

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: P974625

Luminaire Tested: FLR2-24-100HE-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974625
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

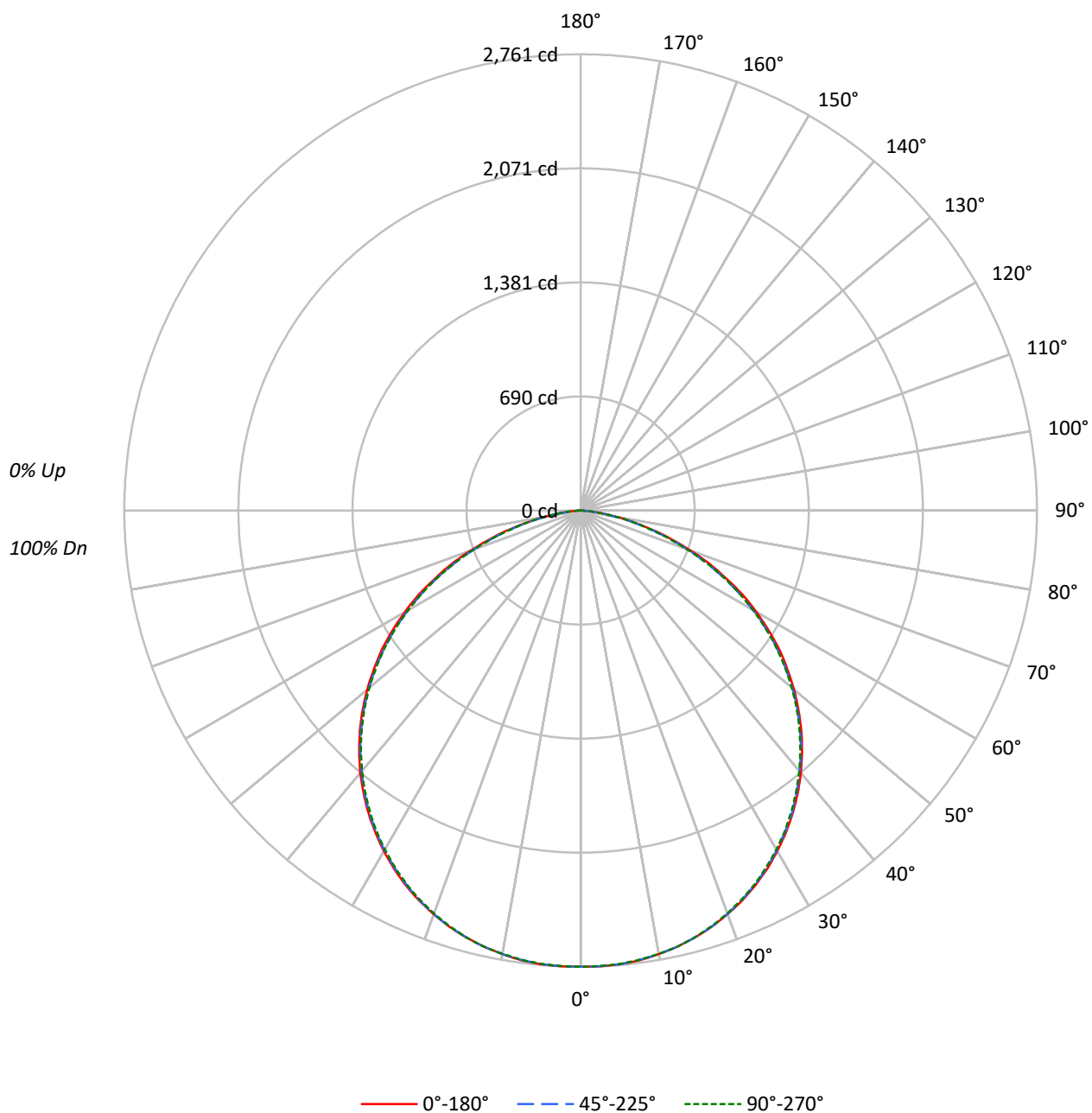
Lumens per Lamp: N/A
Luminaire Lumens: 7803.9 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		85
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		51
5	76	64	55	48	74	62	54	48	60	53	47		58	52	47		44
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		38
7	65	52	43	37	64	51	43	37	49	42	37		48	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		27
10	53	40	32	27	52	39	32	27	38	31	27		38	31	26		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3715	3715	3715
5°	3723	3723	3720
10°	3725	3724	3722
15°	3726	3725	3725
20°	3722	3721	3715
25°	3715	3708	3702
30°	3699	3688	3680
35°	3675	3665	3652
40°	3642	3619	3614
45°	3595	3574	3563
50°	3527	3500	3490
55°	3444	3396	3391
60°	3300	3242	3242
65°	3088	3015	3025
70°	2779	2693	2685
75°	2333	2241	2230
80°	1704	1619	1689
85°	963	888	903

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3595 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.1	3.4
10°-20°	755.0	9.7
20°-30°	1151.2	14.8
30°-40°	1394.7	17.9
40°-50°	1448.8	18.6
50°-60°	1296.1	16.6
60°-70°	944.6	12.1
70°-80°	467.8	6.0
80°-90°	83.6	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°	2168.3	27.8
0°-40°	3563.1	45.7
0°-60°	6307.9	80.8
0°-90°	7803.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7803.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2761	2761	2761	2761	2761	
5°	2756	2757	2756	2756	2754	262
15°	2675	2674	2674	2676	2674	755
25°	2503	2500	2498	2497	2494	1153
35°	2237	2234	2231	2227	2223	1399
45°	1889	1885	1878	1874	1872	1456
55°	1468	1457	1448	1448	1446	1308
65°	970	962	947	951	950	962
75°	449	442	431	439	429	479
85°	62	58	58	58	58	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2761.2	2761.2	2761.2	2761.2	2761.2
2.5°	2761.2	2760.2	2760.2	2761.2	2759.2
5°	2756.2	2757.2	2756.2	2756.2	2754.2
7.5°	2745.3	2744.3	2743.3	2744.3	2741.3
10°	2726.5	2726.5	2725.5	2726.5	2724.5
12.5°	2703.7	2703.7	2703.7	2704.7	2703.7
15°	2675.0	2674.0	2674.0	2676.0	2674.0
17.5°	2641.3	2640.3	2640.3	2639.3	2637.3
20°	2599.7	2599.7	2598.7	2597.7	2594.7
22.5°	2555.1	2554.1	2551.1	2551.1	2547.2
25°	2502.6	2499.6	2497.6	2496.6	2493.7
27.5°	2445.1	2441.2	2438.2	2436.2	2433.2
30°	2380.7	2376.8	2373.8	2370.8	2368.8
32.5°	2311.4	2309.4	2304.4	2303.4	2299.5
35°	2237.1	2234.1	2231.1	2227.2	2223.2
37.5°	2157.8	2154.8	2147.9	2145.9	2142.9
40°	2073.6	2069.6	2060.7	2060.7	2057.7
42.5°	1983.4	1979.5	1973.5	1969.6	1967.6
45°	1889.3	1885.4	1878.4	1874.5	1872.5
47.5°	1789.3	1786.3	1778.4	1775.4	1772.4
50°	1685.2	1681.3	1672.3	1670.4	1667.4
52.5°	1576.2	1574.3	1562.4	1561.4	1558.4
55°	1468.3	1457.4	1447.5	1447.5	1445.5
57.5°	1349.4	1341.4	1328.6	1328.6	1326.6
60°	1226.5	1219.6	1204.7	1206.7	1204.7
62.5°	1106.6	1091.8	1077.9	1083.9	1078.9
65°	969.9	962.0	947.1	951.1	950.1
67.5°	845.1	830.2	816.4	824.3	820.3
70°	706.4	698.5	684.6	692.5	682.6
72.5°	575.6	568.7	554.8	563.7	553.8
75°	448.8	441.9	431.0	438.9	429.0
77.5°	328.9	324.0	314.1	322.0	324.0
80°	219.9	214.0	209.0	216.0	218.0
82.5°	128.8	124.8	122.9	123.8	128.8
85°	62.4	57.5	57.5	58.5	58.5
87.5°	16.8	14.9	16.8	17.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)