

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: P974183

Luminaire Tested: FLR2-24-65-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974183
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: FLR2-24-65-L835-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L835-CP125
Ballast/Driver: -

Summary

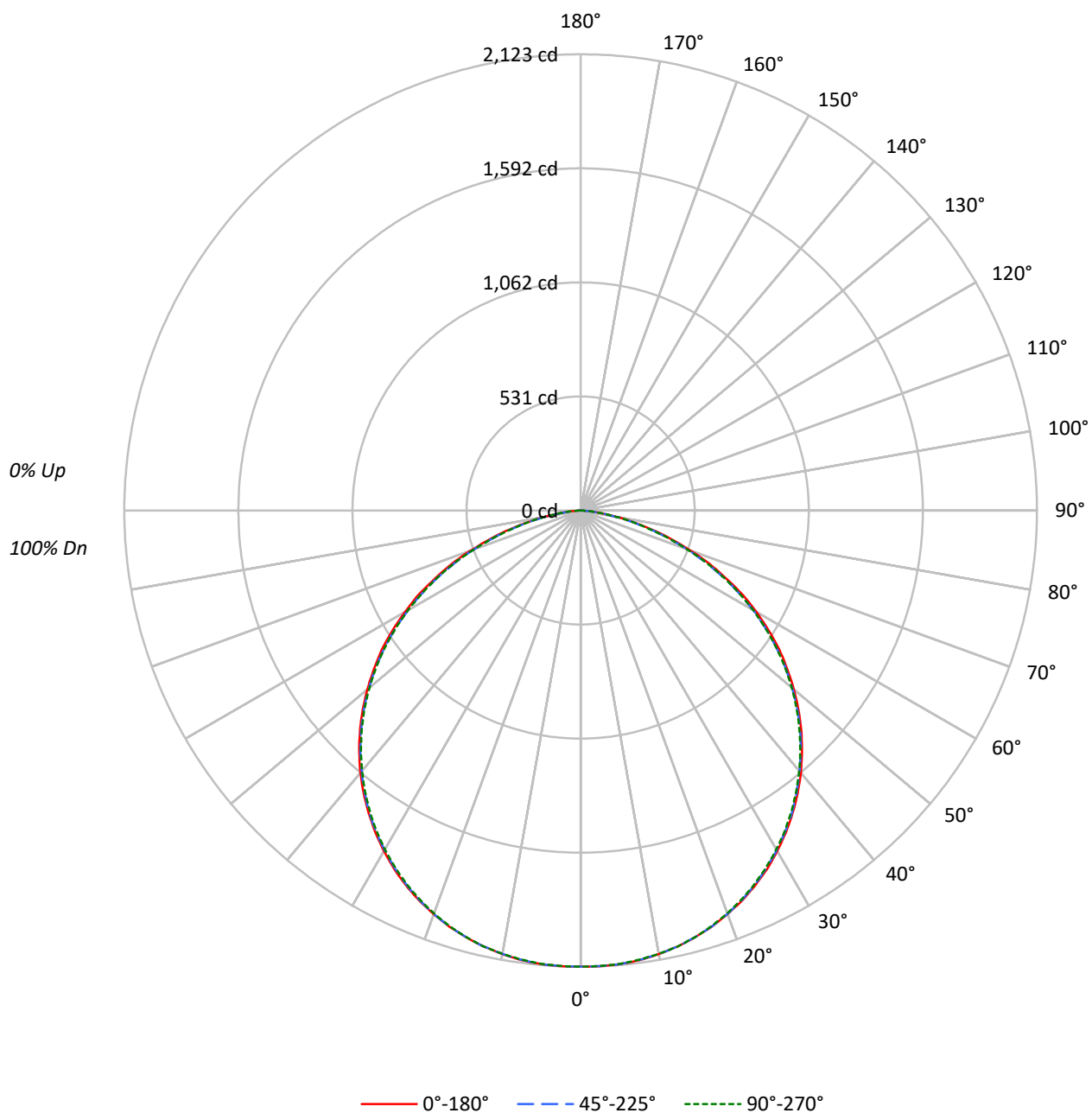
Lumens per Lamp: N/A
Luminaire Lumens: 5999.2 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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°	2856	2856	2856
5°	2862	2862	2860
10°	2864	2863	2862
15°	2864	2863	2863
20°	2862	2860	2856
25°	2856	2850	2846
30°	2843	2835	2829
35°	2825	2817	2807
40°	2800	2783	2778
45°	2764	2748	2739
50°	2712	2691	2683
55°	2648	2610	2607
60°	2537	2492	2492
65°	2374	2318	2325
70°	2136	2070	2065
75°	1794	1722	1714
80°	1310	1245	1299
85°	741	682	693

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2764 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.5	3.4
10°-20°	580.4	9.7
20°-30°	885.0	14.8
30°-40°	1072.2	17.9
40°-50°	1113.7	18.6
50°-60°	996.3	16.6
60°-70°	726.1	12.1
70°-80°	359.6	6.0
80°-90°	64.3	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°	1666.9	27.8
0°-40°	2739.1	45.7
0°-60°	4849.2	80.8
0°-90°	5999.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5999.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2123	2123	2123	2123	2123	
5°	2119	2120	2119	2119	2117	202
15°	2056	2056	2056	2057	2056	581
25°	1924	1922	1920	1919	1917	887
35°	1720	1717	1715	1712	1709	1076
45°	1452	1449	1444	1441	1440	1119
55°	1129	1120	1113	1113	1111	1006
65°	746	740	728	731	730	739
75°	345	340	331	337	330	368
85°	48	44	44	45	45	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2122.6	2122.6	2122.6	2122.6	2122.6
2.5°	2122.6	2121.9	2121.9	2122.6	2121.1
5°	2118.8	2119.6	2118.8	2118.8	2117.3
7.5°	2110.4	2109.7	2108.9	2109.7	2107.4
10°	2096.0	2096.0	2095.2	2096.0	2094.5
12.5°	2078.5	2078.5	2078.5	2079.2	2078.5
15°	2056.4	2055.6	2055.6	2057.1	2055.6
17.5°	2030.5	2029.7	2029.7	2029.0	2027.4
20°	1998.5	1998.5	1997.7	1997.0	1994.7
22.5°	1964.2	1963.5	1961.2	1961.2	1958.1
25°	1923.8	1921.6	1920.0	1919.3	1917.0
27.5°	1879.7	1876.6	1874.3	1872.8	1870.5
30°	1830.2	1827.1	1824.8	1822.6	1821.0
32.5°	1776.9	1775.3	1771.5	1770.8	1767.7
35°	1719.7	1717.4	1715.2	1712.1	1709.1
37.5°	1658.8	1656.5	1651.2	1649.7	1647.4
40°	1594.1	1591.0	1584.2	1584.2	1581.9
42.5°	1524.8	1521.7	1517.1	1514.1	1512.6
45°	1452.4	1449.4	1444.0	1441.0	1439.5
47.5°	1375.5	1373.2	1367.1	1364.8	1362.5
50°	1295.5	1292.5	1285.6	1284.1	1281.8
52.5°	1211.7	1210.2	1201.1	1200.3	1198.0
55°	1128.7	1120.3	1112.7	1112.7	1111.2
57.5°	1037.3	1031.2	1021.3	1021.3	1019.8
60°	942.9	937.6	926.1	927.7	926.1
62.5°	850.7	839.3	828.6	833.2	829.4
65°	745.6	739.5	728.1	731.2	730.4
67.5°	649.7	638.2	627.6	633.7	630.6
70°	543.0	536.9	526.3	532.4	524.8
72.5°	442.5	437.2	426.5	433.4	425.7
75°	345.0	339.7	331.3	337.4	329.8
77.5°	252.9	249.0	241.4	247.5	249.0
80°	169.1	164.5	160.7	166.0	167.6
82.5°	99.0	96.0	94.4	95.2	99.0
85°	48.0	44.2	44.2	44.9	44.9
87.5°	12.9	11.4	12.9	13.7	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)