

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: P974978

Luminaire Tested: FLR2-24-20HE-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974978
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: FLR2-24-20HE-L850-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

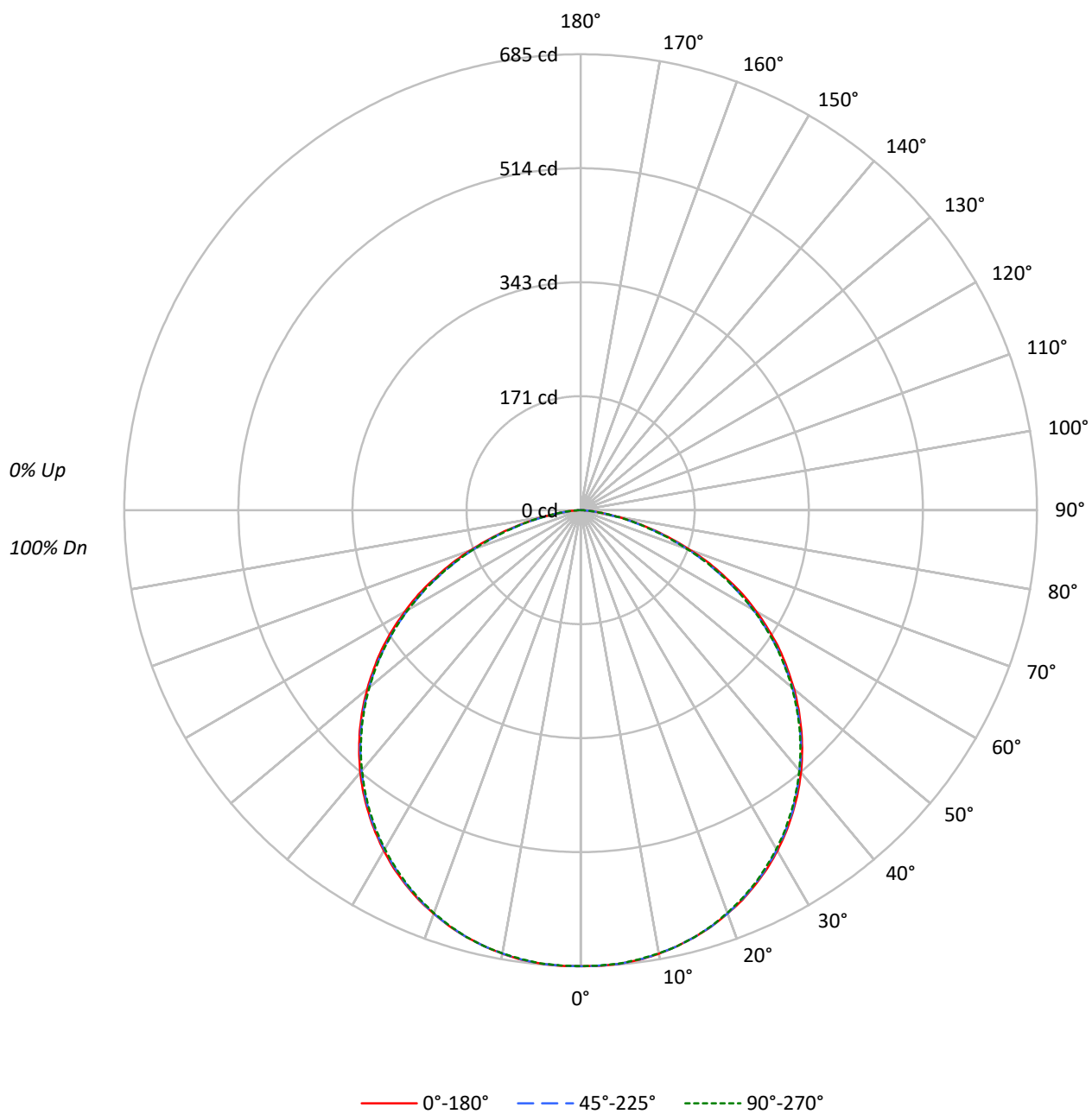
Lumens per Lamp: N/A
Luminaire Lumens: 1936.6 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
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°	922	922	922
5°	924	924	923
10°	924	924	924
15°	925	924	924
20°	924	923	922
25°	922	920	919
30°	918	915	913
35°	912	909	906
40°	904	898	897
45°	892	887	884
50°	875	869	866
55°	855	843	841
60°	819	805	805
65°	766	748	751
70°	690	668	666
75°	579	556	554
80°	423	402	419
85°	239	221	224

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 892 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	3.4
10°-20°	187.4	9.7
20°-30°	285.7	14.8
30°-40°	346.1	17.9
40°-50°	359.5	18.6
50°-60°	321.6	16.6
60°-70°	234.4	12.1
70°-80°	116.1	6.0
80°-90°	20.8	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°	538.1	27.8
0°-40°	884.2	45.7
0°-60°	1565.3	80.8
0°-90°	1936.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1936.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	685	685	685	685	685	
5°	684	684	684	684	684	65
15°	664	664	664	664	664	187
25°	621	620	620	620	619	286
35°	555	554	554	553	552	347
45°	469	468	466	465	465	361
55°	364	362	359	359	359	325
65°	241	239	235	236	236	239
75°	111	110	107	109	106	119
85°	16	14	14	14	14	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	685.2	685.2	685.2	685.2	685.2
2.5°	685.2	684.9	684.9	685.2	684.7
5°	684.0	684.2	684.0	684.0	683.5
7.5°	681.3	681.0	680.8	681.0	680.3
10°	676.6	676.6	676.3	676.6	676.1
12.5°	670.9	670.9	670.9	671.2	670.9
15°	663.8	663.6	663.6	664.0	663.6
17.5°	655.4	655.2	655.2	654.9	654.5
20°	645.1	645.1	644.9	644.6	643.9
22.5°	634.1	633.8	633.1	633.1	632.1
25°	621.0	620.3	619.8	619.5	618.8
27.5°	606.8	605.8	605.0	604.5	603.8
30°	590.8	589.8	589.1	588.3	587.8
32.5°	573.6	573.1	571.9	571.6	570.6
35°	555.1	554.4	553.7	552.7	551.7
37.5°	535.5	534.7	533.0	532.5	531.8
40°	514.6	513.6	511.4	511.4	510.6
42.5°	492.2	491.2	489.7	488.8	488.3
45°	468.8	467.9	466.1	465.2	464.7
47.5°	444.0	443.3	441.3	440.6	439.8
50°	418.2	417.2	415.0	414.5	413.8
52.5°	391.1	390.7	387.7	387.5	386.7
55°	364.4	361.6	359.2	359.2	358.7
57.5°	334.8	332.9	329.7	329.7	329.2
60°	304.4	302.6	299.0	299.4	299.0
62.5°	274.6	270.9	267.5	269.0	267.7
65°	240.7	238.7	235.0	236.0	235.8
67.5°	209.7	206.0	202.6	204.5	203.6
70°	175.3	173.3	169.9	171.9	169.4
72.5°	142.8	141.1	137.7	139.9	137.4
75°	111.4	109.6	106.9	108.9	106.5
77.5°	81.6	80.4	77.9	79.9	80.4
80°	54.6	53.1	51.9	53.6	54.1
82.5°	32.0	31.0	30.5	30.7	32.0
85°	15.5	14.3	14.3	14.5	14.5
87.5°	4.2	3.7	4.2	4.4	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)