

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: P974216

Luminaire Tested: FLR2-24-72-L835-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974216
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L835-CA080
Ballast/Driver: -

Summary

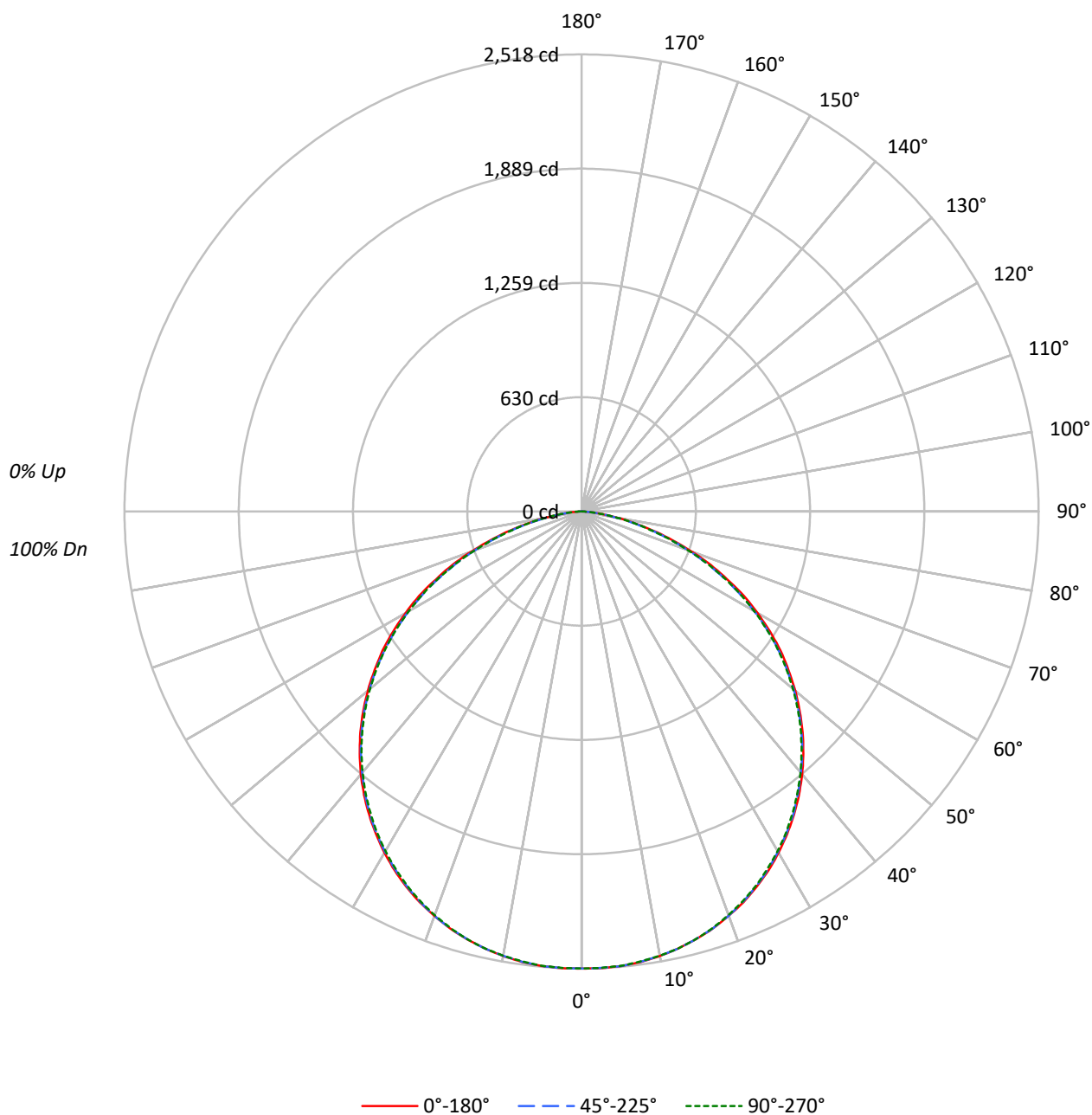
Lumens per Lamp: N/A
Luminaire Lumens: 7118.1 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3389	3389	3389
5°	3395	3395	3393
10°	3398	3396	3395
15°	3399	3397	3397
20°	3395	3394	3389
25°	3389	3382	3377
30°	3374	3364	3357
35°	3352	3343	3331
40°	3322	3301	3297
45°	3279	3260	3250
50°	3217	3193	3184
55°	3141	3097	3093
60°	3010	2957	2957
65°	2817	2750	2759
70°	2535	2456	2449
75°	2128	2044	2034
80°	1554	1478	1540
85°	878	809	823

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3279 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.1	3.4
10°-20°	688.7	9.7
20°-30°	1050.0	14.8
30°-40°	1272.2	17.9
40°-50°	1321.5	18.6
50°-60°	1182.1	16.6
60°-70°	861.6	12.1
70°-80°	426.7	6.0
80°-90°	76.3	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°	1977.8	27.8
0°-40°	3249.9	45.7
0°-60°	5753.5	80.8
0°-90°	7118.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7118.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2518	2518	2518	2518	2518	
5°	2514	2515	2514	2514	2512	239
15°	2440	2439	2439	2441	2439	689
25°	2283	2280	2278	2277	2274	1052
35°	2040	2038	2035	2031	2028	1276
45°	1723	1720	1713	1710	1708	1328
55°	1339	1329	1320	1320	1318	1193
65°	885	878	864	868	867	877
75°	409	403	393	400	391	436
85°	57	52	52	53	53	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2518.5	2518.5	2518.5	2518.5	2518.5
2.5°	2518.5	2517.6	2517.6	2518.5	2516.7
5°	2514.0	2514.9	2514.0	2514.0	2512.2
7.5°	2504.0	2503.1	2502.2	2503.1	2500.4
10°	2486.9	2486.9	2486.0	2486.9	2485.1
12.5°	2466.1	2466.1	2466.1	2467.0	2466.1
15°	2439.9	2439.0	2439.0	2440.8	2439.0
17.5°	2409.2	2408.3	2408.3	2407.3	2405.5
20°	2371.2	2371.2	2370.3	2369.4	2366.7
22.5°	2330.5	2329.6	2326.9	2326.9	2323.3
25°	2282.6	2279.9	2278.1	2277.2	2274.5
27.5°	2230.2	2226.6	2223.9	2222.1	2219.4
30°	2171.5	2167.9	2165.2	2162.5	2160.7
32.5°	2108.2	2106.4	2101.9	2101.0	2097.4
35°	2040.5	2037.8	2035.0	2031.4	2027.8
37.5°	1968.2	1965.5	1959.1	1957.3	1954.6
40°	1891.4	1887.7	1879.6	1879.6	1876.9
42.5°	1809.1	1805.5	1800.1	1796.5	1794.7
45°	1723.3	1719.7	1713.3	1709.7	1707.9
47.5°	1632.0	1629.3	1622.1	1619.4	1616.6
50°	1537.1	1533.5	1525.4	1523.6	1520.9
52.5°	1437.7	1435.9	1425.1	1424.2	1421.5
55°	1339.2	1329.3	1320.2	1320.2	1318.4
57.5°	1230.8	1223.6	1211.8	1211.8	1210.0
60°	1118.7	1112.4	1098.9	1100.7	1098.9
62.5°	1009.4	995.8	983.2	988.6	984.1
65°	884.7	877.5	863.9	867.5	866.6
67.5°	770.8	757.3	744.6	751.8	748.2
70°	644.3	637.1	624.4	631.7	622.6
72.5°	525.0	518.7	506.0	514.2	505.1
75°	409.4	403.0	393.1	400.3	391.3
77.5°	300.0	295.5	286.5	293.7	295.5
80°	200.6	195.2	190.7	197.0	198.8
82.5°	117.5	113.9	112.1	113.0	117.5
85°	56.9	52.4	52.4	53.3	53.3
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)