

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: P973706

Luminaire Tested: FLR2-22-25-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973706
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: FLR2-22-25-L950-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

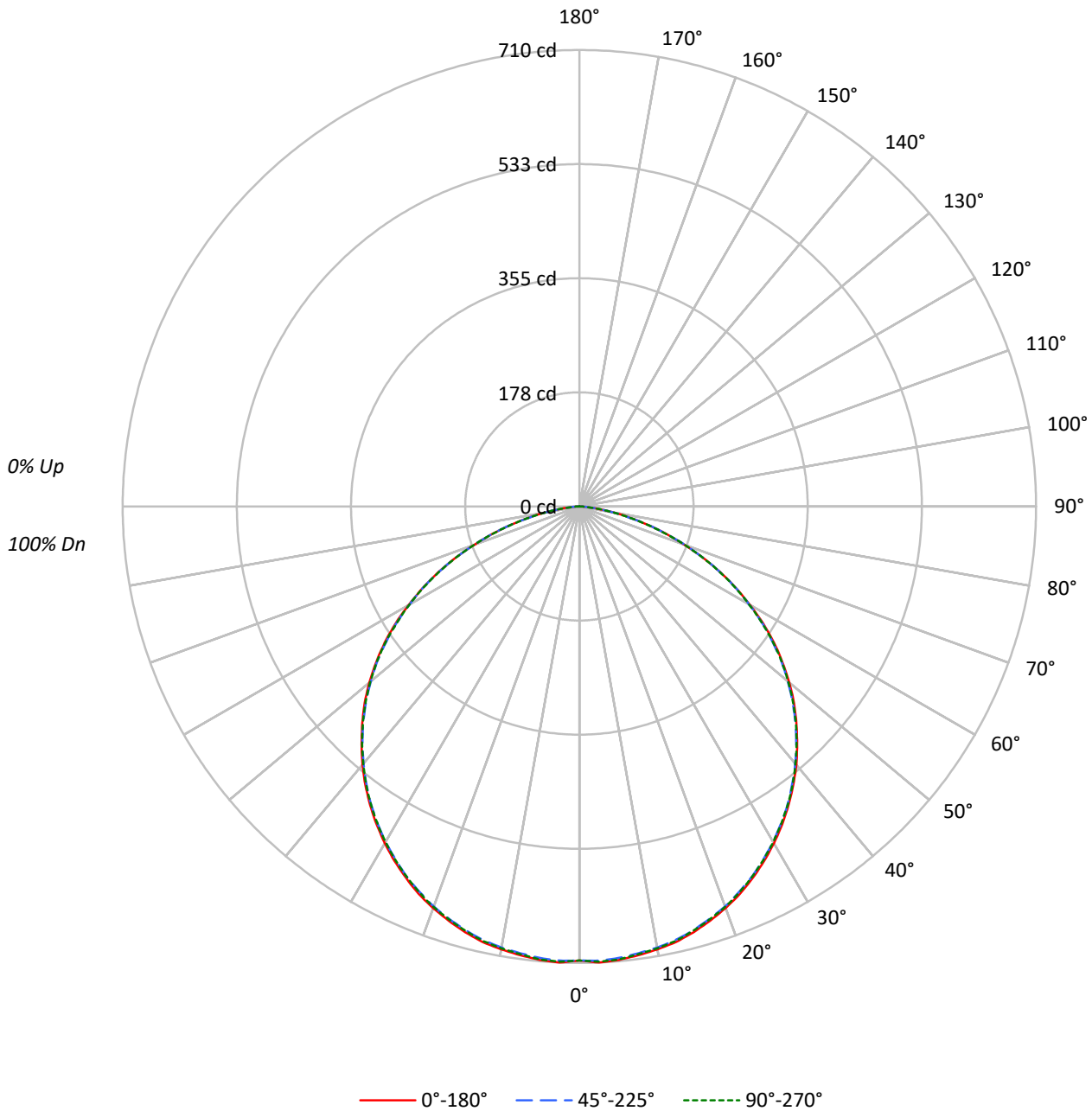
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1974.9 lumens
Efficiency: N/A
Efficacy: 104.5 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): 18.9
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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1900	1900	1900
5°	1912	1904	1910
10°	1912	1903	1907
15°	1910	1902	1904
20°	1904	1896	1899
25°	1893	1886	1887
30°	1880	1872	1873
35°	1863	1856	1857
40°	1843	1834	1836
45°	1816	1808	1811
50°	1784	1771	1775
55°	1734	1719	1725
60°	1648	1641	1641
65°	1538	1536	1530
70°	1363	1369	1366
75°	1148	1138	1129
80°	824	810	804
85°	432	432	417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1816 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	3.4
10°-20°	192.3	9.7
20°-30°	292.2	14.8
30°-40°	353.2	17.9
40°-50°	366.6	18.6
50°-60°	327.8	16.6
60°-70°	238.3	12.1
70°-80°	117.2	5.9
80°-90°	20.3	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°	551.4	27.9
0°-40°	904.6	45.8
0°-60°	1599.1	81.0
0°-90°	1974.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1974.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	708	700	705	702	707	67
15°	686	678	683	681	684	193
25°	638	631	635	634	636	294
35°	567	563	565	565	565	355
45°	477	475	475	476	476	368
55°	370	367	366	367	368	329
65°	242	242	241	241	240	238
75°	110	111	110	110	109	117
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°	706.2	706.2	706.2	706.2	706.2
2.5°	710.1	701.8	707.1	704.0	708.8
5°	707.9	699.6	704.9	702.3	707.1
7.5°	704.0	695.7	701.0	698.3	702.3
10°	699.6	690.9	696.6	694.0	697.9
12.5°	694.0	685.7	690.9	688.7	692.2
15°	685.7	677.8	682.6	680.9	683.5
17.5°	675.7	667.8	672.6	671.3	673.5
20°	664.8	657.3	662.1	660.8	663.0
22.5°	652.5	644.7	649.0	648.2	649.9
25°	637.7	630.7	635.1	633.8	635.5
27.5°	622.0	615.5	619.0	619.0	619.8
30°	605.0	598.9	602.4	602.4	602.8
32.5°	586.7	581.9	584.1	584.5	584.5
35°	567.0	563.1	564.9	565.3	565.3
37.5°	546.5	542.6	543.9	544.8	544.8
40°	524.7	521.2	522.1	523.0	522.6
42.5°	501.2	498.6	499.0	499.9	499.9
45°	477.2	475.0	475.0	475.9	475.9
47.5°	452.8	450.6	449.7	450.6	450.6
50°	426.2	424.0	423.1	424.0	424.0
52.5°	398.2	396.1	396.1	396.1	396.5
55°	369.5	367.3	366.4	367.3	367.7
57.5°	338.9	338.0	336.7	337.2	335.9
60°	306.2	306.2	304.9	305.8	304.9
62.5°	274.4	275.2	273.9	273.9	273.1
65°	241.6	242.5	241.2	241.2	240.3
67.5°	208.1	209.4	207.6	207.6	206.8
70°	173.2	175.8	174.0	174.5	173.6
72.5°	141.8	143.1	141.3	141.3	140.5
75°	110.4	111.2	109.5	109.9	108.6
77.5°	79.4	80.7	79.0	79.4	79.0
80°	53.2	53.7	52.3	52.8	51.9
82.5°	31.0	31.4	31.0	30.5	30.1
85°	14.0	14.4	14.0	14.0	13.5
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)