

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: P973669

Luminaire Tested: FLR2-22-20-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973669
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: FLR2-22-20-L850-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

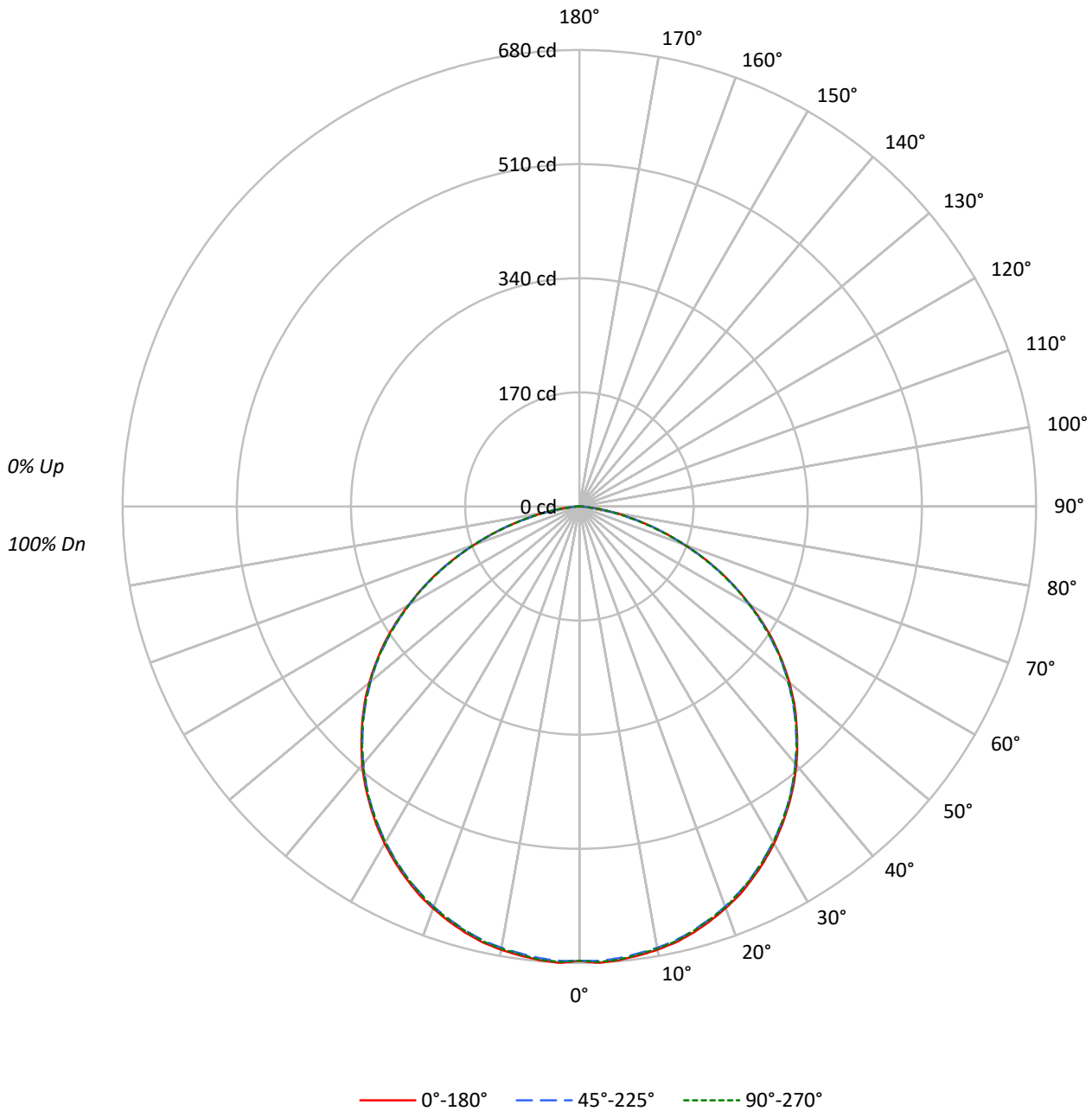
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1892.6 lumens
Efficiency: N/A
Efficacy: 125.3 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): 15.1
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°	1821	1821	1821
5°	1833	1825	1830
10°	1832	1824	1827
15°	1831	1823	1825
20°	1824	1817	1820
25°	1814	1807	1808
30°	1802	1794	1795
35°	1785	1778	1780
40°	1767	1758	1759
45°	1740	1732	1736
50°	1710	1698	1701
55°	1661	1647	1653
60°	1579	1573	1573
65°	1475	1472	1466
70°	1306	1312	1309
75°	1100	1091	1082
80°	790	778	770
85°	414	414	401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1740 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	3.4
10°-20°	184.3	9.7
20°-30°	280.1	14.8
30°-40°	338.5	17.9
40°-50°	351.4	18.6
50°-60°	314.1	16.6
60°-70°	228.4	12.1
70°-80°	112.3	5.9
80°-90°	19.5	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°	528.4	27.9
0°-40°	866.9	45.8
0°-60°	1532.4	81.0
0°-90°	1892.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	677	677	677	677	677	
5°	678	670	676	673	678	64
15°	657	650	654	652	655	185
25°	611	604	609	607	609	282
35°	543	540	541	542	542	340
45°	457	455	455	456	456	353
55°	354	352	351	352	352	316
65°	232	232	231	231	230	228
75°	106	107	105	105	104	112
85°	13	14	13	13	13	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.8	676.8	676.8	676.8	676.8
2.5°	680.5	672.6	677.6	674.7	679.3
5°	678.4	670.5	675.5	673.0	677.6
7.5°	674.7	666.7	671.7	669.2	673.0
10°	670.5	662.1	667.6	665.1	668.8
12.5°	665.1	657.1	662.1	660.0	663.4
15°	657.1	649.6	654.2	652.5	655.0
17.5°	647.5	640.0	644.6	643.3	645.4
20°	637.0	629.9	634.5	633.3	635.4
22.5°	625.3	617.8	622.0	621.2	622.8
25°	611.1	604.4	608.6	607.4	609.0
27.5°	596.1	589.8	593.2	593.2	594.0
30°	579.8	573.9	577.3	577.3	577.7
32.5°	562.2	557.6	559.7	560.1	560.1
35°	543.4	539.7	541.3	541.7	541.7
37.5°	523.8	520.0	521.3	522.1	522.1
40°	502.9	499.5	500.4	501.2	500.8
42.5°	480.3	477.8	478.2	479.0	479.0
45°	457.3	455.2	455.2	456.1	456.1
47.5°	433.9	431.8	431.0	431.8	431.8
50°	408.4	406.3	405.5	406.3	406.3
52.5°	381.6	379.6	379.6	379.6	380.0
55°	354.1	352.0	351.1	352.0	352.4
57.5°	324.8	324.0	322.7	323.1	321.9
60°	293.4	293.4	292.2	293.0	292.2
62.5°	262.9	263.8	262.5	262.5	261.7
65°	231.6	232.4	231.2	231.2	230.3
67.5°	199.4	200.6	199.0	199.0	198.1
70°	166.0	168.5	166.8	167.2	166.4
72.5°	135.9	137.1	135.4	135.4	134.6
75°	105.8	106.6	104.9	105.3	104.1
77.5°	76.1	77.3	75.7	76.1	75.7
80°	51.0	51.4	50.2	50.6	49.7
82.5°	29.7	30.1	29.7	29.3	28.8
85°	13.4	13.8	13.4	13.4	13.0
87.5°	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)