

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: P974408

Luminaire Tested: FLR2-24-72-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974408
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-L850-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L850-CP125
Ballast/Driver: -

Summary

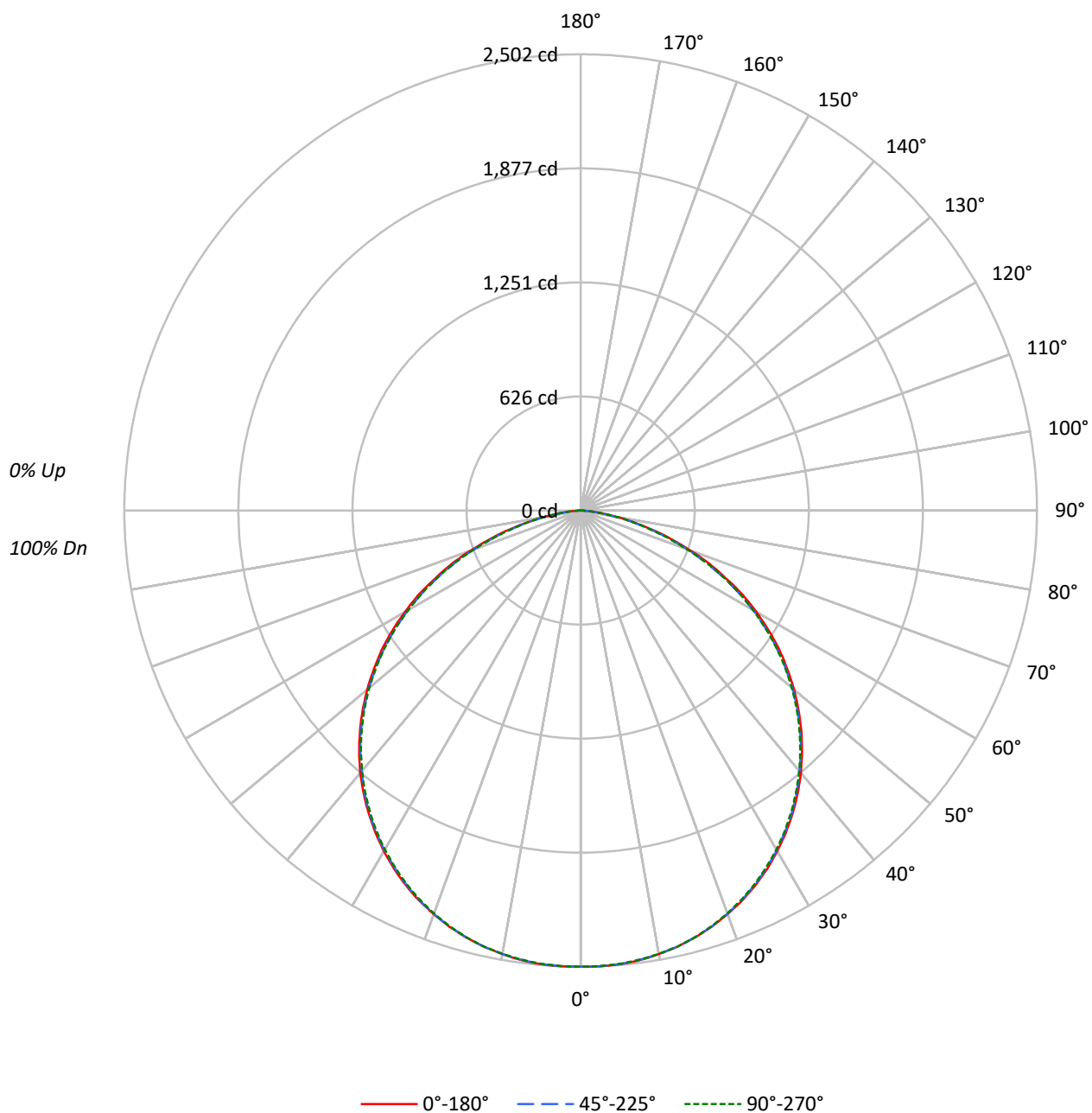
Lumens per Lamp: N/A
Luminaire Lumens: 7071.1 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3366	3366	3366
5°	3373	3373	3371
10°	3375	3374	3373
15°	3376	3375	3375
20°	3373	3371	3366
25°	3366	3360	3354
30°	3352	3342	3335
35°	3329	3321	3309
40°	3300	3280	3275
45°	3257	3239	3228
50°	3196	3172	3162
55°	3121	3077	3072
60°	2990	2937	2937
65°	2798	2732	2741
70°	2518	2440	2433
75°	2114	2030	2021
80°	1544	1468	1530
85°	874	804	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3257 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.5	3.4
10°-20°	684.1	9.7
20°-30°	1043.1	14.8
30°-40°	1263.8	17.9
40°-50°	1312.7	18.6
50°-60°	1174.3	16.6
60°-70°	855.9	12.1
70°-80°	423.9	6.0
80°-90°	75.8	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°	1964.7	27.8
0°-40°	3228.5	45.7
0°-60°	5715.6	80.8
0°-90°	7071.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7071.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2502	2502	2502	2502	2502	
5°	2497	2498	2497	2497	2496	238
15°	2424	2423	2423	2425	2423	684
25°	2268	2265	2263	2262	2260	1045
35°	2027	2024	2022	2018	2014	1268
45°	1712	1708	1702	1698	1697	1319
55°	1330	1320	1312	1312	1310	1185
65°	879	872	858	862	861	871
75°	407	400	390	398	389	434
85°	57	52	52	53	53	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2501.9	2501.9	2501.9	2501.9	2501.9
2.5°	2501.9	2501.0	2501.0	2501.9	2500.1
5°	2497.4	2498.3	2497.4	2497.4	2495.6
7.5°	2487.5	2486.6	2485.7	2486.6	2483.9
10°	2470.4	2470.4	2469.6	2470.4	2468.7
12.5°	2449.8	2449.8	2449.8	2450.7	2449.8
15°	2423.8	2422.9	2422.9	2424.7	2422.9
17.5°	2393.2	2392.4	2392.4	2391.5	2389.7
20°	2355.5	2355.5	2354.6	2353.7	2351.1
22.5°	2315.1	2314.3	2311.6	2311.6	2308.0
25°	2267.6	2264.9	2263.1	2262.2	2259.5
27.5°	2215.5	2211.9	2209.2	2207.4	2204.7
30°	2157.2	2153.6	2150.9	2148.2	2146.4
32.5°	2094.3	2092.5	2088.0	2087.1	2083.5
35°	2027.0	2024.3	2021.6	2018.0	2014.4
37.5°	1955.2	1952.5	1946.2	1944.4	1941.7
40°	1878.9	1875.3	1867.2	1867.2	1864.5
42.5°	1797.2	1793.6	1788.2	1784.6	1782.8
45°	1711.9	1708.3	1702.0	1698.4	1696.6
47.5°	1621.2	1618.5	1611.4	1608.7	1606.0
50°	1527.0	1523.4	1515.3	1513.5	1510.8
52.5°	1428.2	1426.4	1415.7	1414.8	1412.1
55°	1330.4	1320.5	1311.5	1311.5	1309.7
57.5°	1222.7	1215.5	1203.8	1203.8	1202.0
60°	1111.3	1105.1	1091.6	1093.4	1091.6
62.5°	1002.7	989.3	976.7	982.1	977.6
65°	878.8	871.7	858.2	861.8	860.9
67.5°	765.7	752.3	739.7	746.9	743.3
70°	640.1	632.9	620.3	627.5	618.5
72.5°	521.6	515.3	502.7	510.8	501.8
75°	406.7	400.4	390.5	397.7	388.7
77.5°	298.0	293.5	284.6	291.8	293.5
80°	199.3	193.9	189.4	195.7	197.5
82.5°	116.7	113.1	111.3	112.2	116.7
85°	56.6	52.1	52.1	53.0	53.0
87.5°	15.3	13.5	15.3	16.2	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)