

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: P974790

Luminaire Tested: FLR2-24-100HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974790
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-L935-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

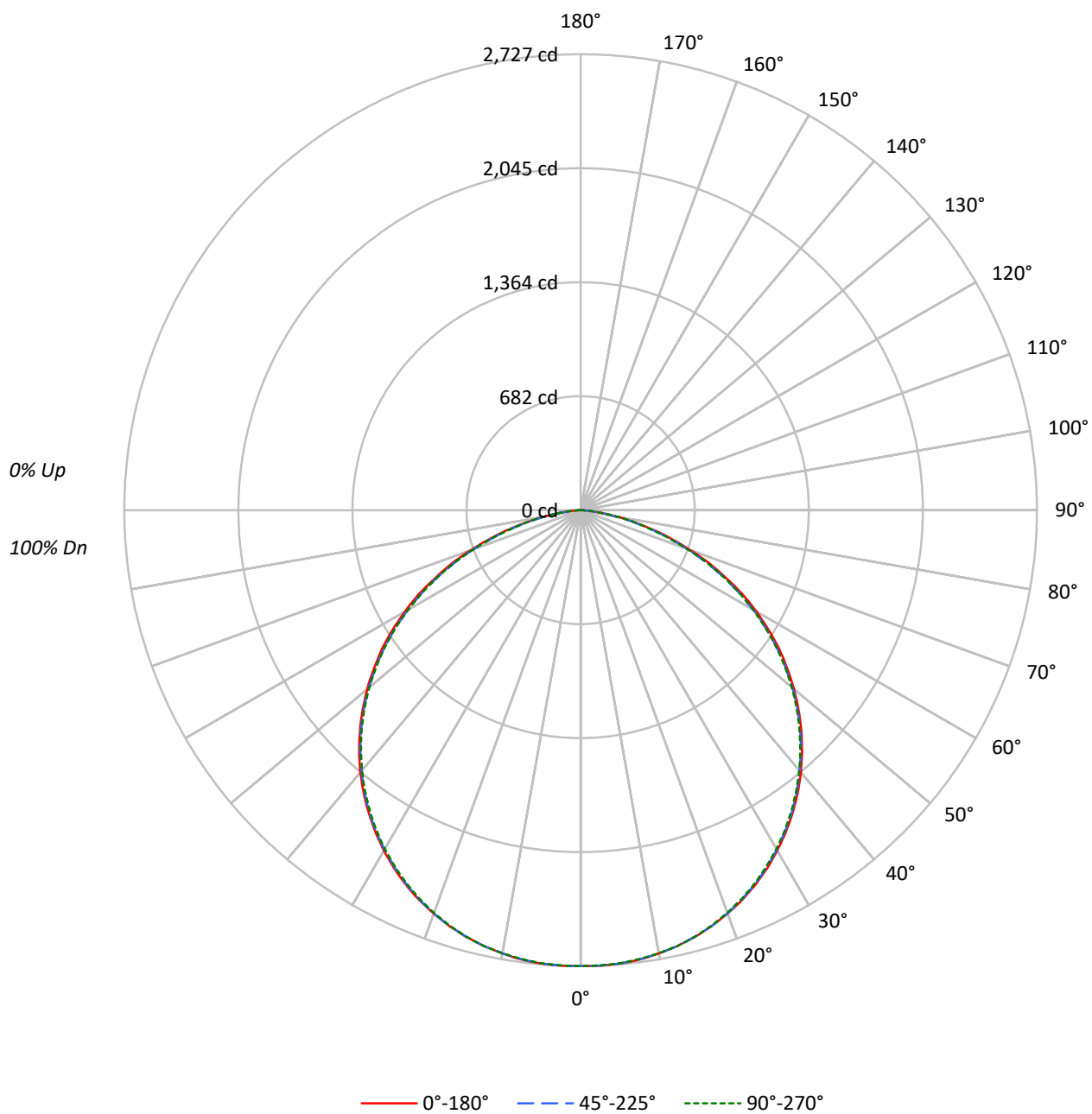
Lumens per Lamp: N/A
Luminaire Lumens: 7706.9 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3669	3669	3669
5°	3676	3676	3674
10°	3679	3677	3676
15°	3680	3679	3679
20°	3676	3675	3669
25°	3669	3662	3656
30°	3653	3642	3635
35°	3629	3619	3606
40°	3597	3574	3569
45°	3550	3530	3519
50°	3484	3457	3447
55°	3401	3353	3349
60°	3260	3202	3202
65°	3050	2978	2987
70°	2744	2660	2652
75°	2304	2213	2203
80°	1683	1599	1668
85°	951	875	891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3550 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.8	3.4
10°-20°	745.7	9.7
20°-30°	1136.9	14.8
30°-40°	1377.4	17.9
40°-50°	1430.8	18.6
50°-60°	1280.0	16.6
60°-70°	932.8	12.1
70°-80°	462.0	6.0
80°-90°	82.6	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°	2141.4	27.8
0°-40°	3518.8	45.7
0°-60°	6229.5	80.8
0°-90°	7706.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7706.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2727	2727	2727	2727	2727	
5°	2722	2723	2722	2722	2720	259
15°	2642	2641	2641	2643	2641	746
25°	2472	2469	2467	2466	2463	1139
35°	2209	2206	2203	2200	2196	1382
45°	1866	1862	1855	1851	1849	1438
55°	1450	1439	1430	1430	1428	1292
65°	958	950	935	939	938	950
75°	443	436	426	433	424	473
85°	62	57	57	58	58	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2726.9	2726.9	2726.9	2726.9	2726.9
2.5°	2726.9	2725.9	2725.9	2726.9	2724.9
5°	2722.0	2722.9	2722.0	2722.0	2720.0
7.5°	2711.2	2710.2	2709.2	2710.2	2707.3
10°	2692.6	2692.6	2691.6	2692.6	2690.7
12.5°	2670.1	2670.1	2670.1	2671.1	2670.1
15°	2641.7	2640.8	2640.8	2642.7	2640.8
17.5°	2608.5	2607.5	2607.5	2606.5	2604.6
20°	2567.4	2567.4	2566.4	2565.4	2562.5
22.5°	2523.3	2522.4	2519.4	2519.4	2515.5
25°	2471.5	2468.6	2466.6	2465.6	2462.7
27.5°	2414.7	2410.8	2407.9	2405.9	2403.0
30°	2351.1	2347.2	2344.3	2341.4	2339.4
32.5°	2282.7	2280.7	2275.8	2274.8	2270.9
35°	2209.3	2206.3	2203.4	2199.5	2195.6
37.5°	2131.0	2128.1	2121.2	2119.3	2116.3
40°	2047.8	2043.9	2035.1	2035.1	2032.2
42.5°	1958.8	1954.9	1949.0	1945.1	1943.1
45°	1865.8	1861.9	1855.1	1851.2	1849.2
47.5°	1767.0	1764.1	1756.3	1753.3	1750.4
50°	1664.3	1660.4	1651.6	1649.6	1646.7
52.5°	1556.7	1554.7	1543.0	1542.0	1539.1
55°	1450.0	1439.3	1429.5	1429.5	1427.5
57.5°	1332.6	1324.8	1312.1	1312.1	1310.1
60°	1211.3	1204.4	1189.8	1191.7	1189.8
62.5°	1092.9	1078.2	1064.5	1070.4	1065.5
65°	957.9	950.0	935.4	939.3	938.3
67.5°	834.6	819.9	806.2	814.0	810.1
70°	697.6	689.8	676.1	683.9	674.1
72.5°	568.5	561.6	547.9	556.7	546.9
75°	443.2	436.4	425.6	433.4	423.7
77.5°	324.8	319.9	310.2	318.0	319.9
80°	217.2	211.3	206.4	213.3	215.3
82.5°	127.2	123.3	121.3	122.3	127.2
85°	61.6	56.7	56.7	57.7	57.7
87.5°	16.6	14.7	16.6	17.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)