

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: P975054

Luminaire Tested: FLR2-24-100HE-L950-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975054
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

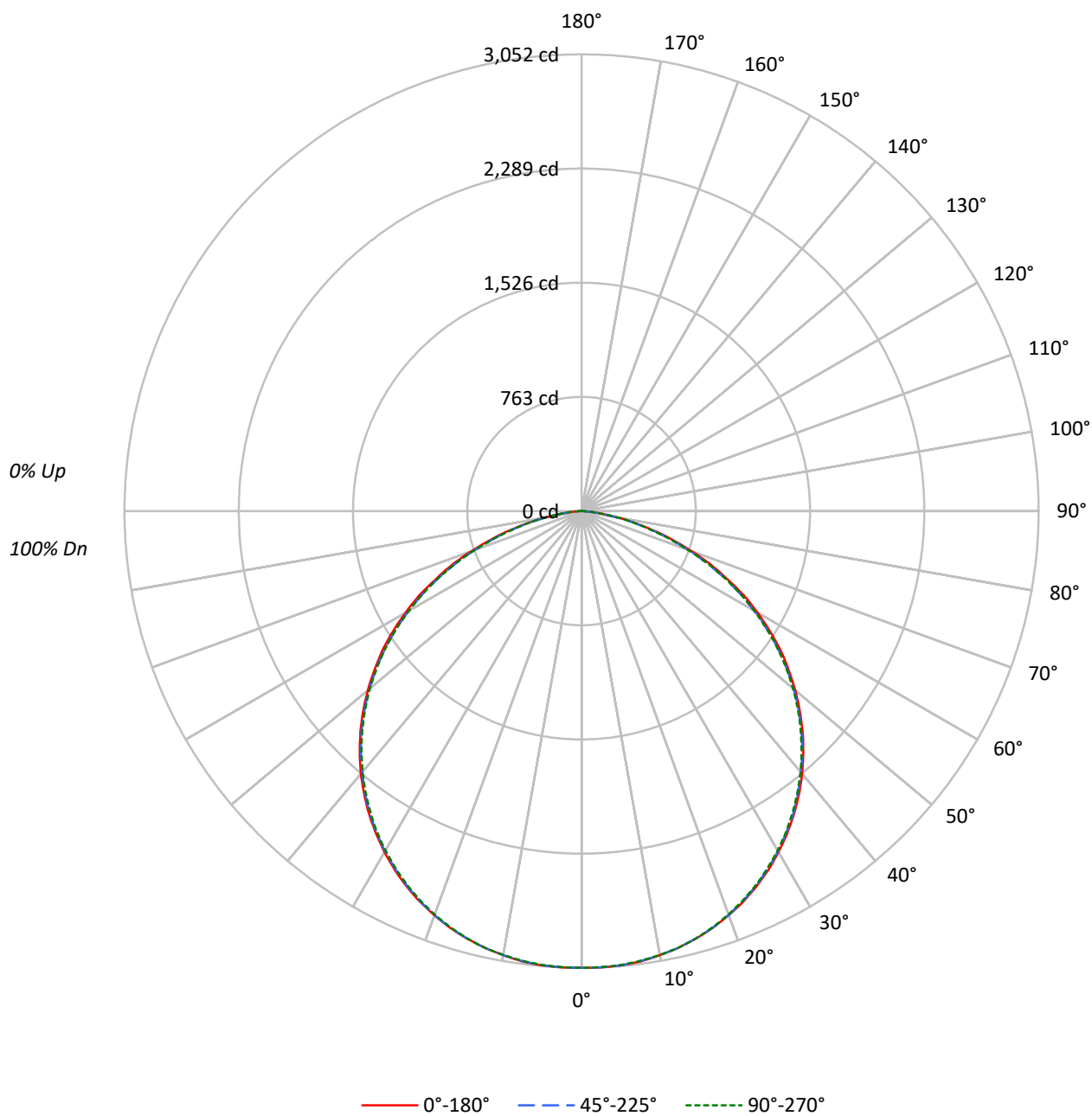
Lumens per Lamp: N/A
Luminaire Lumens: 8626.2 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4107	4107	4107
5°	4115	4115	4112
10°	4118	4116	4115
15°	4119	4117	4117
20°	4115	4113	4107
25°	4107	4099	4092
30°	4089	4077	4068
35°	4062	4051	4036
40°	4026	4001	3995
45°	3974	3951	3938
50°	3899	3870	3858
55°	3807	3753	3748
60°	3648	3584	3584
65°	3413	3333	3344
70°	3072	2977	2968
75°	2579	2477	2465
80°	1884	1791	1867
85°	1065	980	997

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3974 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.7	3.4
10°-20°	834.6	9.7
20°-30°	1272.5	14.8
30°-40°	1541.7	17.9
40°-50°	1601.4	18.6
50°-60°	1432.6	16.6
60°-70°	1044.1	12.1
70°-80°	517.1	6.0
80°-90°	92.4	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°	2396.8	27.8
0°-40°	3938.5	45.7
0°-60°	6972.6	80.8
0°-90°	8626.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8626.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3052	3052	3052	3052	3052	
5°	3047	3048	3047	3047	3044	290
15°	2957	2956	2956	2958	2956	835
25°	2766	2763	2761	2760	2756	1275
35°	2473	2470	2466	2462	2457	1547
45°	2088	2084	2076	2072	2070	1609
55°	1623	1611	1600	1600	1598	1446
65°	1072	1063	1047	1051	1050	1063
75°	496	488	476	485	474	529
85°	69	64	64	65	65	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3052.1	3052.1	3052.1	3052.1	3052.1
2.5°	3052.1	3051.0	3051.0	3052.1	3049.9
5°	3046.6	3047.7	3046.6	3046.6	3044.4
7.5°	3034.6	3033.5	3032.4	3033.5	3030.2
10°	3013.8	3013.8	3012.7	3013.8	3011.6
12.5°	2988.6	2988.6	2988.6	2989.7	2988.6
15°	2956.8	2955.7	2955.7	2957.9	2955.7
17.5°	2919.6	2918.5	2918.5	2917.4	2915.2
20°	2873.6	2873.6	2872.5	2871.4	2868.1
22.5°	2824.3	2823.2	2819.9	2819.9	2815.5
25°	2766.3	2763.0	2760.8	2759.7	2756.4
27.5°	2702.8	2698.4	2695.1	2692.9	2689.6
30°	2631.6	2627.2	2623.9	2620.6	2618.4
32.5°	2554.9	2552.7	2547.2	2546.2	2541.8
35°	2472.8	2469.5	2466.2	2461.8	2457.4
37.5°	2385.2	2381.9	2374.2	2372.0	2368.7
40°	2292.1	2287.7	2277.8	2277.8	2274.6
42.5°	2192.4	2188.0	2181.5	2177.1	2174.9
45°	2088.4	2084.0	2076.3	2072.0	2069.8
47.5°	1977.8	1974.5	1965.7	1962.5	1959.2
50°	1862.8	1858.4	1848.6	1846.4	1843.1
52.5°	1742.3	1740.1	1727.0	1725.9	1722.6
55°	1623.0	1610.9	1600.0	1600.0	1597.8
57.5°	1491.6	1482.8	1468.6	1468.6	1466.4
60°	1355.8	1348.1	1331.7	1333.9	1331.7
62.5°	1223.2	1206.8	1191.5	1198.1	1192.6
65°	1072.1	1063.4	1046.9	1051.3	1050.2
67.5°	934.1	917.7	902.4	911.1	906.8
70°	780.8	772.1	756.7	765.5	754.5
72.5°	636.3	628.6	613.3	623.1	612.2
75°	496.1	488.4	476.4	485.1	474.2
77.5°	363.6	358.1	347.2	355.9	358.1
80°	243.1	236.5	231.1	238.7	240.9
82.5°	142.4	138.0	135.8	136.9	142.4
85°	69.0	63.5	63.5	64.6	64.6
87.5°	18.6	16.4	18.6	19.7	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)