

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: P778945

Luminaire Tested: LER4D05D010-EC4DR300210IC9050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778945
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: LER4D05D010-EC4DR300210IC9050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 700.2 lumens
Efficiency: N/A
Efficacy: 93.4 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): 7.5
Input Voltage (V): NR
Input Current (A_{in}): 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



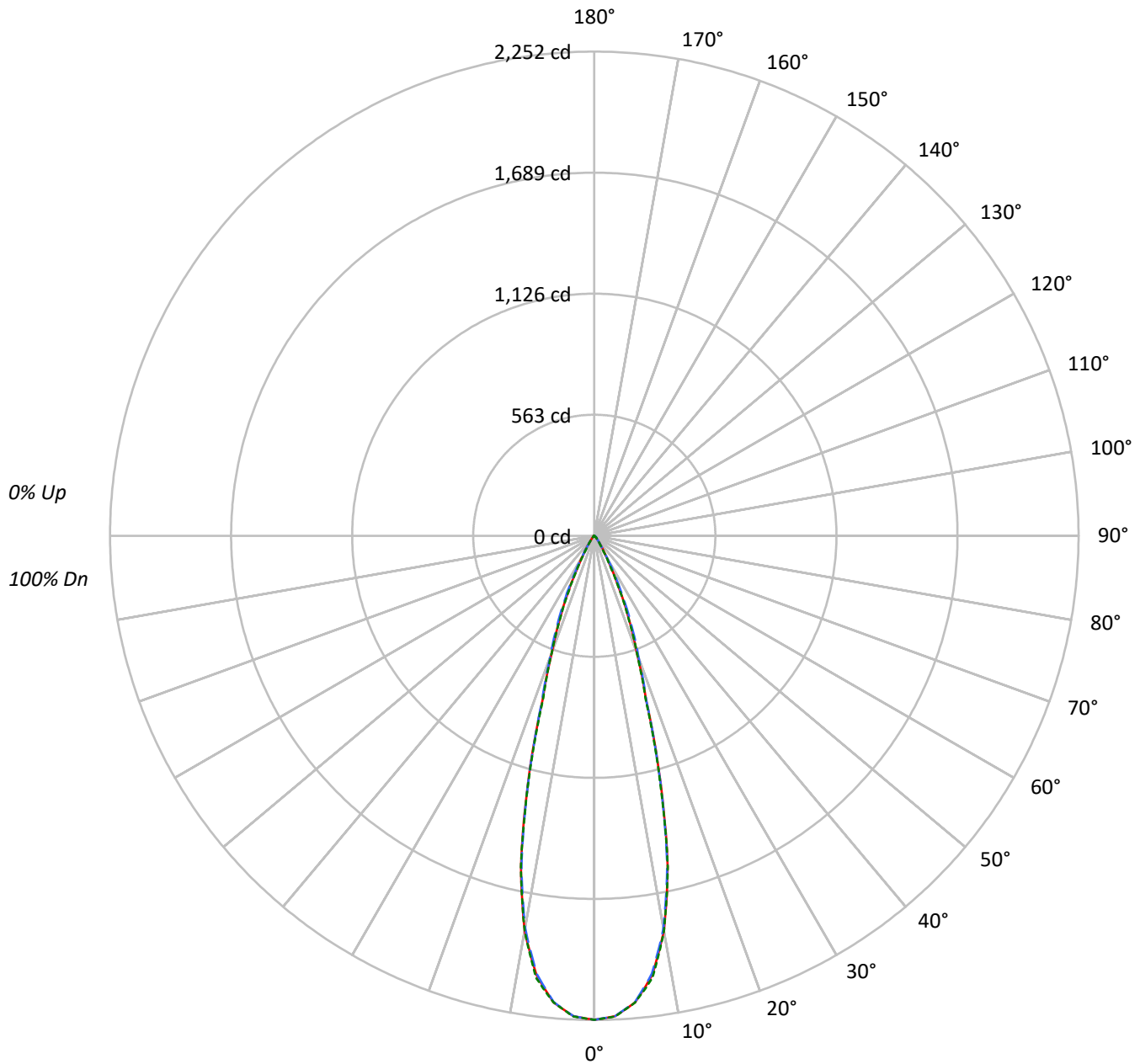
Downlight



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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°	172337	172337	172337
5°	167394	167202	167402
10°	144987	143969	144956
15°	94593	94086	93618
20°	47041	48800	46976
25°	23698	26722	23209
30°	9484	10332	8264
35°	4401	4214	3532
40°	1898	2108	1789
45°	1342	1667	1353
50°	464	1215	488
55°	267	507	280
60°	184	214	184
65°	127	127	127
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1667 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	28.3
10°-20°	318.9	45.5
20°-30°	137.8	19.7
30°-40°	31.4	4.5
40°-50°	10.8	1.5
50°-60°	2.6	0.4
60°-70°	0.7	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°	654.6	93.5
0°-40°	686.1	98.0
0°-60°	699.5	99.9
0°-90°	700.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2252	2252	2252	2252	2252	
5°	2179	2176	2176	2181	2179	198
15°	1194	1179	1187	1184	1181	320
25°	281	291	316	284	275	134
35°	47	48	45	45	38	32
45°	12	15	15	15	12	9
55°	2	2	4	2	2	2
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°	2251.5	2251.5	2251.5	2251.5	2251.5
2.5°	2236.6	2235.1	2235.9	2237.1	2237.5
5°	2178.6	2176.5	2176.1	2180.6	2178.7
7.5°	2061.5	2058.6	2054.0	2064.3	2073.9
10°	1865.4	1862.1	1852.3	1857.1	1865.0
12.5°	1575.9	1565.2	1565.0	1580.4	1578.4
15°	1193.7	1179.4	1187.3	1183.5	1181.4
17.5°	802.8	797.3	807.9	804.7	790.8
20°	577.5	578.9	599.1	589.0	576.7
22.5°	421.4	426.6	450.6	424.4	414.8
25°	280.6	291.2	316.4	283.8	274.8
27.5°	172.6	177.4	202.9	170.3	165.5
30°	107.3	104.9	116.9	100.4	93.5
32.5°	70.4	67.3	71.2	63.9	58.4
35°	47.1	48.1	45.1	44.7	37.8
37.5°	29.4	33.8	29.9	31.9	24.3
40°	19.0	24.5	21.1	23.3	17.9
42.5°	15.6	18.9	17.4	18.4	15.9
45°	12.4	15.4	15.4	15.4	12.5
47.5°	6.9	10.3	13.2	10.5	7.3
50°	3.9	5.2	10.2	5.4	4.1
52.5°	2.6	3.0	7.0	3.1	2.8
55°	2.0	2.1	3.8	2.2	2.1
57.5°	1.5	1.7	2.0	1.7	1.5
60°	1.2	1.2	1.4	1.3	1.2
62.5°	0.9	0.9	1.0	0.9	0.9
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.3	0.5	0.5	0.5	0.5
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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)