

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: FAIL-SAFE

Report Number: P974677

Luminaire Tested: FLR2-24-72HE-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-72HE-L835-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

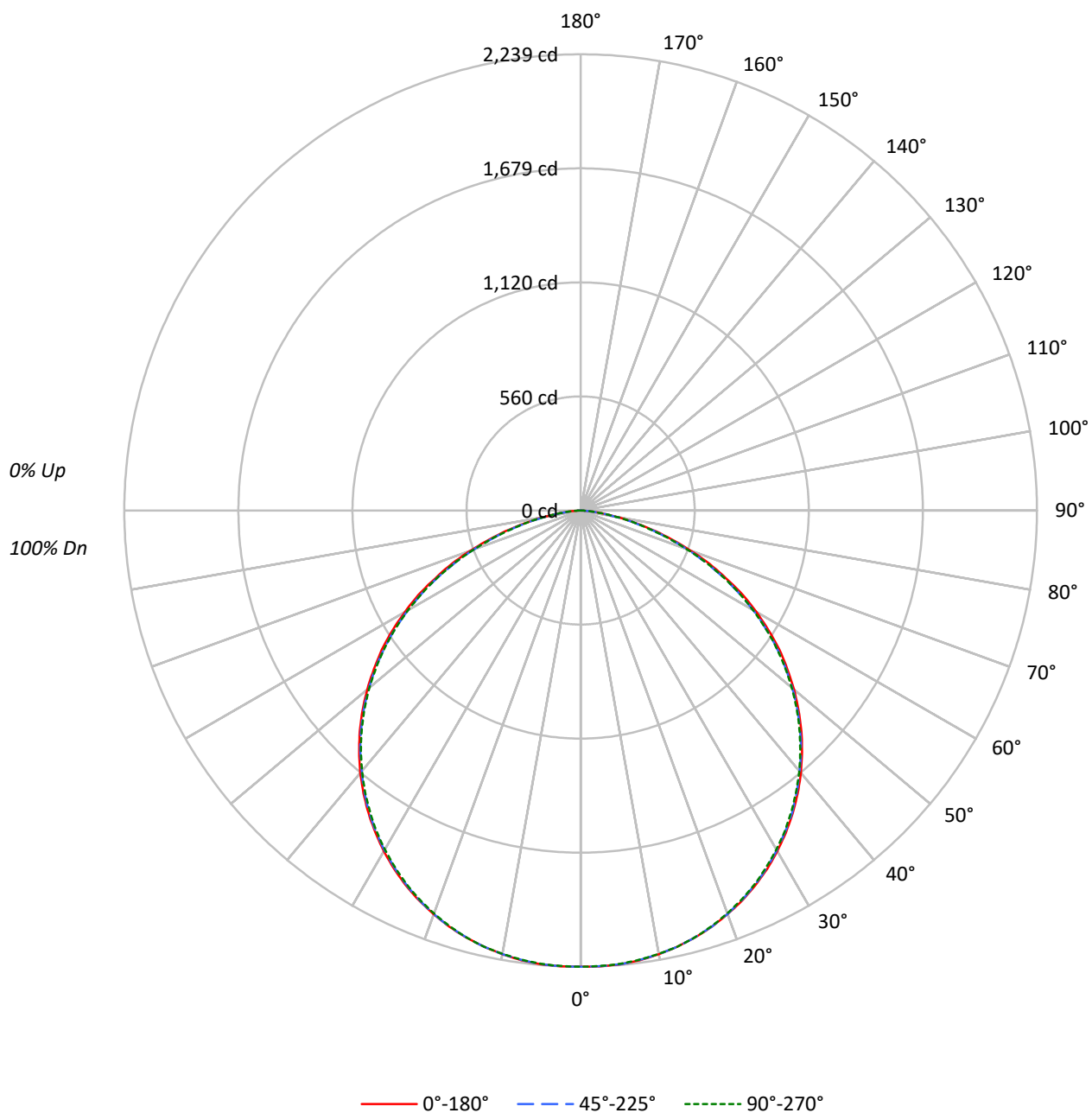
Lumens per Lamp: N/A
Luminaire Lumens: 6328.6 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3013	3013	3013
5°	3019	3019	3017
10°	3021	3020	3019
15°	3022	3021	3021
20°	3019	3017	3013
25°	3013	3007	3002
30°	3000	2991	2985
35°	2980	2972	2961
40°	2954	2935	2931
45°	2915	2899	2889
50°	2861	2839	2830
55°	2793	2753	2750
60°	2677	2629	2629
65°	2504	2445	2453
70°	2254	2184	2178
75°	1892	1817	1809
80°	1382	1313	1370
85°	781	719	732

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2915 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	3.4
10°-20°	612.3	9.7
20°-30°	933.6	14.8
30°-40°	1131.1	17.9
40°-50°	1174.9	18.6
50°-60°	1051.0	16.6
60°-70°	766.0	12.1
70°-80°	379.4	6.0
80°-90°	67.8	1.1
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°	1758.4	27.8
0°-40°	2889.5	45.7
0°-60°	5115.5	80.8
0°-90°	6328.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6328.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2239	2239	2239	2239	2239	
5°	2235	2236	2235	2235	2234	213
15°	2169	2168	2168	2170	2168	612
25°	2030	2027	2026	2025	2022	935
35°	1814	1812	1809	1806	1803	1135
45°	1532	1529	1523	1520	1518	1181
55°	1191	1182	1174	1174	1172	1061
65°	787	780	768	771	770	780
75°	364	358	350	356	348	388
85°	51	47	47	47	47	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2239.2	2239.2	2239.2	2239.2	2239.2
2.5°	2239.2	2238.4	2238.4	2239.2	2237.6
5°	2235.2	2236.0	2235.2	2235.2	2233.6
7.5°	2226.3	2225.5	2224.7	2225.5	2223.1
10°	2211.1	2211.1	2210.3	2211.1	2209.5
12.5°	2192.6	2192.6	2192.6	2193.4	2192.6
15°	2169.3	2168.5	2168.5	2170.1	2168.5
17.5°	2142.0	2141.2	2141.2	2140.4	2138.8
20°	2108.2	2108.2	2107.4	2106.6	2104.2
22.5°	2072.1	2071.3	2068.9	2068.9	2065.6
25°	2029.5	2027.1	2025.5	2024.7	2022.3
27.5°	1982.9	1979.7	1977.3	1975.7	1973.2
30°	1930.7	1927.4	1925.0	1922.6	1921.0
32.5°	1874.4	1872.8	1868.8	1868.0	1864.8
35°	1814.2	1811.8	1809.3	1806.1	1802.9
37.5°	1749.9	1747.5	1741.9	1740.2	1737.8
40°	1681.6	1678.4	1671.2	1671.2	1668.7
42.5°	1608.5	1605.3	1600.4	1597.2	1595.6
45°	1532.2	1528.9	1523.3	1520.1	1518.5
47.5°	1451.0	1448.6	1442.2	1439.8	1437.4
50°	1366.6	1363.4	1356.2	1354.6	1352.2
52.5°	1278.3	1276.7	1267.0	1266.2	1263.8
55°	1190.7	1181.9	1173.8	1173.8	1172.2
57.5°	1094.3	1087.9	1077.4	1077.4	1075.8
60°	994.7	989.0	977.0	978.6	977.0
62.5°	897.4	885.4	874.1	879.0	874.9
65°	786.6	780.1	768.1	771.3	770.5
67.5°	685.3	673.3	662.0	668.5	665.2
70°	572.9	566.4	555.2	561.6	553.6
72.5°	466.8	461.2	449.9	457.2	449.1
75°	364.0	358.3	349.5	355.9	347.9
77.5°	266.7	262.7	254.7	261.1	262.7
80°	178.4	173.5	169.5	175.1	176.8
82.5°	104.4	101.2	99.6	100.4	104.4
85°	50.6	46.6	46.6	47.4	47.4
87.5°	13.7	12.1	13.7	14.5	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)