

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: P974112

Luminaire Tested: FLR2-24-72-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974112
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-L830-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L830-CA125
Ballast/Driver: -

Summary

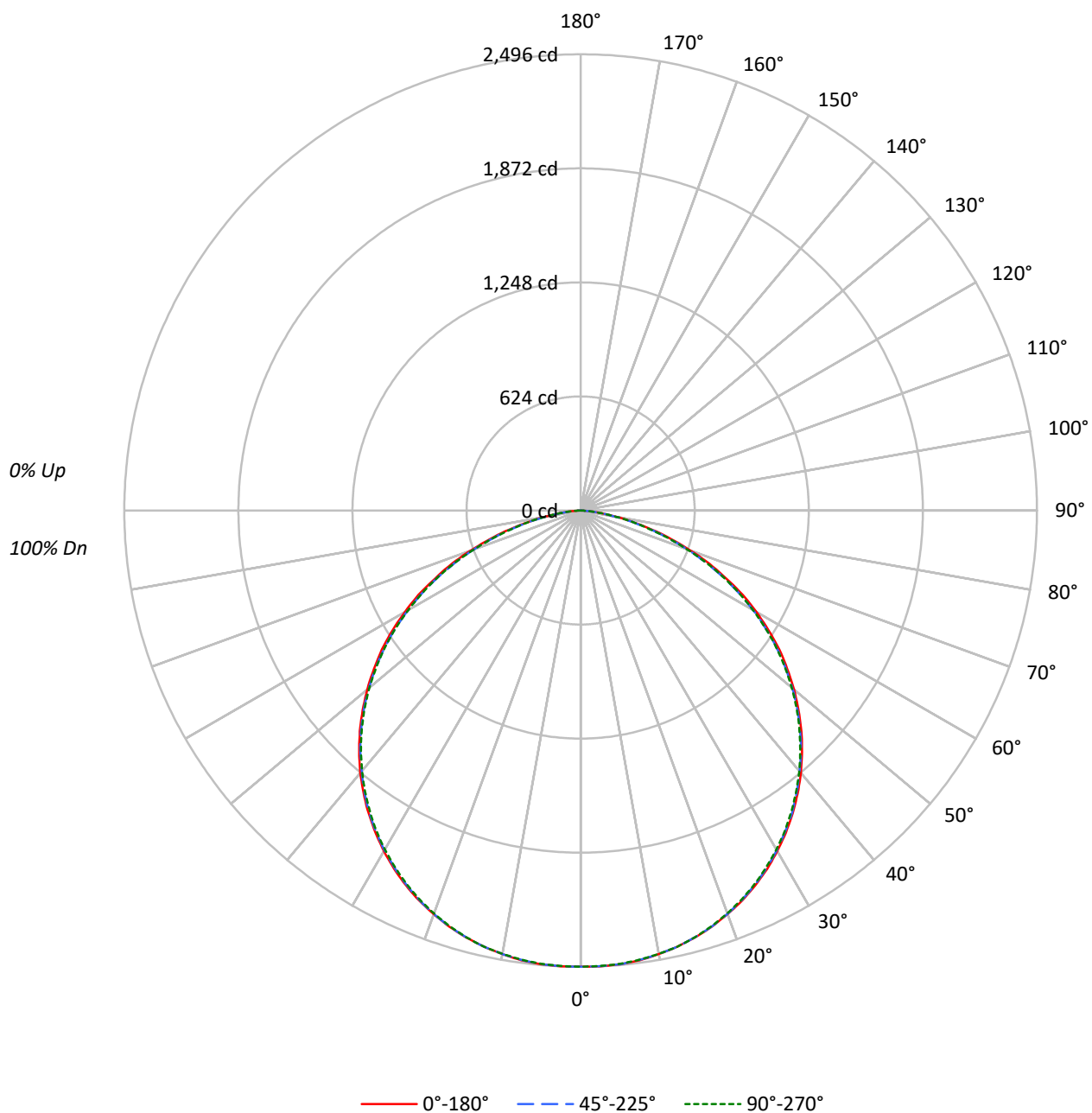
Lumens per Lamp: N/A
Luminaire Lumens: 7054.4 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3358	3358	3358
5°	3365	3365	3363
10°	3367	3366	3365
15°	3368	3367	3367
20°	3365	3364	3358
25°	3359	3352	3347
30°	3344	3334	3327
35°	3322	3313	3301
40°	3292	3272	3267
45°	3250	3231	3221
50°	3189	3165	3155
55°	3114	3069	3065
60°	2983	2930	2930
65°	2791	2726	2734
70°	2512	2435	2428
75°	2109	2025	2016
80°	1540	1464	1526
85°	871	801	815

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3250 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.9	3.4
10°-20°	682.5	9.7
20°-30°	1040.6	14.8
30°-40°	1260.8	17.9
40°-50°	1309.7	18.6
50°-60°	1171.6	16.6
60°-70°	853.9	12.1
70°-80°	422.9	6.0
80°-90°	75.6	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°	1960.1	27.8
0°-40°	3220.9	45.7
0°-60°	5702.1	80.8
0°-90°	7054.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7054.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2496	2496	2496	2496	2496	
5°	2492	2492	2492	2492	2490	237
15°	2418	2417	2417	2419	2417	683
25°	2262	2260	2258	2257	2254	1043
35°	2022	2020	2017	2013	2010	1265
45°	1708	1704	1698	1694	1693	1316
55°	1327	1317	1308	1308	1307	1183
65°	877	870	856	860	859	869
75°	406	399	390	397	388	433
85°	56	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°	2496.0	2496.0	2496.0	2496.0	2496.0
2.5°	2496.0	2495.1	2495.1	2496.0	2494.2
5°	2491.5	2492.4	2491.5	2491.5	2489.7
7.5°	2481.7	2480.8	2479.9	2480.8	2478.1
10°	2464.7	2464.7	2463.8	2464.7	2462.9
12.5°	2444.1	2444.1	2444.1	2445.0	2444.1
15°	2418.1	2417.2	2417.2	2419.0	2417.2
17.5°	2387.6	2386.7	2386.7	2385.8	2384.1
20°	2350.0	2350.0	2349.1	2348.2	2345.5
22.5°	2309.7	2308.8	2306.1	2306.1	2302.6
25°	2262.3	2259.6	2257.8	2256.9	2254.2
27.5°	2210.3	2206.7	2204.0	2202.3	2199.6
30°	2152.1	2148.5	2145.8	2143.1	2141.4
32.5°	2089.4	2087.6	2083.1	2082.2	2078.7
35°	2022.2	2019.6	2016.9	2013.3	2009.7
37.5°	1950.6	1947.9	1941.6	1939.8	1937.2
40°	1874.5	1870.9	1862.8	1862.8	1860.1
42.5°	1793.0	1789.4	1784.0	1780.4	1778.6
45°	1707.9	1704.3	1698.0	1694.5	1692.7
47.5°	1617.4	1614.7	1607.6	1604.9	1602.2
50°	1523.4	1519.8	1511.8	1510.0	1507.3
52.5°	1424.9	1423.1	1412.3	1411.4	1408.8
55°	1327.3	1317.4	1308.5	1308.5	1306.7
57.5°	1219.8	1212.6	1201.0	1201.0	1199.2
60°	1108.7	1102.5	1089.0	1090.8	1089.0
62.5°	1000.4	986.9	974.4	979.8	975.3
65°	876.8	869.6	856.2	859.8	858.9
67.5°	763.9	750.5	738.0	745.1	741.5
70°	638.6	631.4	618.9	626.0	617.1
72.5°	520.3	514.1	501.5	509.6	500.6
75°	405.7	399.4	389.6	396.7	387.8
77.5°	297.3	292.9	283.9	291.1	292.9
80°	198.8	193.4	189.0	195.2	197.0
82.5°	116.4	112.8	111.1	111.9	116.4
85°	56.4	51.9	51.9	52.8	52.8
87.5°	15.2	13.4	15.2	16.1	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)