

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: P975098

Luminaire Tested: FLR2-24-100HE-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975098
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-L950-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

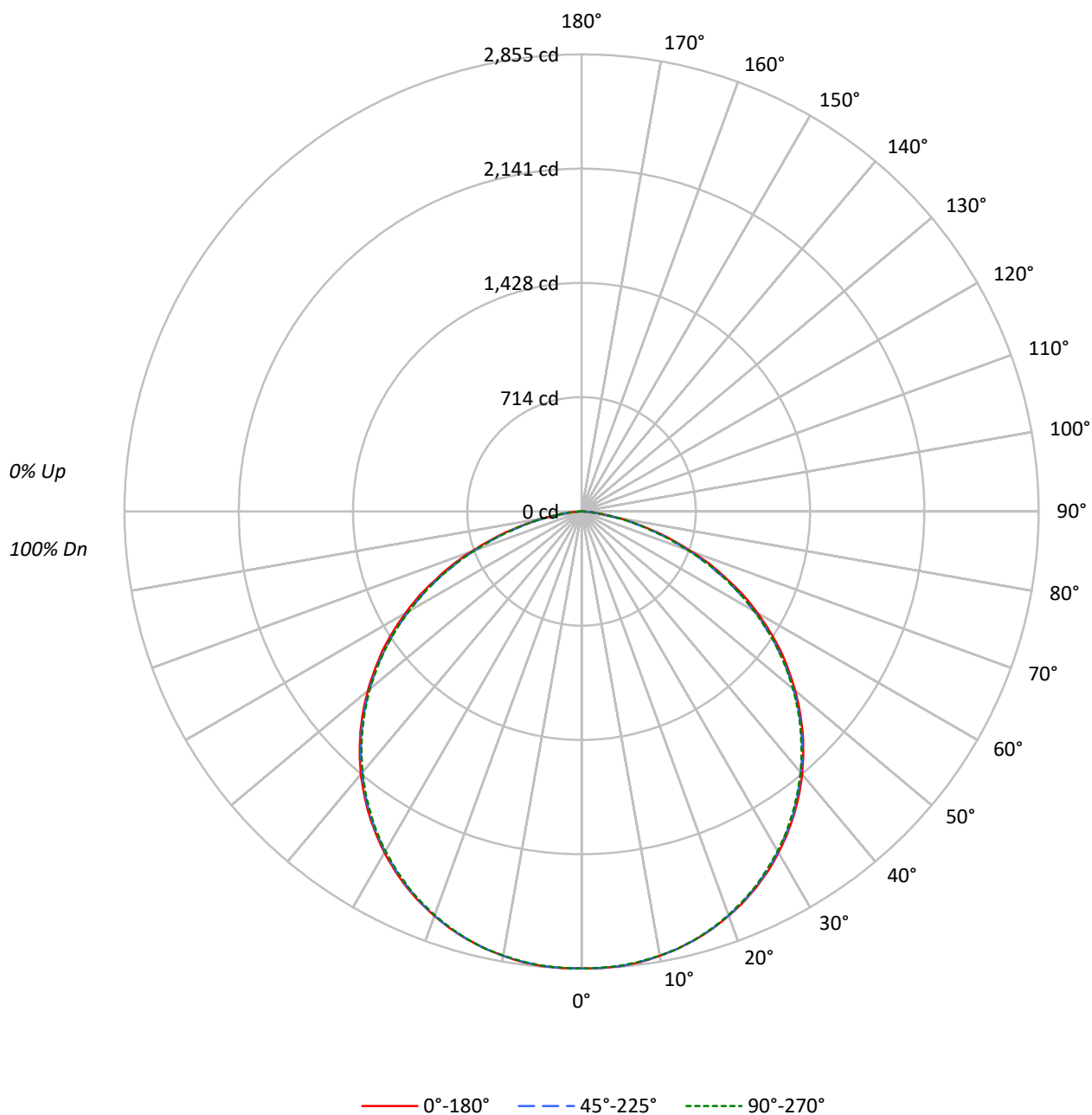
Lumens per Lamp: N/A
Luminaire Lumens: 8069.6 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3842	3842	3842
5°	3849	3849	3847
10°	3852	3850	3849
15°	3853	3852	3852
20°	3849	3848	3842
25°	3842	3834	3828
30°	3825	3814	3806
35°	3800	3790	3776
40°	3766	3743	3737
45°	3718	3696	3684
50°	3648	3620	3609
55°	3562	3511	3506
60°	3413	3352	3352
65°	3193	3118	3128
70°	2873	2785	2777
75°	2413	2316	2306
80°	1762	1675	1746
85°	996	917	932

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3718 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.0	3.4
10°-20°	780.8	9.7
20°-30°	1190.4	14.8
30°-40°	1442.2	17.9
40°-50°	1498.1	18.6
50°-60°	1340.2	16.6
60°-70°	976.8	12.1
70°-80°	483.7	6.0
80°-90°	86.5	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°	2242.2	27.8
0°-40°	3684.4	45.7
0°-60°	6522.7	80.8
0°-90°	8069.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8069.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2855	2855	2855	2855	2855	
5°	2850	2851	2850	2850	2848	271
15°	2766	2765	2765	2767	2765	781
25°	2588	2585	2583	2582	2579	1193
35°	2313	2310	2307	2303	2299	1447
45°	1954	1950	1942	1938	1936	1506
55°	1518	1507	1497	1497	1495	1353
65°	1003	995	979	984	982	994
75°	464	457	446	454	444	495
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°	2855.2	2855.2	2855.2	2855.2	2855.2
2.5°	2855.2	2854.2	2854.2	2855.2	2853.1
5°	2850.1	2851.1	2850.1	2850.1	2848.0
7.5°	2838.8	2837.8	2836.7	2837.8	2834.7
10°	2819.3	2819.3	2818.3	2819.3	2817.3
12.5°	2795.8	2795.8	2795.8	2796.8	2795.8
15°	2766.1	2765.0	2765.0	2767.1	2765.0
17.5°	2731.2	2730.2	2730.2	2729.2	2727.1
20°	2688.2	2688.2	2687.2	2686.1	2683.1
22.5°	2642.1	2641.1	2638.0	2638.0	2633.9
25°	2587.8	2584.7	2582.7	2581.7	2578.6
27.5°	2528.4	2524.3	2521.2	2519.2	2516.1
30°	2461.8	2457.7	2454.6	2451.5	2449.5
32.5°	2390.1	2388.0	2382.9	2381.9	2377.8
35°	2313.2	2310.2	2307.1	2303.0	2298.9
37.5°	2231.3	2228.2	2221.0	2219.0	2215.9
40°	2144.2	2140.1	2130.9	2130.9	2127.8
42.5°	2051.0	2046.9	2040.7	2036.6	2034.6
45°	1953.7	1949.6	1942.4	1938.3	1936.2
47.5°	1850.2	1847.1	1838.9	1835.8	1832.8
50°	1742.6	1738.5	1729.3	1727.2	1724.2
52.5°	1629.9	1627.9	1615.6	1614.6	1611.5
55°	1518.3	1507.0	1496.7	1496.7	1494.7
57.5°	1395.3	1387.1	1373.8	1373.8	1371.8
60°	1268.3	1261.1	1245.7	1247.8	1245.7
62.5°	1144.3	1129.0	1114.6	1120.8	1115.6
65°	1003.0	994.8	979.4	983.5	982.5
67.5°	873.9	858.5	844.2	852.4	848.3
70°	730.4	722.2	707.9	716.1	705.9
72.5°	595.2	588.0	573.7	582.9	572.7
75°	464.1	456.9	445.6	453.8	443.6
77.5°	340.1	335.0	324.8	333.0	335.0
80°	227.4	221.3	216.2	223.3	225.4
82.5°	133.2	129.1	127.0	128.1	133.2
85°	64.5	59.4	59.4	60.4	60.4
87.5°	17.4	15.4	17.4	18.4	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)