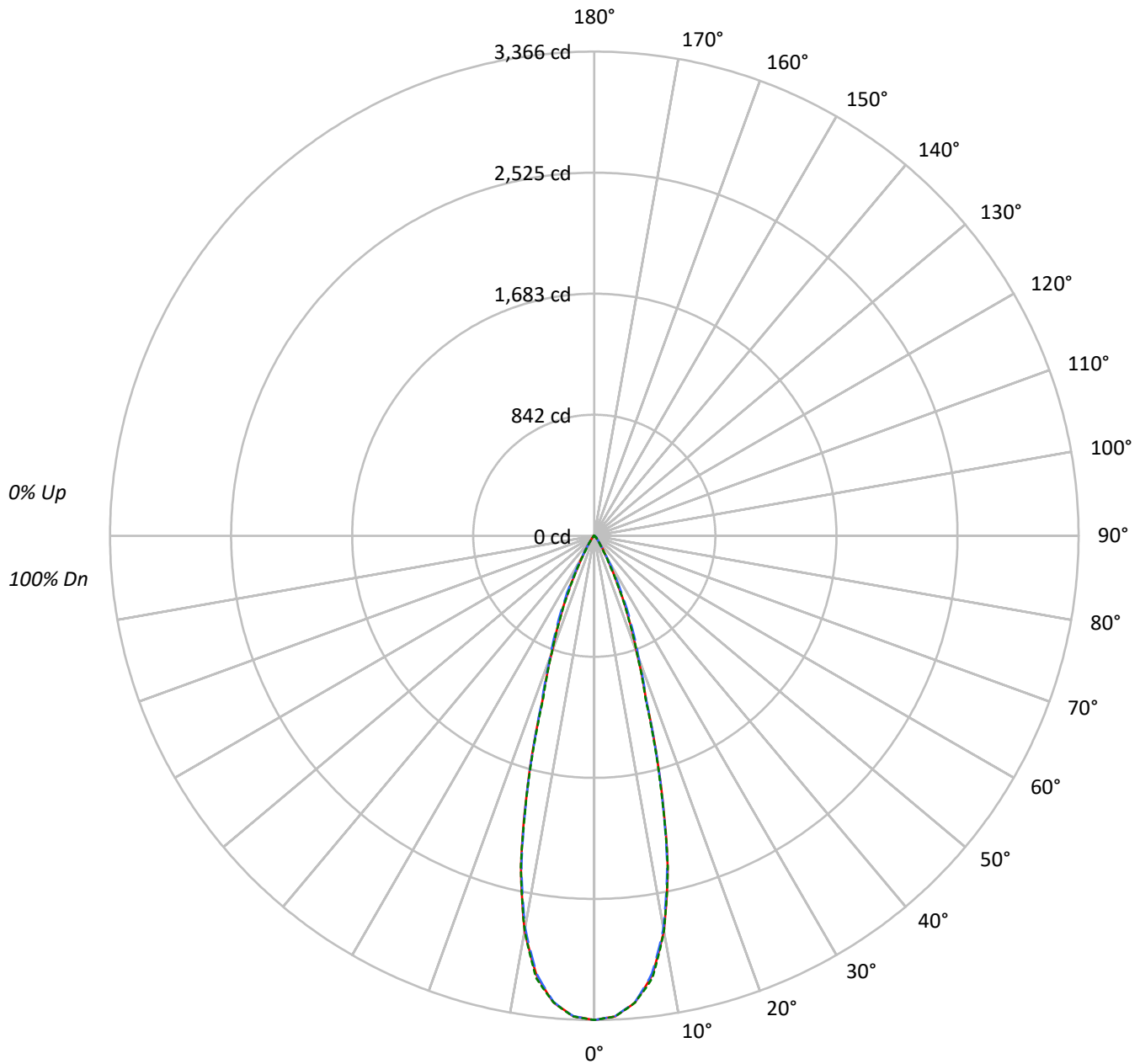
Downlight



TEST NUMBER: P779571

CATALOG NUMBER: LER4D10D010-EC4DR300210IC9050-4LBS1MW

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°	257653	257653	257653
5°	250262	249970	250270
10°	216757	215234	216711
15°	141426	140665	139960
20°	70321	72968	70231
25°	35429	39948	34703
30°	14186	15458	12356
35°	6578	6298	5279
40°	2838	3157	2678
45°	2003	2490	2024
50°	691	1810	726
55°	400	747	427
60°	276	321	276
65°	181	181	181
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2490 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.0	28.3
10°-20°	476.7	45.5
20°-30°	206.0	19.7
30°-40°	47.0	4.5
40°-50°	16.1	1.5
50°-60°	3.9	0.4
60°-70°	1.0	0.1
70°-80°	0.1	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°	978.7	93.5
0°-40°	1025.7	98.0
0°-60°	1045.7	99.9
0°-90°	1046.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1046.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3366	3366	3366	3366	3366	
5°	3257	3254	3253	3260	3257	296
15°	1785	1763	1775	1769	1766	478
25°	420	435	473	424	411	201
35°	70	72	67	67	56	48
45°	18	23	23	23	19	13
55°	3	3	6	3	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	3366.1	3366.1	3366.1	3366.1	3366.1
2.5°	3343.8	3341.5	3342.8	3344.5	3345.1
5°	3257.1	3253.9	3253.3	3260.0	3257.2
7.5°	3082.0	3077.6	3070.8	3086.2	3100.5
10°	2788.8	2783.9	2769.2	2776.5	2788.2
12.5°	2356.0	2340.0	2339.6	2362.8	2359.6
15°	1784.7	1763.2	1775.1	1769.3	1766.2
17.5°	1200.2	1191.9	1207.8	1203.0	1182.3
20°	863.3	865.5	895.8	880.5	862.2
22.5°	630.0	637.8	673.6	634.4	620.1
25°	419.5	435.3	473.0	424.2	410.9
27.5°	258.0	265.3	303.4	254.7	247.4
30°	160.5	156.8	174.9	150.1	139.8
32.5°	105.3	100.7	106.5	95.5	87.3
35°	70.4	71.9	67.4	66.9	56.5
37.5°	43.9	50.6	44.6	47.6	36.4
40°	28.4	36.7	31.6	34.9	26.8
42.5°	23.3	28.2	26.0	27.6	23.8
45°	18.5	23.0	23.0	23.0	18.7
47.5°	10.3	15.4	19.7	15.7	10.9
50°	5.8	7.8	15.2	8.1	6.1
52.5°	4.0	4.5	10.4	4.6	4.1
55°	3.0	3.2	5.6	3.3	3.2
57.5°	2.3	2.5	3.0	2.5	2.3
60°	1.8	1.8	2.1	2.0	1.8
62.5°	1.3	1.3	1.5	1.3	1.3
65°	1.0	1.0	1.0	1.0	1.0
67.5°	0.5	0.7	0.7	0.7	0.7
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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)