

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: P974182

Luminaire Tested: FLR2-24-55-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974182
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: FLR2-24-55-L835-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L835-CP125
Ballast/Driver: -

Summary

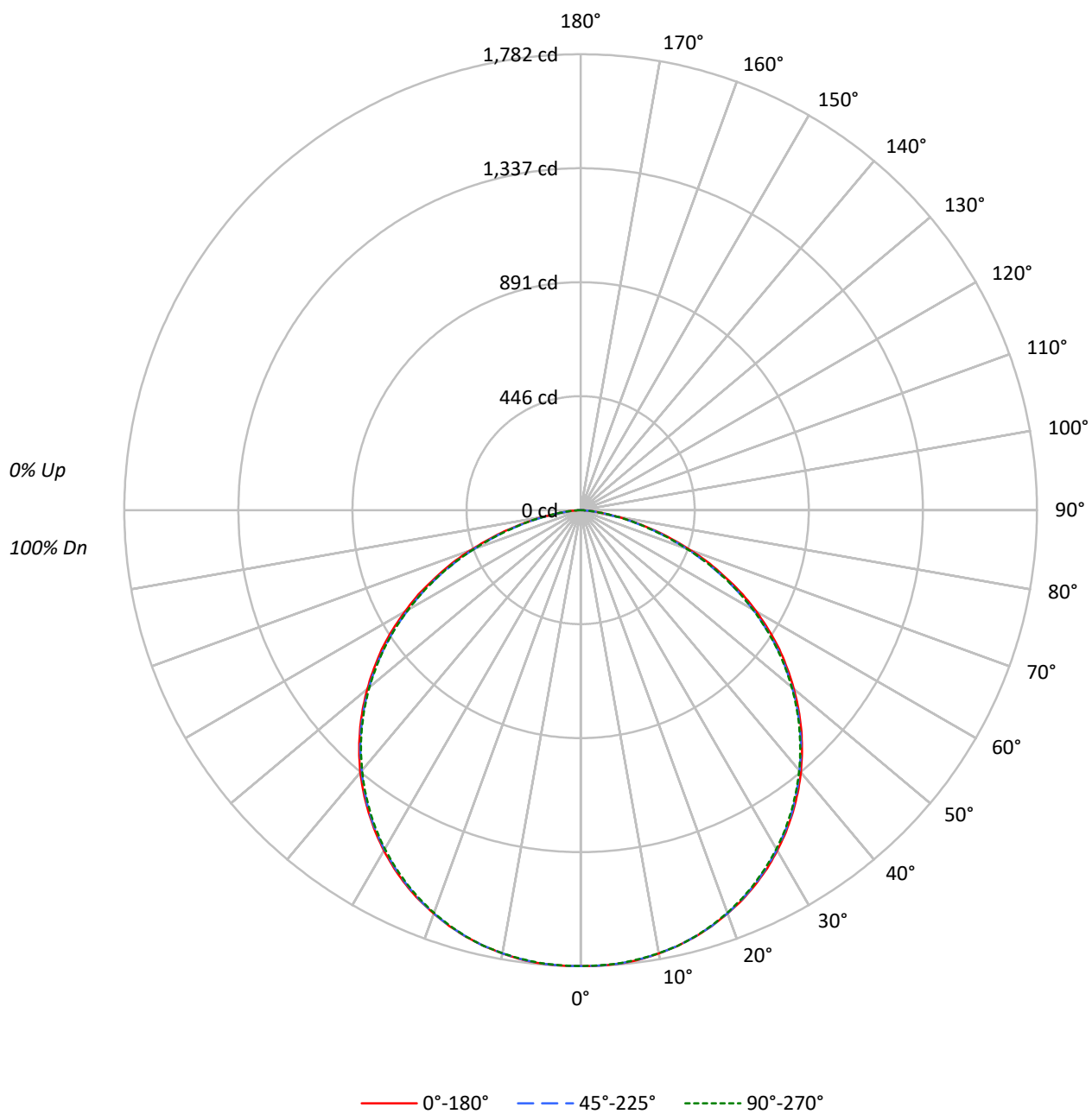
Lumens per Lamp: N/A
Luminaire Lumens: 5036.1 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.1
Input Voltage (V): 120
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°	2398	2398	2398
5°	2402	2402	2401
10°	2404	2403	2402
15°	2405	2404	2404
20°	2402	2401	2398
25°	2398	2393	2389
30°	2387	2380	2375
35°	2371	2365	2357
40°	2350	2336	2332
45°	2320	2307	2299
50°	2276	2259	2252
55°	2223	2191	2188
60°	2130	2092	2092
65°	1993	1946	1952
70°	1793	1738	1733
75°	1506	1446	1439
80°	1099	1045	1090
85°	622	573	582

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2320 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	3.4
10°-20°	487.3	9.7
20°-30°	742.9	14.8
30°-40°	900.1	17.9
40°-50°	934.9	18.6
50°-60°	836.4	16.6
60°-70°	609.6	12.1
70°-80°	301.9	6.0
80°-90°	54.0	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°	1399.3	27.8
0°-40°	2299.4	45.7
0°-60°	4070.7	80.8
0°-90°	5036.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5036.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1782	1782	1782	1782	1782	
5°	1779	1779	1779	1779	1777	169
15°	1726	1726	1726	1727	1726	487
25°	1615	1613	1612	1611	1609	744
35°	1444	1442	1440	1437	1435	903
45°	1219	1217	1212	1210	1208	940
55°	948	940	934	934	933	844
65°	626	621	611	614	613	621
75°	290	285	278	283	277	309
85°	40	37	37	38	38	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1781.9	1781.9	1781.9	1781.9	1781.9
2.5°	1781.9	1781.2	1781.2	1781.9	1780.6
5°	1778.7	1779.3	1778.7	1778.7	1777.4
7.5°	1771.6	1771.0	1770.4	1771.0	1769.1
10°	1759.5	1759.5	1758.8	1759.5	1758.2
12.5°	1744.8	1744.8	1744.8	1745.4	1744.8
15°	1726.2	1725.6	1725.6	1726.9	1725.6
17.5°	1704.5	1703.9	1703.9	1703.2	1701.9
20°	1677.6	1677.6	1677.0	1676.4	1674.5
22.5°	1648.9	1648.2	1646.3	1646.3	1643.8
25°	1615.0	1613.1	1611.8	1611.2	1609.2
27.5°	1577.9	1575.4	1573.4	1572.2	1570.2
30°	1536.4	1533.8	1531.9	1530.0	1528.7
32.5°	1491.6	1490.3	1487.1	1486.5	1483.9
35°	1443.6	1441.7	1439.8	1437.3	1434.7
37.5°	1392.5	1390.6	1386.1	1384.8	1382.9
40°	1338.2	1335.6	1329.8	1329.8	1327.9
42.5°	1280.0	1277.4	1273.6	1271.0	1269.7
45°	1219.2	1216.7	1212.2	1209.6	1208.4
47.5°	1154.7	1152.7	1147.6	1145.7	1143.8
50°	1087.5	1085.0	1079.2	1077.9	1076.0
52.5°	1017.2	1015.9	1008.3	1007.6	1005.7
55°	947.5	940.5	934.1	934.1	932.8
57.5°	870.8	865.7	857.4	857.4	856.1
60°	791.5	787.0	777.4	778.7	777.4
62.5°	714.2	704.6	695.6	699.4	696.3
65°	625.9	620.8	611.2	613.8	613.1
67.5°	545.4	535.8	526.8	531.9	529.4
70°	455.9	450.7	441.8	446.9	440.5
72.5°	371.5	367.0	358.0	363.8	357.4
75°	289.6	285.1	278.1	283.2	276.8
77.5°	212.3	209.1	202.7	207.8	209.1
80°	141.9	138.1	134.9	139.4	140.7
82.5°	83.1	80.6	79.3	79.9	83.1
85°	40.3	37.1	37.1	37.7	37.7
87.5°	10.9	9.6	10.9	11.5	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)