

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: P974072

Luminaire Tested: FLR2-24-72-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974072
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L830-CP125
Ballast/Driver: -

Summary

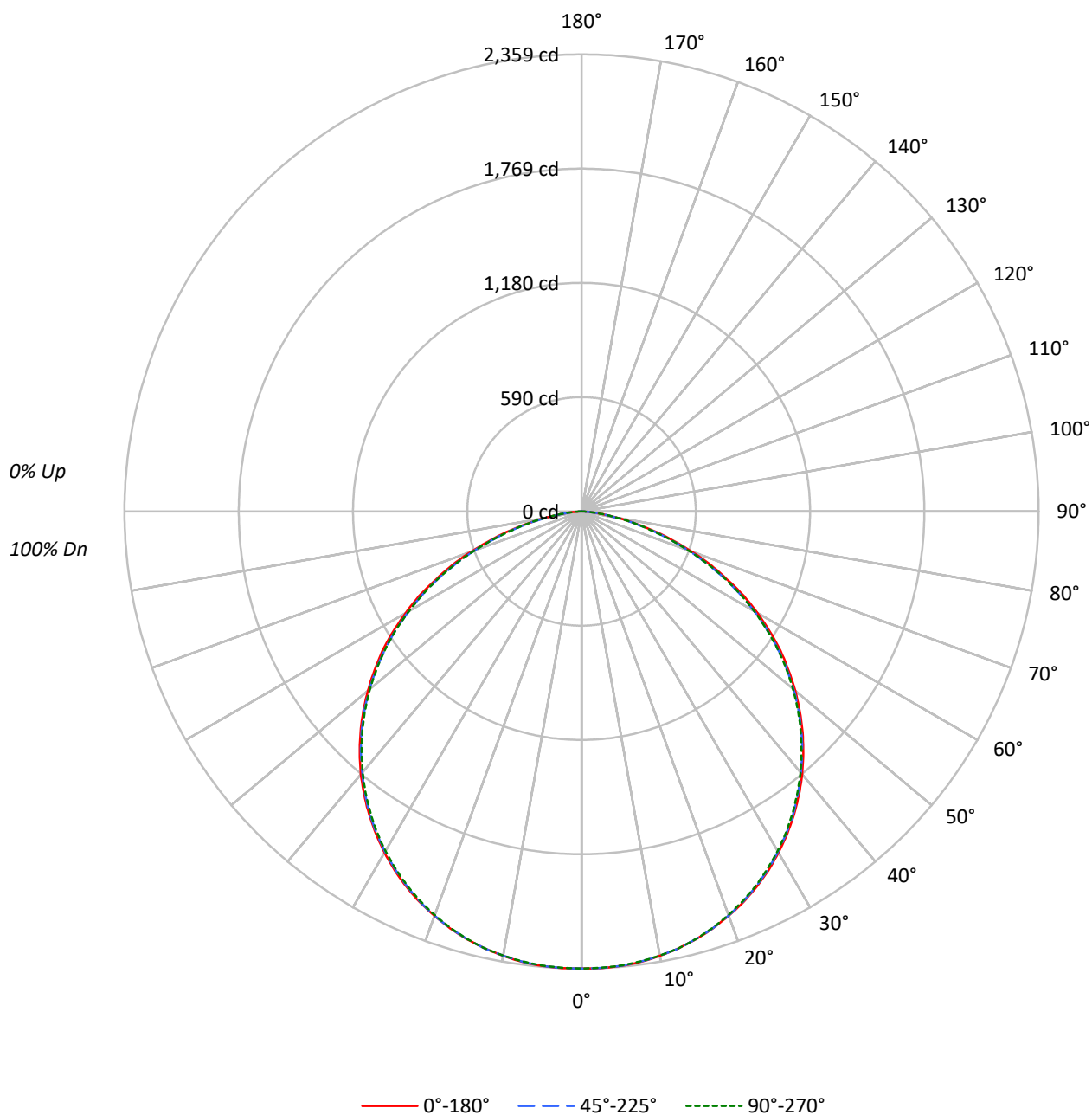
Lumens per Lamp: N/A
Luminaire Lumens: 6667.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3174	3174	3174
5°	3180	3180	3178
10°	3182	3181	3180
15°	3183	3182	3182
20°	3180	3179	3174
25°	3174	3168	3163
30°	3160	3151	3144
35°	3139	3131	3120
40°	3111	3092	3088
45°	3071	3054	3044
50°	3014	2991	2982
55°	2943	2901	2897
60°	2820	2770	2770
65°	2638	2576	2584
70°	2374	2301	2294
75°	1993	1914	1905
80°	1456	1384	1443
85°	823	758	770

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3071 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.9	3.4
10°-20°	645.0	9.7
20°-30°	983.5	14.8
30°-40°	1191.6	17.9
40°-50°	1237.7	18.6
50°-60°	1107.2	16.6
60°-70°	807.0	12.1
70°-80°	399.6	6.0
80°-90°	71.4	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°	1852.4	27.8
0°-40°	3044.0	45.7
0°-60°	5388.9	80.8
0°-90°	6667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6667.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2359	2359	2359	2359	2359	
5°	2355	2356	2355	2355	2353	224
15°	2285	2284	2284	2286	2284	645
25°	2138	2136	2134	2133	2130	985
35°	1911	1909	1906	1903	1899	1195
45°	1614	1611	1605	1601	1600	1244
55°	1254	1245	1237	1237	1235	1118
65°	829	822	809	812	812	821
75°	383	378	368	375	366	409
85°	53	49	49	50	50	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2358.9	2358.9	2358.9	2358.9	2358.9
2.5°	2358.9	2358.1	2358.1	2358.9	2357.2
5°	2354.7	2355.5	2354.7	2354.7	2353.0
7.5°	2345.4	2344.5	2343.7	2344.5	2342.0
10°	2329.3	2329.3	2328.4	2329.3	2327.6
12.5°	2309.8	2309.8	2309.8	2310.7	2309.8
15°	2285.3	2284.4	2284.4	2286.1	2284.4
17.5°	2256.5	2255.6	2255.6	2254.8	2253.1
20°	2220.9	2220.9	2220.1	2219.2	2216.7
22.5°	2182.9	2182.0	2179.5	2179.5	2176.1
25°	2138.0	2135.5	2133.8	2132.9	2130.4
27.5°	2088.9	2085.5	2083.0	2081.3	2078.7
30°	2033.9	2030.5	2028.0	2025.4	2023.7
32.5°	1974.6	1972.9	1968.7	1967.9	1964.5
35°	1911.2	1908.6	1906.1	1902.7	1899.3
37.5°	1843.4	1840.9	1835.0	1833.3	1830.8
40°	1771.5	1768.1	1760.5	1760.5	1758.0
42.5°	1694.5	1691.1	1686.0	1682.6	1680.9
45°	1614.1	1610.7	1604.8	1601.4	1599.7
47.5°	1528.6	1526.1	1519.3	1516.7	1514.2
50°	1439.7	1436.3	1428.7	1427.0	1424.5
52.5°	1346.6	1344.9	1334.8	1333.9	1331.4
55°	1254.4	1245.0	1236.6	1236.6	1234.9
57.5°	1152.8	1146.0	1135.0	1135.0	1133.3
60°	1047.8	1041.9	1029.2	1030.9	1029.2
62.5°	945.4	932.7	920.9	926.0	921.7
65°	828.6	821.9	809.2	812.5	811.7
67.5°	722.0	709.3	697.4	704.2	700.8
70°	603.5	596.7	584.9	591.6	583.2
72.5°	491.8	485.8	474.0	481.6	473.1
75°	383.4	377.5	368.2	375.0	366.5
77.5°	281.0	276.8	268.3	275.1	276.8
80°	187.9	182.8	178.6	184.5	186.2
82.5°	110.0	106.6	105.0	105.8	110.0
85°	53.3	49.1	49.1	49.9	49.9
87.5°	14.4	12.7	14.4	15.2	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)