

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: P975065

Luminaire Tested: FLR2-24-100HE-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975065
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

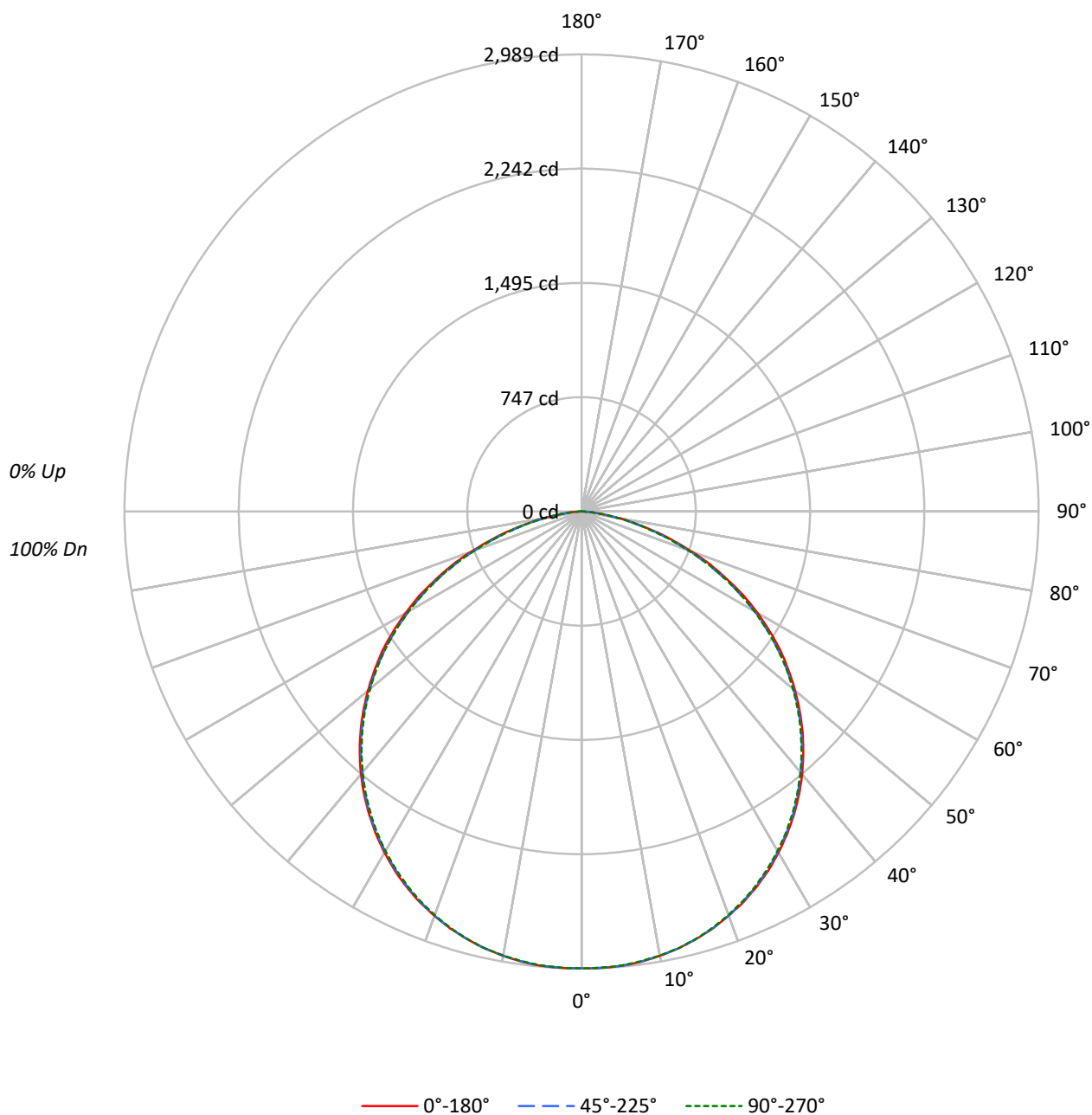
Lumens per Lamp: N/A
Luminaire Lumens: 8446.6 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4021	4021	4021
5°	4029	4029	4026
10°	4032	4030	4029
15°	4033	4031	4031
20°	4029	4027	4021
25°	4021	4013	4007
30°	4003	3992	3983
35°	3977	3967	3952
40°	3942	3918	3912
45°	3891	3869	3856
50°	3818	3789	3778
55°	3728	3675	3670
60°	3572	3509	3509
65°	3342	3264	3274
70°	3008	2915	2906
75°	2525	2425	2414
80°	1845	1753	1828
85°	1044	960	977

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3891 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.7	3.4
10°-20°	817.2	9.7
20°-30°	1246.0	14.8
30°-40°	1509.6	17.9
40°-50°	1568.1	18.6
50°-60°	1402.8	16.6
60°-70°	1022.4	12.1
70°-80°	506.3	6.0
80°-90°	90.5	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°	2346.9	27.8
0°-40°	3856.5	45.7
0°-60°	6827.4	80.8
0°-90°	8446.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8446.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2989	2989	2989	2989	2989	
5°	2983	2984	2983	2983	2981	284
15°	2895	2894	2894	2896	2894	817
25°	2709	2706	2703	2702	2699	1248
35°	2421	2418	2415	2411	2406	1514
45°	2045	2041	2033	2029	2027	1576
55°	1589	1577	1567	1567	1564	1416
65°	1050	1041	1025	1029	1028	1041
75°	486	478	466	475	464	518
85°	68	62	62	63	63	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2988.6	2988.6	2988.6	2988.6	2988.6
2.5°	2988.6	2987.5	2987.5	2988.6	2986.4
5°	2983.2	2984.3	2983.2	2983.2	2981.1
7.5°	2971.4	2970.3	2969.3	2970.3	2967.1
10°	2951.0	2951.0	2950.0	2951.0	2948.9
12.5°	2926.4	2926.4	2926.4	2927.5	2926.4
15°	2895.3	2894.2	2894.2	2896.4	2894.2
17.5°	2858.8	2857.8	2857.8	2856.7	2854.5
20°	2813.8	2813.8	2812.7	2811.6	2808.4
22.5°	2765.5	2764.5	2761.2	2761.2	2757.0
25°	2708.7	2705.5	2703.3	2702.3	2699.0
27.5°	2646.5	2642.2	2639.0	2636.9	2633.6
30°	2576.8	2572.5	2569.3	2566.1	2563.9
32.5°	2501.7	2499.6	2494.2	2493.2	2488.9
35°	2421.3	2418.1	2414.9	2410.6	2406.3
37.5°	2335.5	2332.3	2324.8	2322.7	2319.4
40°	2244.4	2240.1	2230.4	2230.4	2227.2
42.5°	2146.8	2142.5	2136.1	2131.8	2129.6
45°	2044.9	2040.6	2033.1	2028.8	2026.7
47.5°	1936.6	1933.4	1924.8	1921.6	1918.4
50°	1824.0	1819.7	1810.1	1807.9	1804.7
52.5°	1706.1	1703.9	1691.1	1690.0	1686.8
55°	1589.2	1577.4	1566.7	1566.7	1564.5
57.5°	1460.5	1451.9	1438.0	1438.0	1435.8
60°	1327.5	1320.0	1303.9	1306.1	1303.9
62.5°	1197.8	1181.7	1166.7	1173.1	1167.8
65°	1049.8	1041.2	1025.1	1029.4	1028.4
67.5°	914.7	898.6	883.6	892.2	887.9
70°	764.6	756.0	741.0	749.6	738.8
72.5°	623.0	615.5	600.5	610.2	599.4
75°	485.8	478.3	466.5	475.0	464.3
77.5°	356.0	350.7	339.9	348.5	350.7
80°	238.1	231.6	226.3	233.8	235.9
82.5°	139.4	135.1	133.0	134.0	139.4
85°	67.6	62.2	62.2	63.3	63.3
87.5°	18.2	16.1	18.2	19.3	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)