

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: P974096

Luminaire Tested: FLR2-24-72-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974096
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L830-CP375
Ballast/Driver: -

Summary

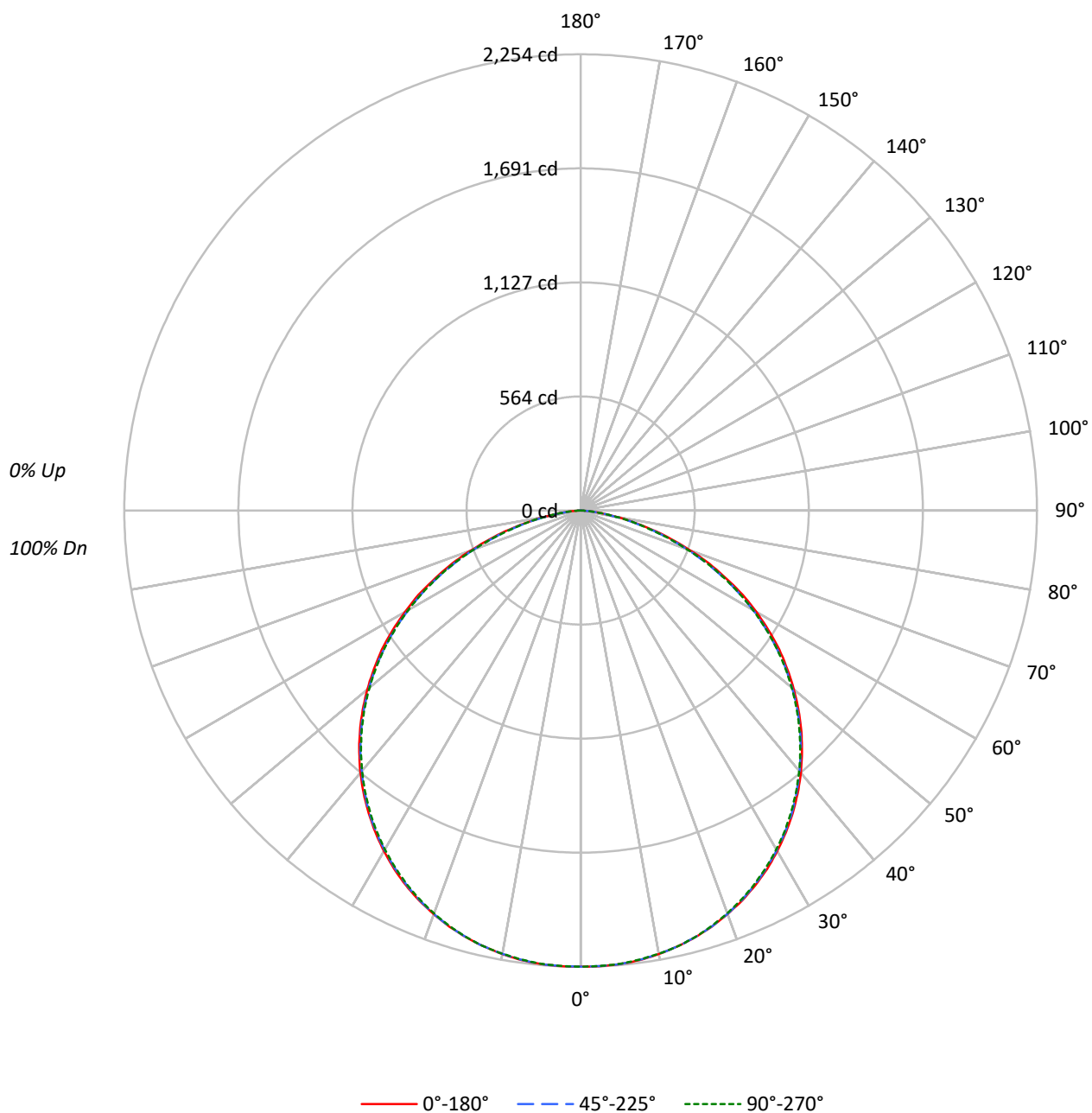
Lumens per Lamp: N/A
Luminaire Lumens: 6369.4 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3032	3032	3032
5°	3038	3038	3036
10°	3040	3039	3038
15°	3041	3040	3040
20°	3038	3037	3032
25°	3032	3026	3022
30°	3019	3010	3004
35°	2999	2991	2980
40°	2973	2954	2950
45°	2934	2917	2908
50°	2879	2857	2849
55°	2811	2771	2768
60°	2694	2646	2646
65°	2520	2461	2469
70°	2268	2198	2192
75°	1904	1828	1820
80°	1391	1322	1378
85°	786	724	736

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2934 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	3.4
10°-20°	616.3	9.7
20°-30°	939.6	14.8
30°-40°	1138.4	17.9
40°-50°	1182.5	18.6
50°-60°	1057.8	16.6
60°-70°	771.0	12.1
70°-80°	381.8	6.0
80°-90°	68.2	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°	1769.8	27.8
0°-40°	2908.1	45.7
0°-60°	5148.4	80.8
0°-90°	6369.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6369.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2254	2254	2254	2254	2254	
5°	2250	2250	2250	2250	2248	214
15°	2183	2182	2182	2184	2182	616
25°	2043	2040	2038	2038	2035	941
35°	1826	1823	1821	1818	1814	1142
45°	1542	1539	1533	1530	1528	1188
55°	1198	1190	1181	1181	1180	1068
65°	792	785	773	776	776	785
75°	366	361	352	358	350	391
85°	51	47	47	48	48	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2253.6	2253.6	2253.6	2253.6	2253.6
2.5°	2253.6	2252.8	2252.8	2253.6	2252.0
5°	2249.6	2250.4	2249.6	2249.6	2248.0
7.5°	2240.7	2239.9	2239.1	2239.9	2237.4
10°	2225.3	2225.3	2224.5	2225.3	2223.7
12.5°	2206.7	2206.7	2206.7	2207.5	2206.7
15°	2183.3	2182.5	2182.5	2184.1	2182.5
17.5°	2155.8	2155.0	2155.0	2154.2	2152.5
20°	2121.8	2121.8	2121.0	2120.2	2117.8
22.5°	2085.4	2084.6	2082.2	2082.2	2079.0
25°	2042.6	2040.1	2038.5	2037.7	2035.3
27.5°	1995.7	1992.4	1990.0	1988.4	1986.0
30°	1943.1	1939.9	1937.4	1935.0	1933.4
32.5°	1886.5	1884.9	1880.8	1880.0	1876.8
35°	1825.9	1823.4	1821.0	1817.8	1814.5
37.5°	1761.2	1758.7	1753.1	1751.5	1749.0
40°	1692.4	1689.2	1681.9	1681.9	1679.5
42.5°	1618.9	1615.6	1610.8	1607.5	1605.9
45°	1542.0	1538.8	1533.1	1529.9	1528.3
47.5°	1460.4	1457.9	1451.5	1449.0	1446.6
50°	1375.5	1372.2	1364.9	1363.3	1360.9
52.5°	1286.5	1284.9	1275.2	1274.4	1272.0
55°	1198.4	1189.5	1181.4	1181.4	1179.8
57.5°	1101.3	1094.9	1084.4	1084.4	1082.7
60°	1001.1	995.4	983.3	984.9	983.3
62.5°	903.2	891.1	879.8	884.6	880.6
65°	791.6	785.2	773.0	776.3	775.5
67.5°	689.8	677.6	666.3	672.8	669.5
70°	576.5	570.1	558.8	565.2	557.1
72.5°	469.8	464.1	452.8	460.1	452.0
75°	366.3	360.6	351.7	358.2	350.1
77.5°	268.5	264.4	256.3	262.8	264.4
80°	179.5	174.7	170.6	176.3	177.9
82.5°	105.1	101.9	100.3	101.1	105.1
85°	50.9	46.9	46.9	47.7	47.7
87.5°	13.7	12.1	13.7	14.6	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)