

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: P974224

Luminaire Tested: FLR2-24-72-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974224
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-L835-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L835-CA125
Ballast/Driver: -

Summary

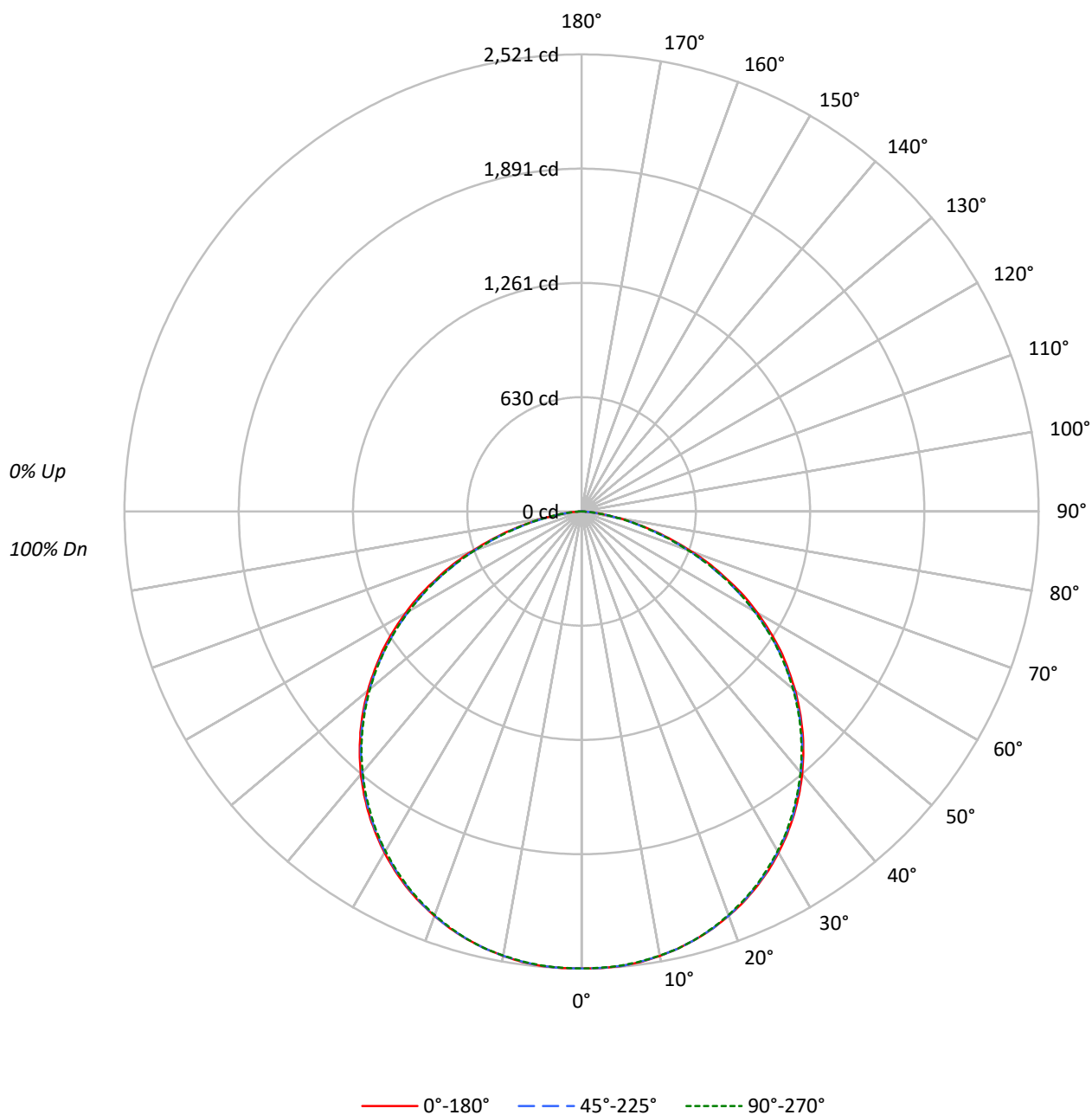
Lumens per Lamp: N/A
Luminaire Lumens: 7125.7 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P974224

CATALOG NUMBER: FLR2-24-72-L835-CA125

Luminous Intensity Polar Plot



TEST NUMBER: P974224

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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°	3392	3392	3392
5°	3399	3399	3397
10°	3401	3400	3399
15°	3402	3401	3401
20°	3399	3398	3392
25°	3392	3386	3380
30°	3377	3368	3361
35°	3355	3346	3334
40°	3326	3305	3300
45°	3283	3264	3253
50°	3221	3196	3187
55°	3145	3100	3096
60°	3014	2960	2960
65°	2819	2753	2762
70°	2537	2459	2452
75°	2130	2046	2036
80°	1556	1479	1542
85°	880	810	824

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3283 cd/sqm

TEST NUMBER: P974224

CATALOG NUMBER: FLR2-24-72-L835-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	3.4
10°-20°	689.4	9.7
20°-30°	1051.2	14.8
30°-40°	1273.5	17.9
40°-50°	1322.9	18.6
50°-60°	1183.4	16.6
60°-70°	862.5	12.1
70°-80°	427.1	6.0
80°-90°	76.4	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°	1979.9	27.8
0°-40°	3253.4	45.7
0°-60°	5759.7	80.8
0°-90°	7125.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7125.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2521	2521	2521	2521	2521	
5°	2517	2518	2517	2517	2515	239
15°	2442	2442	2442	2443	2442	690
25°	2285	2282	2281	2280	2277	1053
35°	2043	2040	2037	2034	2030	1278
45°	1725	1722	1715	1712	1710	1329
55°	1341	1331	1322	1322	1320	1194
65°	886	878	865	868	868	878
75°	410	404	394	401	392	437
85°	57	52	52	53	53	79
90°	0	0	0	0	0	

TEST NUMBER: P974224

CATALOG NUMBER: FLR2-24-72-L835-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2521.2	2521.2	2521.2	2521.2	2521.2
2.5°	2521.2	2520.3	2520.3	2521.2	2519.4
5°	2516.7	2517.6	2516.7	2516.7	2514.9
7.5°	2506.7	2505.8	2504.9	2505.8	2503.1
10°	2489.6	2489.6	2488.6	2489.6	2487.7
12.5°	2468.7	2468.7	2468.7	2469.7	2468.7
15°	2442.5	2441.6	2441.6	2443.4	2441.6
17.5°	2411.8	2410.9	2410.9	2409.9	2408.1
20°	2373.8	2373.8	2372.9	2372.0	2369.2
22.5°	2333.1	2332.1	2329.4	2329.4	2325.8
25°	2285.1	2282.4	2280.6	2279.7	2277.0
27.5°	2232.6	2229.0	2226.3	2224.5	2221.8
30°	2173.8	2170.2	2167.5	2164.8	2163.0
32.5°	2110.5	2108.7	2104.2	2103.3	2099.7
35°	2042.7	2040.0	2037.2	2033.6	2030.0
37.5°	1970.3	1967.6	1961.2	1959.4	1956.7
40°	1893.4	1889.8	1881.6	1881.6	1878.9
42.5°	1811.1	1807.5	1802.0	1798.4	1796.6
45°	1725.1	1721.5	1715.2	1711.6	1709.8
47.5°	1633.8	1631.1	1623.8	1621.1	1618.4
50°	1538.8	1535.2	1527.0	1525.2	1522.5
52.5°	1439.3	1437.5	1426.6	1425.7	1423.0
55°	1340.7	1330.7	1321.7	1321.7	1319.9
57.5°	1232.1	1224.9	1213.1	1213.1	1211.3
60°	1119.9	1113.6	1100.0	1101.8	1100.0
62.5°	1010.5	996.9	984.2	989.7	985.1
65°	885.6	878.4	864.8	868.4	867.5
67.5°	771.7	758.1	745.4	752.7	749.0
70°	645.0	637.8	625.1	632.3	623.3
72.5°	525.6	519.3	506.6	514.7	505.7
75°	409.8	403.5	393.5	400.8	391.7
77.5°	300.3	295.8	286.8	294.0	295.8
80°	200.8	195.4	190.9	197.2	199.0
82.5°	117.6	114.0	112.2	113.1	117.6
85°	57.0	52.5	52.5	53.4	53.4
87.5°	15.4	13.6	15.4	16.3	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)