

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: P974424

Luminaire Tested: FLR2-24-72-L850-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974424
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L850-CP250
Ballast/Driver: -

Summary

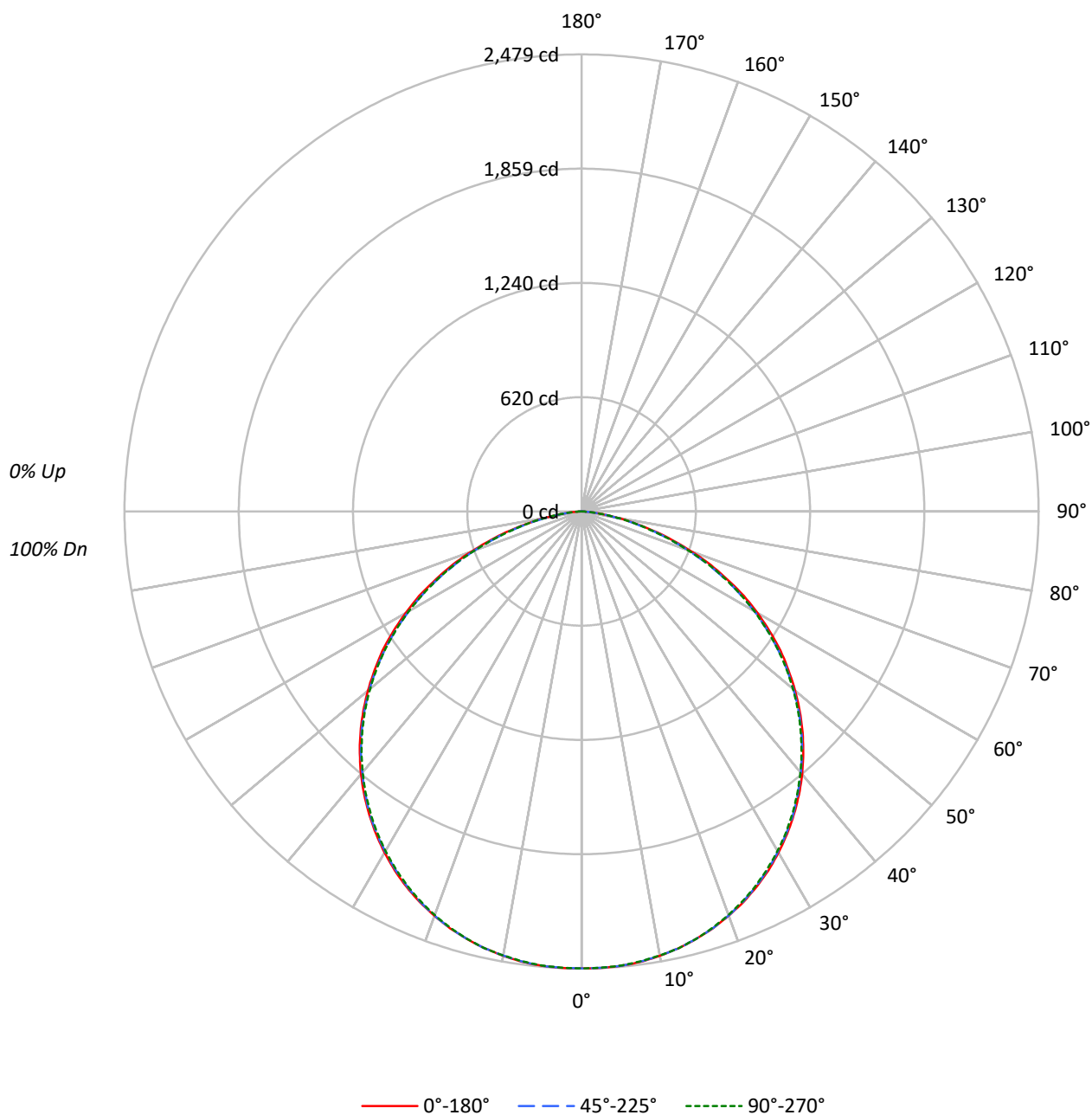
Lumens per Lamp: N/A
Luminaire Lumens: 7005.2 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3335	3335	3335
5°	3342	3342	3339
10°	3344	3343	3341
15°	3345	3344	3344
20°	3341	3340	3335
25°	3335	3328	3323
30°	3320	3311	3304
35°	3298	3290	3278
40°	3269	3249	3244
45°	3227	3209	3198
50°	3167	3142	3133
55°	3092	3048	3044
60°	2963	2910	2910
65°	2772	2707	2715
70°	2495	2417	2411
75°	2095	2011	2002
80°	1530	1454	1516
85°	865	797	810

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3227 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	3.4
10°-20°	677.8	9.7
20°-30°	1033.4	14.8
30°-40°	1252.0	17.9
40°-50°	1300.5	18.6
50°-60°	1163.4	16.6
60°-70°	847.9	12.1
70°-80°	419.9	6.0
80°-90°	75.1	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°	1946.4	27.8
0°-40°	3198.4	45.7
0°-60°	5662.3	80.8
0°-90°	7005.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7005.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2479	2479	2479	2479	2479	
5°	2474	2475	2474	2474	2472	235
15°	2401	2400	2400	2402	2400	678
25°	2246	2244	2242	2241	2238	1035
35°	2008	2006	2003	1999	1996	1256
45°	1696	1692	1686	1683	1681	1307
55°	1318	1308	1299	1299	1298	1174
65°	871	864	850	854	853	863
75°	403	397	387	394	385	430
85°	56	52	52	52	52	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2478.6	2478.6	2478.6	2478.6	2478.6
2.5°	2478.6	2477.7	2477.7	2478.6	2476.8
5°	2474.1	2475.0	2474.1	2474.1	2472.4
7.5°	2464.4	2463.5	2462.6	2463.5	2460.8
10°	2447.5	2447.5	2446.6	2447.5	2445.7
12.5°	2427.0	2427.0	2427.0	2427.9	2427.0
15°	2401.2	2400.3	2400.3	2402.1	2400.3
17.5°	2371.0	2370.1	2370.1	2369.2	2367.4
20°	2333.6	2333.6	2332.7	2331.8	2329.2
22.5°	2293.6	2292.7	2290.0	2290.0	2286.5
25°	2246.5	2243.8	2242.0	2241.1	2238.5
27.5°	2194.9	2191.3	2188.7	2186.9	2184.2
30°	2137.1	2133.5	2130.9	2128.2	2126.4
32.5°	2074.8	2073.0	2068.6	2067.7	2064.2
35°	2008.1	2005.5	2002.8	1999.2	1995.7
37.5°	1937.0	1934.3	1928.1	1926.3	1923.6
40°	1861.4	1857.8	1849.8	1849.8	1847.2
42.5°	1780.5	1776.9	1771.6	1768.0	1766.2
45°	1696.0	1692.4	1686.2	1682.6	1680.8
47.5°	1606.1	1603.5	1596.4	1593.7	1591.0
50°	1512.8	1509.2	1501.2	1499.4	1496.8
52.5°	1414.9	1413.2	1402.5	1401.6	1398.9
55°	1318.0	1308.2	1299.3	1299.3	1297.5
57.5°	1211.3	1204.2	1192.6	1192.6	1190.8
60°	1101.0	1094.8	1081.4	1083.2	1081.4
62.5°	993.4	980.1	967.6	972.9	968.5
65°	870.7	863.5	850.2	853.8	852.9
67.5°	758.6	745.3	732.8	739.9	736.4
70°	634.1	627.0	614.5	621.6	612.8
72.5°	516.7	510.5	498.0	506.0	497.1
75°	402.9	396.6	386.9	394.0	385.1
77.5°	295.3	290.8	281.9	289.0	290.8
80°	197.4	192.1	187.7	193.9	195.7
82.5°	115.6	112.1	110.3	111.2	115.6
85°	56.0	51.6	51.6	52.5	52.5
87.5°	15.1	13.3	15.1	16.0	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)