

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: P974280

Luminaire Tested: FLR2-24-72-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974280
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: FLR2-24-72-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L935-CA125
Ballast/Driver: -

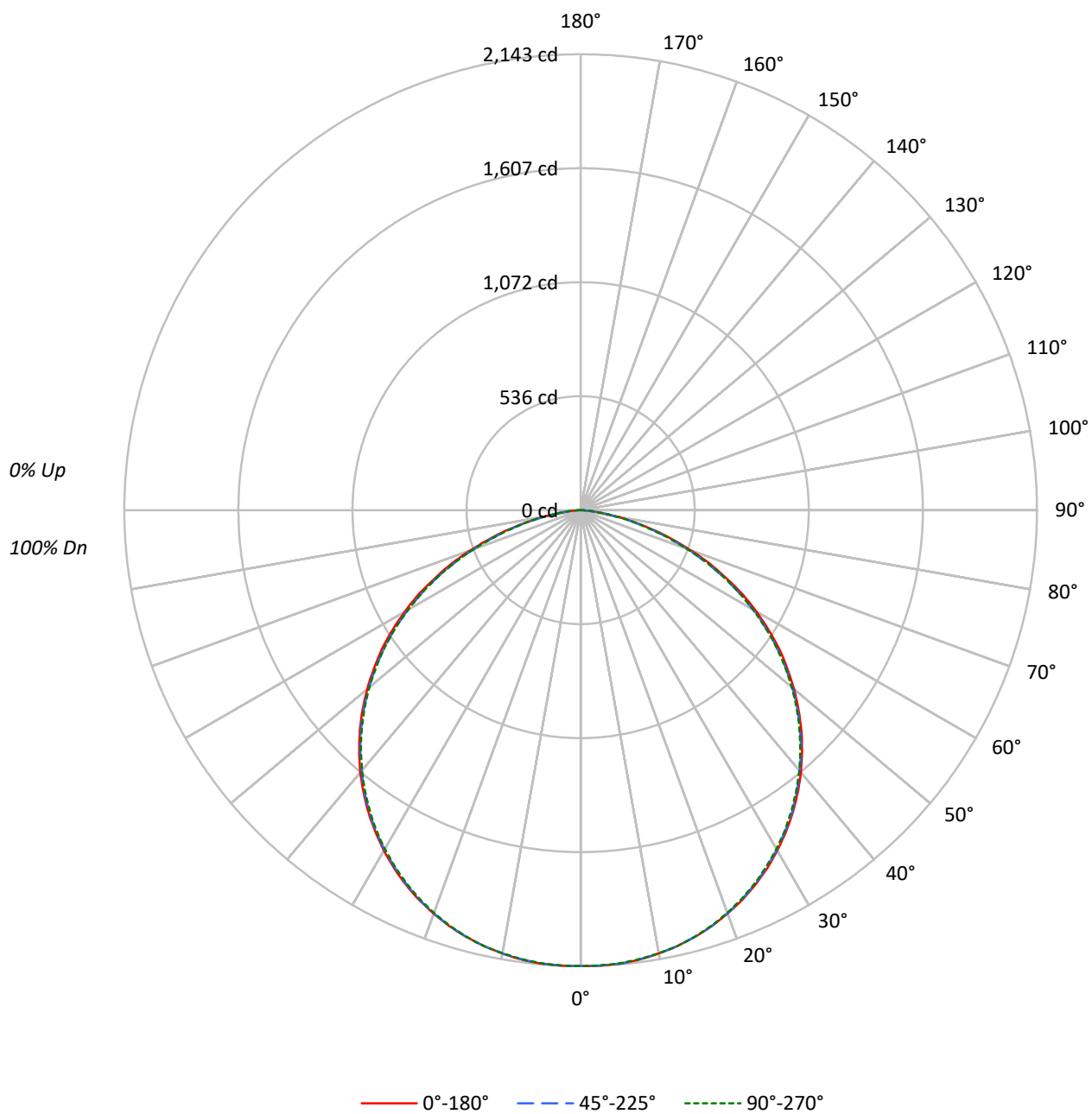
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6056.8 lumens
Efficiency: N/A
Efficacy: 99.5 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): 60.9
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°	2883	2883	2883
5°	2889	2889	2887
10°	2891	2890	2889
15°	2892	2891	2891
20°	2889	2888	2884
25°	2884	2878	2873
30°	2871	2862	2856
35°	2852	2844	2834
40°	2827	2809	2805
45°	2790	2774	2765
50°	2738	2717	2709
55°	2673	2635	2632
60°	2562	2516	2516
65°	2397	2340	2348
70°	2157	2090	2084
75°	1811	1739	1731
80°	1323	1257	1311
85°	747	689	701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2790 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	3.4
10°-20°	586.0	9.7
20°-30°	893.5	14.8
30°-40°	1082.5	17.9
40°-50°	1124.4	18.6
50°-60°	1005.9	16.6
60°-70°	733.1	12.1
70°-80°	363.1	6.0
80°-90°	64.9	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°	1682.9	27.8
0°-40°	2765.4	45.7
0°-60°	4895.8	80.8
0°-90°	6056.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6056.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2143	2143	2143	2143	2143	
5°	2139	2140	2139	2139	2138	203
15°	2076	2075	2075	2077	2075	586
25°	1942	1940	1938	1938	1935	895
35°	1736	1734	1732	1729	1726	1086
45°	1466	1463	1458	1455	1453	1130
55°	1140	1131	1123	1123	1122	1015
65°	753	747	735	738	737	746
75°	348	343	334	341	333	371
85°	48	45	45	45	45	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2143.0	2143.0	2143.0	2143.0	2143.0
2.5°	2143.0	2142.3	2142.3	2143.0	2141.5
5°	2139.2	2140.0	2139.2	2139.2	2137.7
7.5°	2130.7	2130.0	2129.2	2130.0	2127.7
10°	2116.1	2116.1	2115.4	2116.1	2114.6
12.5°	2098.4	2098.4	2098.4	2099.2	2098.4
15°	2076.1	2075.4	2075.4	2076.9	2075.4
17.5°	2050.0	2049.2	2049.2	2048.5	2046.9
20°	2017.7	2017.7	2016.9	2016.2	2013.9
22.5°	1983.1	1982.3	1980.0	1980.0	1976.9
25°	1942.3	1940.0	1938.5	1937.7	1935.4
27.5°	1897.7	1894.7	1892.4	1890.8	1888.5
30°	1847.8	1844.7	1842.4	1840.1	1838.5
32.5°	1793.9	1792.4	1788.6	1787.8	1784.7
35°	1736.3	1734.0	1731.7	1728.6	1725.5
37.5°	1674.7	1672.4	1667.1	1665.5	1663.2
40°	1609.4	1606.3	1599.4	1599.4	1597.1
42.5°	1539.4	1536.3	1531.7	1528.7	1527.1
45°	1466.4	1463.3	1457.9	1454.8	1453.3
47.5°	1388.7	1386.4	1380.2	1377.9	1375.6
50°	1308.0	1304.9	1298.0	1296.4	1294.1
52.5°	1223.4	1221.8	1212.6	1211.8	1209.5
55°	1139.6	1131.1	1123.4	1123.4	1121.9
57.5°	1047.3	1041.1	1031.1	1031.1	1029.6
60°	951.9	946.6	935.0	936.6	935.0
62.5°	858.9	847.4	836.6	841.2	837.4
65°	752.8	746.6	735.1	738.2	737.4
67.5°	655.9	644.4	633.6	639.8	636.7
70°	548.3	542.1	531.3	537.5	529.8
72.5°	446.8	441.4	430.6	437.5	429.8
75°	348.3	342.9	334.5	340.6	333.0
77.5°	255.3	251.4	243.8	249.9	251.4
80°	170.7	166.1	162.2	167.6	169.2
82.5°	100.0	96.9	95.3	96.1	100.0
85°	48.4	44.6	44.6	45.4	45.4
87.5°	13.1	11.5	13.1	13.8	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)