

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: P974988

Luminaire Tested: FLR2-24-100HE-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974988
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-L850-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

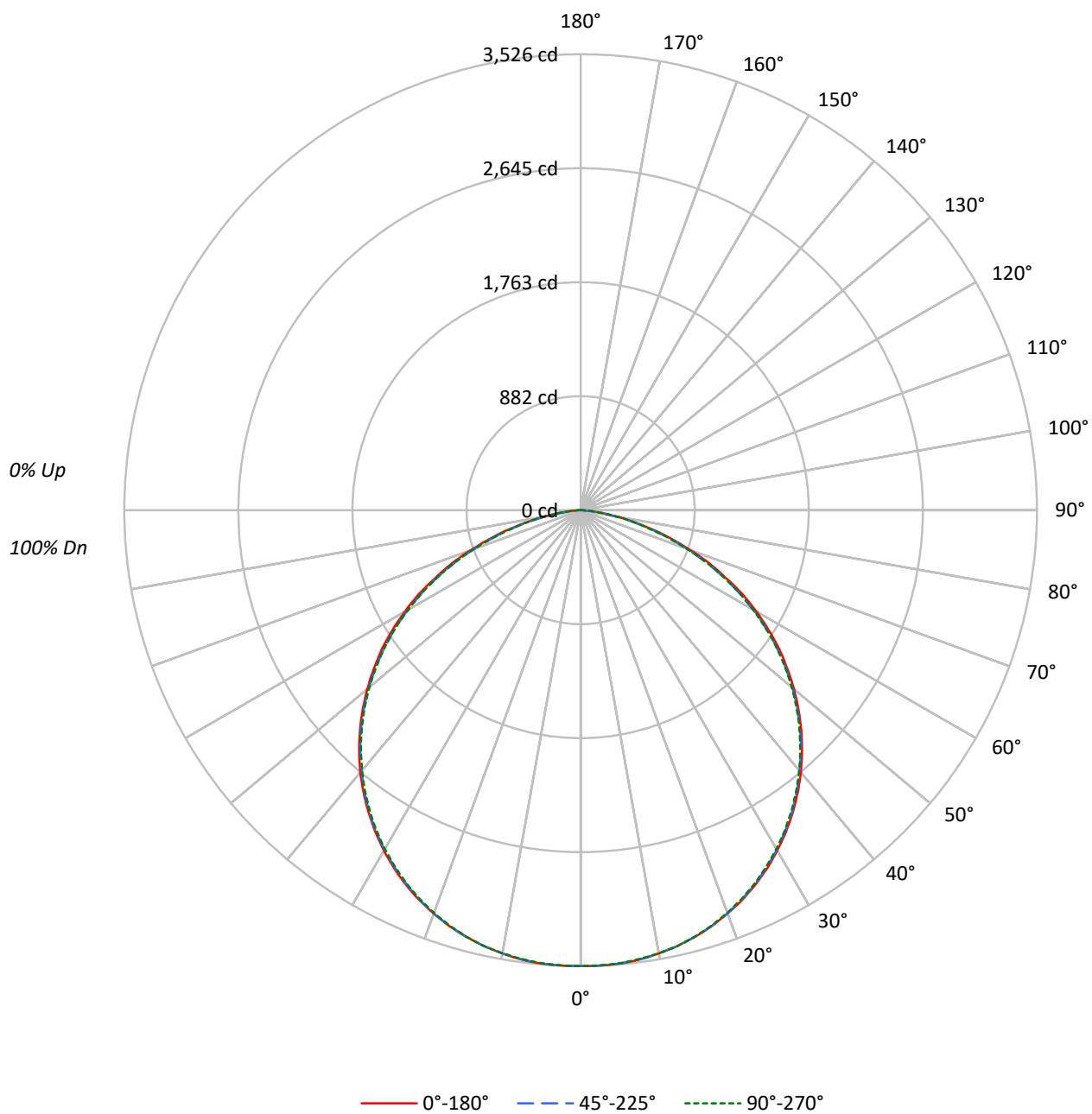
Lumens per Lamp: N/A
Luminaire Lumens: 9965.1 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4744	4744	4744
5°	4754	4754	4750
10°	4757	4755	4753
15°	4758	4756	4756
20°	4753	4751	4744
25°	4744	4735	4727
30°	4723	4709	4700
35°	4692	4680	4663
40°	4651	4622	4615
45°	4591	4564	4550
50°	4504	4470	4457
55°	4398	4336	4330
60°	4215	4140	4140
65°	3943	3850	3862
70°	3548	3439	3429
75°	2979	2861	2848
80°	2177	2068	2156
85°	1230	1133	1152

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4591 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.7	3.4
10°-20°	964.1	9.7
20°-30°	1470.0	14.8
30°-40°	1781.0	17.9
40°-50°	1850.0	18.6
50°-60°	1655.0	16.6
60°-70°	1206.2	12.1
70°-80°	597.3	6.0
80°-90°	106.8	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°	2768.8	27.8
0°-40°	4549.8	45.7
0°-60°	8054.8	80.8
0°-90°	9965.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9965.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3526	3526	3526	3526	3526	
5°	3520	3521	3520	3520	3517	335
15°	3416	3414	3414	3417	3414	964
25°	3196	3192	3189	3188	3184	1473
35°	2857	2853	2849	2844	2839	1787
45°	2413	2408	2399	2394	2391	1859
55°	1875	1861	1848	1848	1846	1670
65°	1238	1228	1209	1214	1213	1228
75°	573	564	550	560	548	611
85°	80	73	73	75	75	110
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3525.8	3525.8	3525.8	3525.8	3525.8
2.5°	3525.8	3524.6	3524.6	3525.8	3523.3
5°	3519.5	3520.8	3519.5	3519.5	3517.0
7.5°	3505.6	3504.3	3503.1	3504.3	3500.5
10°	3481.6	3481.6	3480.3	3481.6	3479.0
12.5°	3452.5	3452.5	3452.5	3453.7	3452.5
15°	3415.8	3414.5	3414.5	3417.0	3414.5
17.5°	3372.8	3371.5	3371.5	3370.2	3367.7
20°	3319.6	3319.6	3318.4	3317.1	3313.3
22.5°	3262.7	3261.4	3257.6	3257.6	3252.6
25°	3195.7	3191.9	3189.3	3188.1	3184.3
27.5°	3122.3	3117.2	3113.4	3110.9	3107.1
30°	3040.0	3035.0	3031.2	3027.4	3024.9
32.5°	2951.5	2949.0	2942.6	2941.4	2936.3
35°	2856.6	2852.8	2849.0	2844.0	2838.9
37.5°	2755.4	2751.6	2742.7	2740.2	2736.4
40°	2647.9	2642.8	2631.4	2631.4	2627.6
42.5°	2532.7	2527.7	2520.1	2515.0	2512.5
45°	2412.6	2407.5	2398.6	2393.6	2391.0
47.5°	2284.8	2281.0	2270.9	2267.1	2263.3
50°	2151.9	2146.9	2135.5	2133.0	2129.2
52.5°	2012.8	2010.3	1995.1	1993.8	1990.0
55°	1874.9	1861.0	1848.3	1848.3	1845.8
57.5°	1723.1	1713.0	1696.5	1696.5	1694.0
60°	1566.2	1557.3	1538.4	1540.9	1538.4
62.5°	1413.1	1394.1	1376.4	1384.0	1377.7
65°	1238.5	1228.4	1209.4	1214.5	1213.2
67.5°	1079.1	1060.2	1042.4	1052.6	1047.5
70°	902.0	891.9	874.2	884.3	871.7
72.5°	735.0	726.2	708.5	719.8	707.2
75°	573.1	564.2	550.3	560.4	547.8
77.5°	420.0	413.7	401.0	411.2	413.7
80°	280.9	273.3	266.9	275.8	278.3
82.5°	164.5	159.4	156.9	158.1	164.5
85°	79.7	73.4	73.4	74.6	74.6
87.5°	21.5	19.0	21.5	22.8	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)