

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: P777685

Luminaire Tested: LERS4D08D010-EC4DR300210IC9030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777685
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: LERS4D08D010-EC4DR300210IC9030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 768.4 lumens
Efficiency: N/A
Efficacy: 86.3 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): 8.9
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



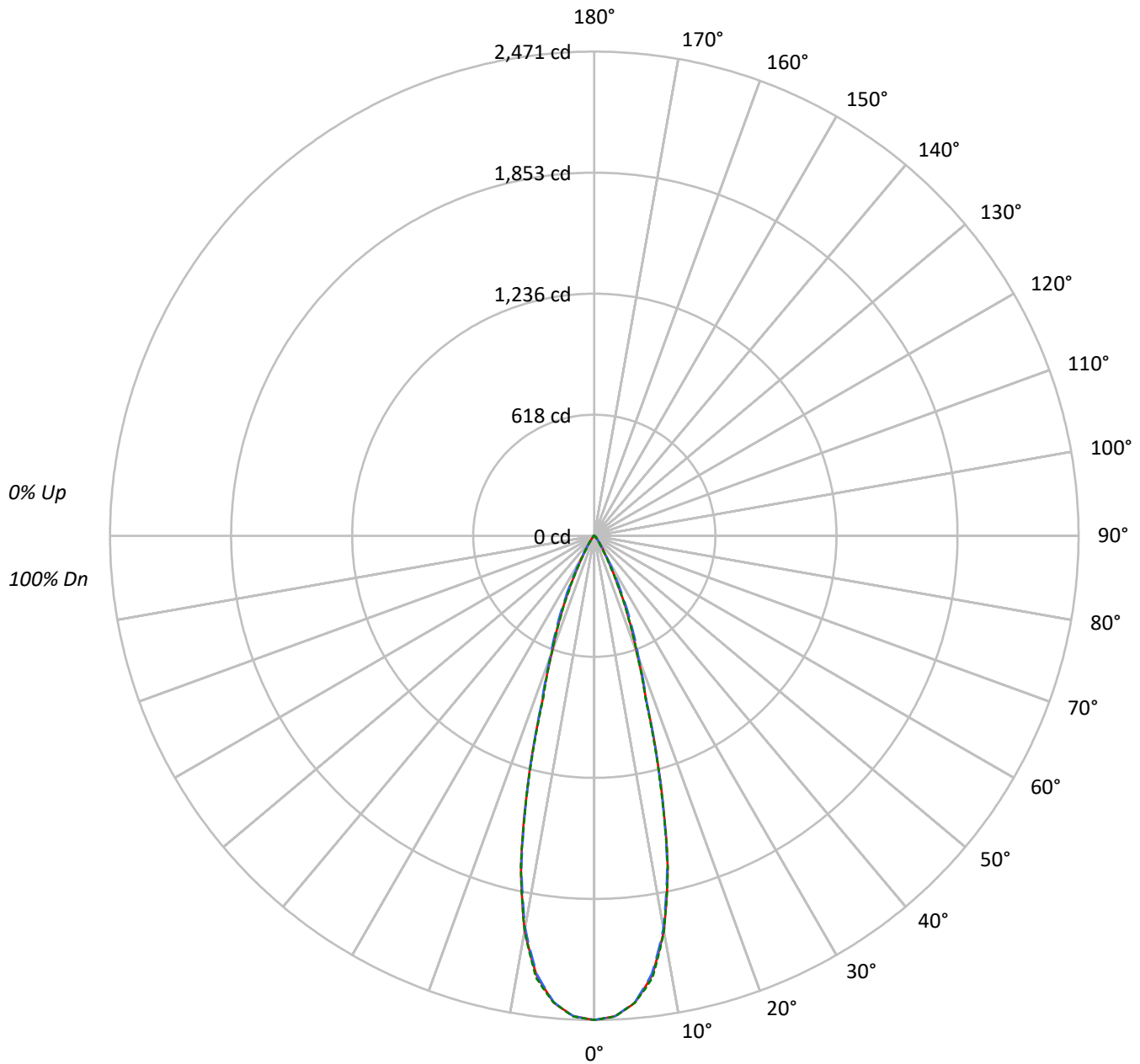
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	189123	189123	189123
5°	183699	183476	183707
10°	159109	157990	159070
15°	103809	103246	102731
20°	51619	53557	51553
25°	26004	29323	25472
30°	10412	11340	9068
35°	4831	4625	3878
40°	2088	2308	1968
45°	1472	1819	1483
50°	500	1334	536
55°	294	547	307
60°	199	245	199
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: 1819 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.3	28.3
10°-20°	349.9	45.5
20°-30°	151.2	19.7
30°-40°	34.5	4.5
40°-50°	11.8	1.5
50°-60°	2.9	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°	718.4	93.5
0°-40°	752.9	98.0
0°-60°	767.6	99.9
0°-90°	768.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	768.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2471	2471	2471	2471	2471	
5°	2391	2388	2388	2393	2391	217
15°	1310	1294	1303	1299	1296	351
25°	308	320	347	311	302	147
35°	52	53	50	49	42	35
45°	14	17	17	17	14	10
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°	2470.8	2470.8	2470.8	2470.8	2470.8
2.5°	2454.4	2452.7	2453.7	2454.9	2455.4
5°	2390.8	2388.5	2387.9	2392.9	2390.9
7.5°	2262.3	2259.0	2254.0	2265.3	2275.9
10°	2047.1	2043.4	2032.7	2038.0	2046.6
12.5°	1729.4	1717.6	1717.4	1734.3	1732.0
15°	1310.0	1294.2	1302.9	1298.7	1296.4
17.5°	881.0	874.9	886.5	883.0	867.8
20°	633.7	635.3	657.5	646.3	632.9
22.5°	462.4	468.1	494.5	465.7	455.2
25°	307.9	319.5	347.2	311.4	301.6
27.5°	189.4	194.7	222.7	187.0	181.6
30°	117.8	115.1	128.3	110.1	102.6
32.5°	77.3	73.9	78.2	70.1	64.1
35°	51.7	52.8	49.5	49.1	41.5
37.5°	32.3	37.1	32.8	34.9	26.7
40°	20.9	26.9	23.1	25.6	19.7
42.5°	17.1	20.7	19.0	20.3	17.5
45°	13.6	16.8	16.8	16.8	13.7
47.5°	7.5	11.3	14.4	11.5	8.0
50°	4.2	5.7	11.2	6.0	4.5
52.5°	2.9	3.3	7.6	3.4	3.0
55°	2.2	2.3	4.1	2.4	2.3
57.5°	1.7	1.8	2.2	1.8	1.7
60°	1.3	1.3	1.6	1.4	1.3
62.5°	1.0	1.0	1.1	1.0	1.0
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)