

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: P974009

Luminaire Tested: FLR2-22-20HE-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-20HE-L850-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

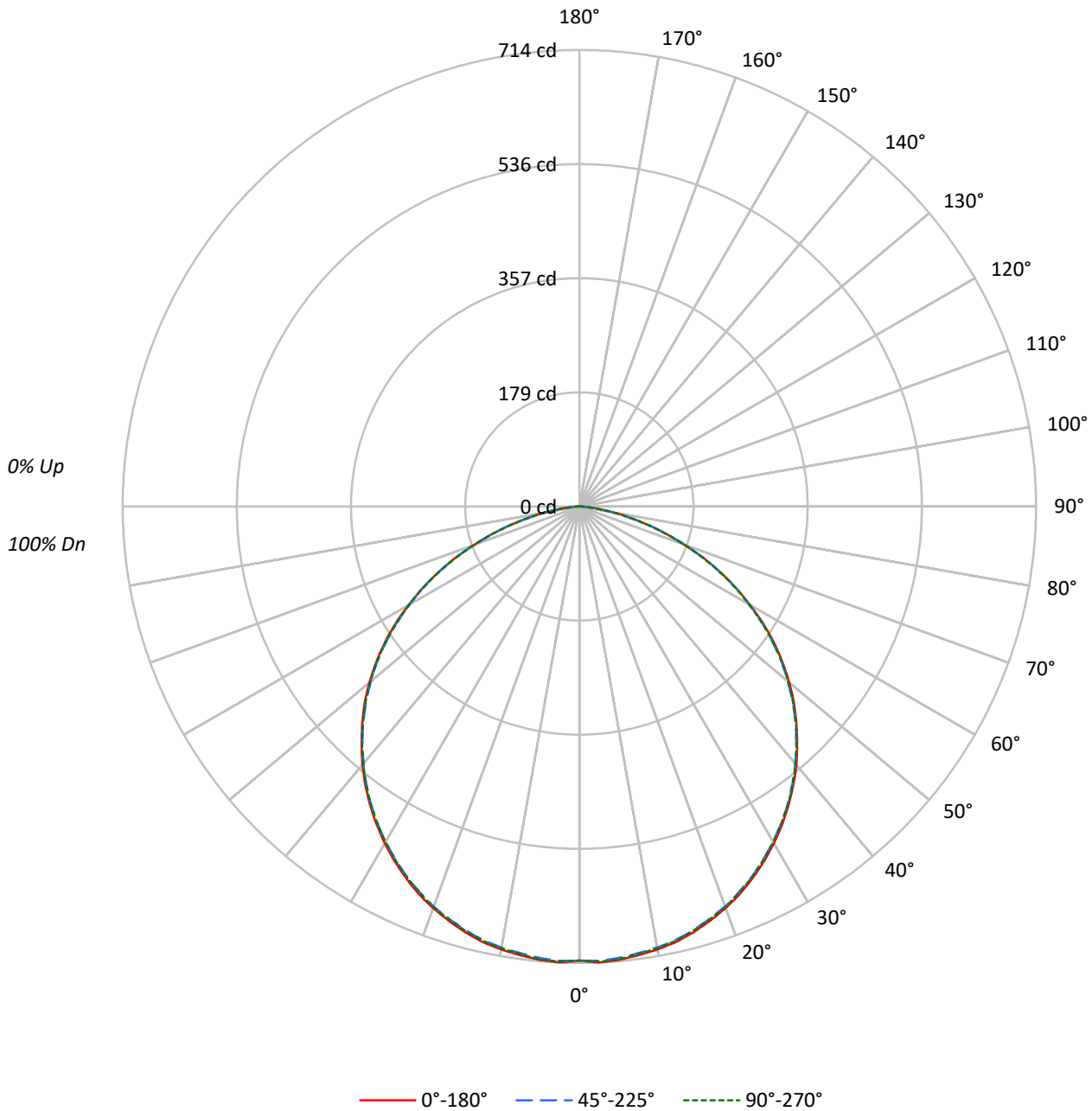
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1986.0 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 14.8
Input Voltage (V): 120
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										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44					44															
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	39	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	40	34	29	27					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1911	1911	1911
5°	1923	1915	1921
10°	1923	1914	1918
15°	1921	1913	1915
20°	1914	1907	1910
25°	1904	1896	1898
30°	1890	1882	1884
35°	1873	1866	1868
40°	1854	1845	1846
45°	1826	1818	1821
50°	1794	1781	1785
55°	1743	1729	1735
60°	1657	1650	1650
65°	1547	1545	1539
70°	1370	1377	1374
75°	1154	1145	1135
80°	829	815	809
85°	432	432	420

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1826 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	3.4
10°-20°	193.4	9.7
20°-30°	293.9	14.8
30°-40°	355.2	17.9
40°-50°	368.7	18.6
50°-60°	329.6	16.6
60°-70°	239.7	12.1
70°-80°	117.9	5.9
80°-90°	20.4	1.0
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°	554.5	27.9
0°-40°	909.7	45.8
0°-60°	1608.1	81.0
0°-90°	1986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1986.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	710	710	710	710	710	
5°	712	704	709	706	711	68
15°	690	682	686	685	687	195
25°	641	634	639	637	639	296
35°	570	566	568	568	568	357
45°	480	478	478	479	479	370
55°	372	369	368	369	370	331
65°	243	244	243	243	242	240
75°	111	112	110	110	109	118
85°	14	14	14	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.2	710.2	710.2	710.2	710.2
2.5°	714.1	705.8	711.1	708.0	712.8
5°	711.9	703.6	708.9	706.2	711.1
7.5°	708.0	699.7	704.9	702.3	706.2
10°	703.6	694.8	700.5	697.9	701.8
12.5°	697.9	689.6	694.8	692.6	696.1
15°	689.6	681.7	686.5	684.7	687.4
17.5°	679.5	671.6	676.4	675.1	677.3
20°	668.5	661.0	665.9	664.6	666.8
22.5°	656.2	648.3	652.7	651.8	653.6
25°	641.3	634.3	638.7	637.4	639.1
27.5°	625.5	618.9	622.4	622.4	623.3
30°	608.4	602.3	605.8	605.8	606.2
32.5°	590.0	585.2	587.4	587.8	587.8
35°	570.2	566.3	568.1	568.5	568.5
37.5°	549.6	545.7	547.0	547.9	547.9
40°	527.7	524.2	525.1	525.9	525.5
42.5°	504.0	501.4	501.8	502.7	502.7
45°	479.9	477.7	477.7	478.6	478.6
47.5°	455.3	453.1	452.3	453.1	453.1
50°	428.6	426.4	425.5	426.4	426.4
52.5°	400.5	398.3	398.3	398.3	398.7
55°	371.5	369.3	368.5	369.3	369.8
57.5°	340.8	340.0	338.6	339.1	337.8
60°	307.9	307.9	306.6	307.5	306.6
62.5°	275.9	276.8	275.5	275.5	274.6
65°	243.0	243.9	242.6	242.6	241.7
67.5°	209.2	210.6	208.8	208.8	207.9
70°	174.1	176.8	175.0	175.5	174.6
72.5°	142.6	143.9	142.1	142.1	141.2
75°	111.0	111.9	110.1	110.5	109.2
77.5°	79.8	81.2	79.4	79.8	79.4
80°	53.5	54.0	52.6	53.1	52.2
82.5°	31.1	31.6	31.1	30.7	30.3
85°	14.0	14.5	14.0	14.0	13.6
87.5°	3.5	3.5	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)