

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: P974779

Luminaire Tested: FLR2-24-100HE-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974779
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-L935-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

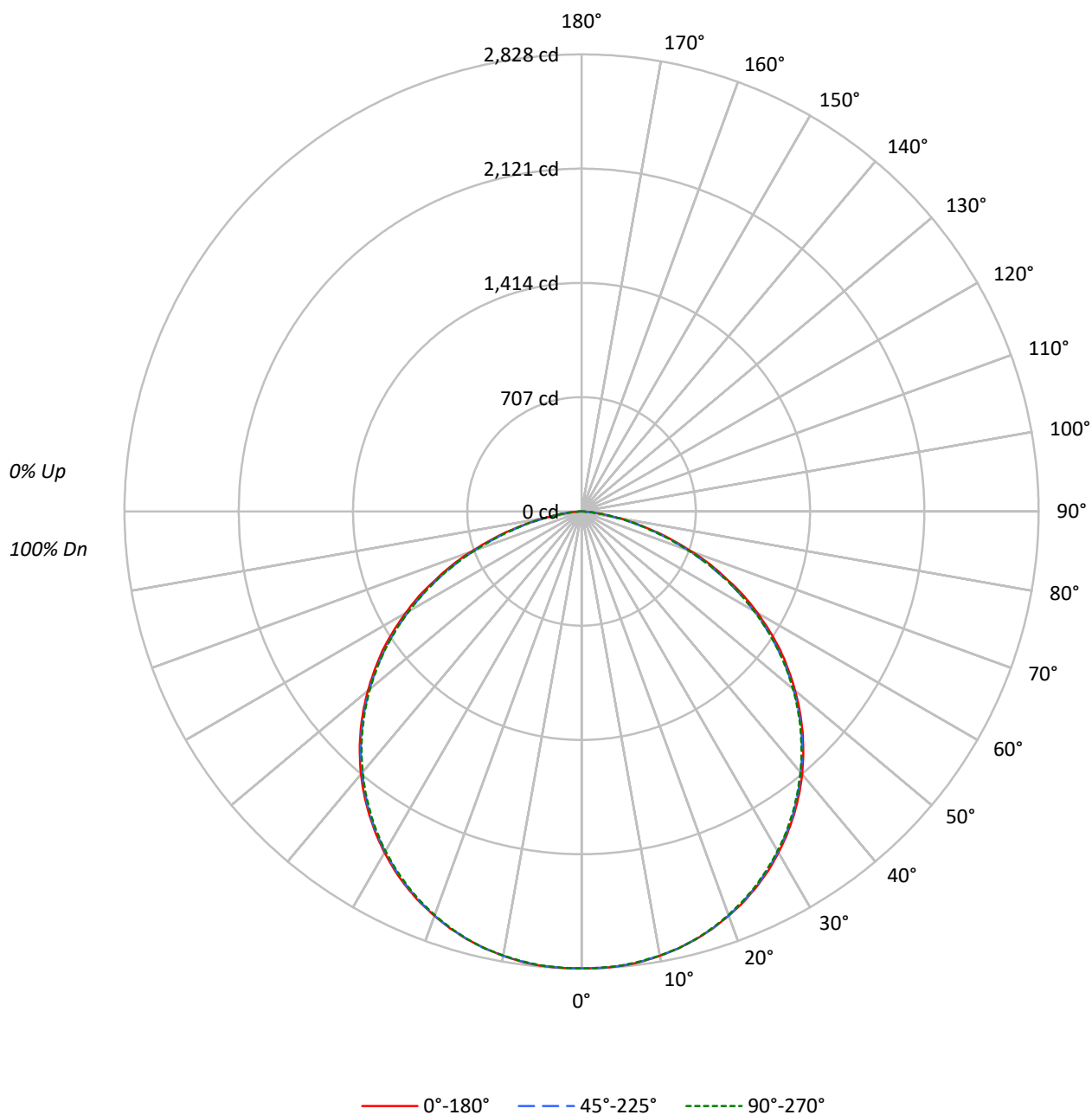
Lumens per Lamp: N/A
Luminaire Lumens: 7991.9 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3805	3805	3805
5°	3812	3812	3810
10°	3815	3813	3812
15°	3816	3814	3814
20°	3812	3811	3805
25°	3805	3797	3791
30°	3788	3777	3769
35°	3763	3753	3740
40°	3730	3707	3701
45°	3682	3660	3649
50°	3612	3585	3574
55°	3527	3477	3472
60°	3380	3320	3320
65°	3162	3088	3098
70°	2846	2758	2750
75°	2389	2295	2284
80°	1745	1659	1729
85°	986	908	925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3682 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.4	3.4
10°-20°	773.2	9.7
20°-30°	1178.9	14.8
30°-40°	1428.4	17.9
40°-50°	1483.7	18.6
50°-60°	1327.3	16.6
60°-70°	967.3	12.1
70°-80°	479.1	6.0
80°-90°	85.6	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°	2220.6	27.8
0°-40°	3648.9	45.7
0°-60°	6459.9	80.8
0°-90°	7991.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7991.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2828	2828	2828	2828	2828	
5°	2823	2824	2823	2823	2821	268
15°	2739	2738	2738	2740	2738	773
25°	2563	2560	2558	2557	2554	1181
35°	2291	2288	2285	2281	2277	1433
45°	1935	1931	1924	1920	1918	1491
55°	1504	1492	1482	1482	1480	1340
65°	993	985	970	974	973	985
75°	460	452	441	450	439	490
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°	2827.7	2827.7	2827.7	2827.7	2827.7
2.5°	2827.7	2826.7	2826.7	2827.7	2825.7
5°	2822.6	2823.6	2822.6	2822.6	2820.6
7.5°	2811.5	2810.4	2809.4	2810.4	2807.4
10°	2792.2	2792.2	2791.2	2792.2	2790.2
12.5°	2768.8	2768.8	2768.8	2769.9	2768.8
15°	2739.4	2738.4	2738.4	2740.4	2738.4
17.5°	2704.9	2703.9	2703.9	2702.9	2700.9
20°	2662.3	2662.3	2661.3	2660.3	2657.2
22.5°	2616.7	2615.6	2612.6	2612.6	2608.5
25°	2562.9	2559.8	2557.8	2556.8	2553.8
27.5°	2504.0	2500.0	2496.9	2494.9	2491.9
30°	2438.1	2434.0	2431.0	2427.9	2425.9
32.5°	2367.1	2365.0	2360.0	2358.9	2354.9
35°	2291.0	2287.9	2284.9	2280.8	2276.8
37.5°	2209.8	2206.8	2199.7	2197.6	2194.6
40°	2123.6	2119.5	2110.4	2110.4	2107.3
42.5°	2031.2	2027.2	2021.1	2017.0	2015.0
45°	1934.8	1930.8	1923.7	1919.6	1917.6
47.5°	1832.4	1829.3	1821.2	1818.2	1815.1
50°	1725.8	1721.8	1712.6	1710.6	1707.6
52.5°	1614.2	1612.2	1600.0	1599.0	1596.0
55°	1503.6	1492.5	1482.3	1482.3	1480.3
57.5°	1381.9	1373.8	1360.6	1360.6	1358.6
60°	1256.1	1249.0	1233.8	1235.8	1233.8
62.5°	1133.3	1118.1	1103.9	1110.0	1104.9
65°	993.3	985.2	970.0	974.0	973.0
67.5°	865.5	850.2	836.0	844.1	840.1
70°	723.4	715.3	701.1	709.2	699.1
72.5°	589.5	582.4	568.2	577.3	567.2
75°	459.6	452.5	441.4	449.5	439.3
77.5°	336.8	331.8	321.6	329.7	331.8
80°	225.2	219.2	214.1	221.2	223.2
82.5°	131.9	127.8	125.8	126.8	131.9
85°	63.9	58.8	58.8	59.9	59.9
87.5°	17.2	15.2	17.2	18.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)