

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: P975041

Luminaire Tested: FLR2-24-80HE-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975041
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: FLR2-24-80HE-L850-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

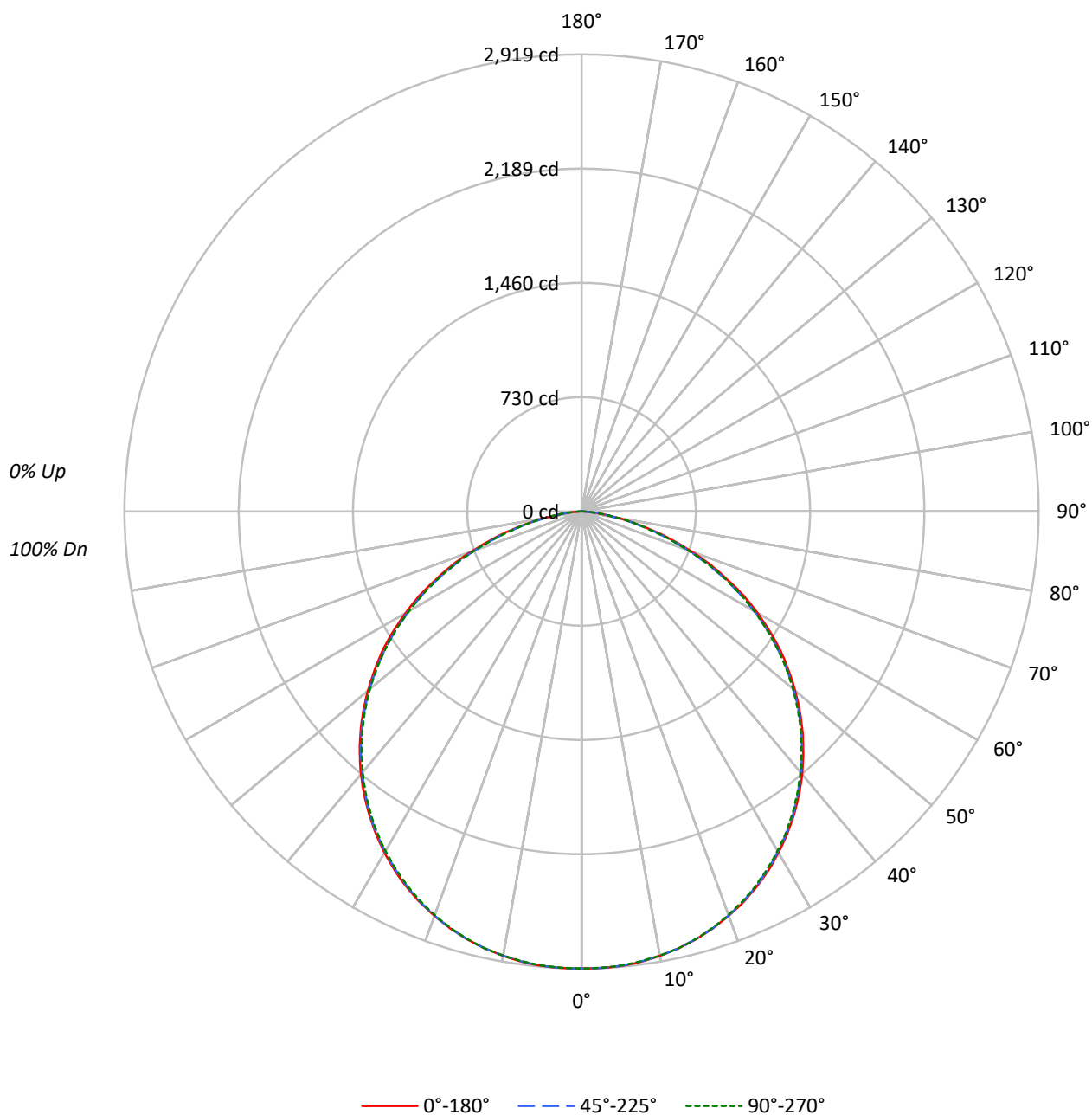
Lumens per Lamp: N/A
Luminaire Lumens: 8249.1 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
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°	3927	3927	3927
5°	3935	3935	3932
10°	3938	3936	3935
15°	3939	3937	3937
20°	3935	3933	3927
25°	3927	3919	3913
30°	3910	3898	3890
35°	3884	3874	3860
40°	3850	3826	3820
45°	3800	3778	3766
50°	3729	3700	3689
55°	3641	3589	3584
60°	3489	3427	3427
65°	3264	3188	3197
70°	2937	2847	2839
75°	2466	2368	2358
80°	1801	1712	1785
85°	1019	937	954

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3800 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.0	3.4
10°-20°	798.1	9.7
20°-30°	1216.9	14.8
30°-40°	1474.3	17.9
40°-50°	1531.4	18.6
50°-60°	1370.0	16.6
60°-70°	998.5	12.1
70°-80°	494.5	6.0
80°-90°	88.4	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°	2292.0	27.8
0°-40°	3766.4	45.7
0°-60°	6667.8	80.8
0°-90°	8249.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8249.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2919	2919	2919	2919	2919	
5°	2914	2914	2914	2914	2911	277
15°	2828	2826	2826	2829	2826	798
25°	2645	2642	2640	2639	2636	1219
35°	2365	2362	2358	2354	2350	1479
45°	1997	1993	1986	1981	1979	1539
55°	1552	1540	1530	1530	1528	1383
65°	1025	1017	1001	1005	1004	1016
75°	474	467	456	464	454	506
85°	66	61	61	62	62	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2918.7	2918.7	2918.7	2918.7	2918.7
2.5°	2918.7	2917.7	2917.7	2918.7	2916.6
5°	2913.5	2914.5	2913.5	2913.5	2911.4
7.5°	2901.9	2900.9	2899.8	2900.9	2897.8
10°	2882.0	2882.0	2881.0	2882.0	2879.9
12.5°	2858.0	2858.0	2858.0	2859.0	2858.0
15°	2827.6	2826.5	2826.5	2828.6	2826.5
17.5°	2792.0	2790.9	2790.9	2789.9	2787.8
20°	2748.0	2748.0	2746.9	2745.9	2742.8
22.5°	2700.9	2699.8	2696.7	2696.7	2692.5
25°	2645.4	2642.2	2640.1	2639.1	2635.9
27.5°	2584.6	2580.4	2577.3	2575.2	2572.1
30°	2516.6	2512.4	2509.2	2506.1	2504.0
32.5°	2443.2	2441.1	2435.9	2434.9	2430.7
35°	2364.7	2361.6	2358.4	2354.2	2350.0
37.5°	2280.9	2277.8	2270.4	2268.4	2265.2
40°	2191.9	2187.7	2178.3	2178.3	2175.1
42.5°	2096.6	2092.4	2086.1	2081.9	2079.8
45°	1997.1	1992.9	1985.6	1981.4	1979.3
47.5°	1891.3	1888.2	1879.8	1876.7	1873.5
50°	1781.4	1777.2	1767.8	1765.7	1762.5
52.5°	1666.2	1664.1	1651.5	1650.5	1647.3
55°	1552.0	1540.5	1530.0	1530.0	1527.9
57.5°	1426.4	1418.0	1404.4	1404.4	1402.3
60°	1296.5	1289.2	1273.5	1275.6	1273.5
62.5°	1169.8	1154.1	1139.4	1145.7	1140.5
65°	1025.3	1016.9	1001.2	1005.4	1004.3
67.5°	893.3	877.6	862.9	871.3	867.1
70°	746.7	738.3	723.7	732.0	721.6
72.5°	608.5	601.1	586.5	595.9	585.4
75°	474.4	467.1	455.6	463.9	453.5
77.5°	347.7	342.5	332.0	340.4	342.5
80°	232.5	226.2	221.0	228.3	230.4
82.5°	136.1	132.0	129.9	130.9	136.1
85°	66.0	60.7	60.7	61.8	61.8
87.5°	17.8	15.7	17.8	18.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)