

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: P974592

Luminaire Tested: FLR2-24-100HE-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974592
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: FLR2-24-100HE-L930-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

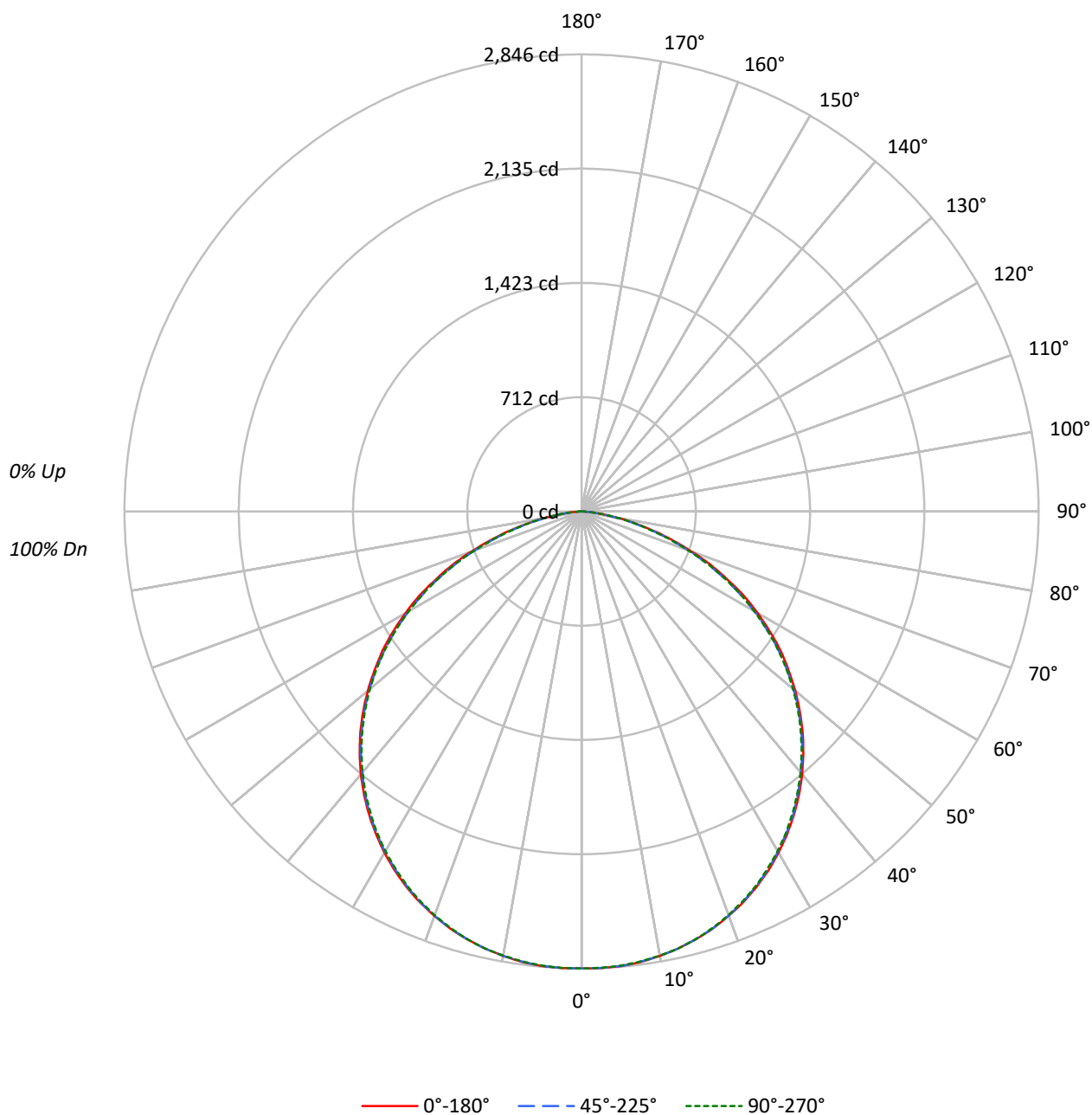
Lumens per Lamp: N/A
Luminaire Lumens: 8044.6 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.6
Input Voltage (V):
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°	3830	3830	3830
5°	3837	3837	3835
10°	3840	3839	3837
15°	3841	3840	3840
20°	3837	3836	3830
25°	3830	3822	3816
30°	3813	3802	3794
35°	3788	3778	3764
40°	3755	3731	3726
45°	3706	3685	3673
50°	3636	3608	3598
55°	3551	3500	3495
60°	3402	3342	3342
65°	3183	3109	3118
70°	2865	2776	2768
75°	2405	2310	2299
80°	1757	1670	1741
85°	993	914	931

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3706 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	3.4
10°-20°	778.3	9.7
20°-30°	1186.7	14.8
30°-40°	1437.8	17.9
40°-50°	1493.5	18.6
50°-60°	1336.0	16.6
60°-70°	973.7	12.1
70°-80°	482.2	6.0
80°-90°	86.2	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°	2235.2	27.8
0°-40°	3673.0	45.7
0°-60°	6502.5	80.8
0°-90°	8044.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8044.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2846	2846	2846	2846	2846	
5°	2841	2842	2841	2841	2839	270
15°	2758	2756	2756	2758	2756	779
25°	2580	2577	2575	2574	2571	1189
35°	2306	2303	2300	2296	2292	1442
45°	1948	1944	1936	1932	1930	1501
55°	1514	1502	1492	1492	1490	1349
65°	1000	992	976	980	979	991
75°	463	456	444	452	442	493
85°	64	59	59	60	60	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2846.3	2846.3	2846.3	2846.3	2846.3
2.5°	2846.3	2845.3	2845.3	2846.3	2844.3
5°	2841.2	2842.3	2841.2	2841.2	2839.2
7.5°	2830.0	2829.0	2828.0	2829.0	2825.9
10°	2810.6	2810.6	2809.6	2810.6	2808.5
12.5°	2787.1	2787.1	2787.1	2788.1	2787.1
15°	2757.5	2756.5	2756.5	2758.5	2756.5
17.5°	2722.8	2721.7	2721.7	2720.7	2718.7
20°	2679.9	2679.9	2678.8	2677.8	2674.8
22.5°	2633.9	2632.9	2629.8	2629.8	2625.7
25°	2579.8	2576.7	2574.7	2573.7	2570.6
27.5°	2520.5	2516.5	2513.4	2511.4	2508.3
30°	2454.2	2450.1	2447.0	2443.9	2441.9
32.5°	2382.7	2380.6	2375.5	2374.5	2370.4
35°	2306.1	2303.0	2299.9	2295.9	2291.8
37.5°	2224.4	2221.3	2214.2	2212.1	2209.1
40°	2137.6	2133.5	2124.3	2124.3	2121.2
42.5°	2044.6	2040.5	2034.4	2030.3	2028.3
45°	1947.6	1943.5	1936.4	1932.3	1930.2
47.5°	1844.5	1841.4	1833.2	1830.2	1827.1
50°	1737.2	1733.1	1723.9	1721.9	1718.8
52.5°	1624.9	1622.8	1610.6	1609.6	1606.5
55°	1513.6	1502.3	1492.1	1492.1	1490.1
57.5°	1391.0	1382.8	1369.6	1369.6	1367.5
60°	1264.4	1257.2	1241.9	1243.9	1241.9
62.5°	1140.8	1125.5	1111.2	1117.3	1112.2
65°	999.8	991.7	976.4	980.4	979.4
67.5°	871.2	855.8	841.5	849.7	845.6
70°	728.2	720.0	705.7	713.9	703.7
72.5°	593.4	586.2	571.9	581.1	570.9
75°	462.6	455.5	444.3	452.4	442.2
77.5°	339.1	334.0	323.7	331.9	334.0
80°	226.7	220.6	215.5	222.6	224.7
82.5°	132.8	128.7	126.6	127.7	132.8
85°	64.3	59.2	59.2	60.3	60.3
87.5°	17.4	15.3	17.4	18.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)