

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: P973714

Luminaire Tested: FLR2-22-25-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973714
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

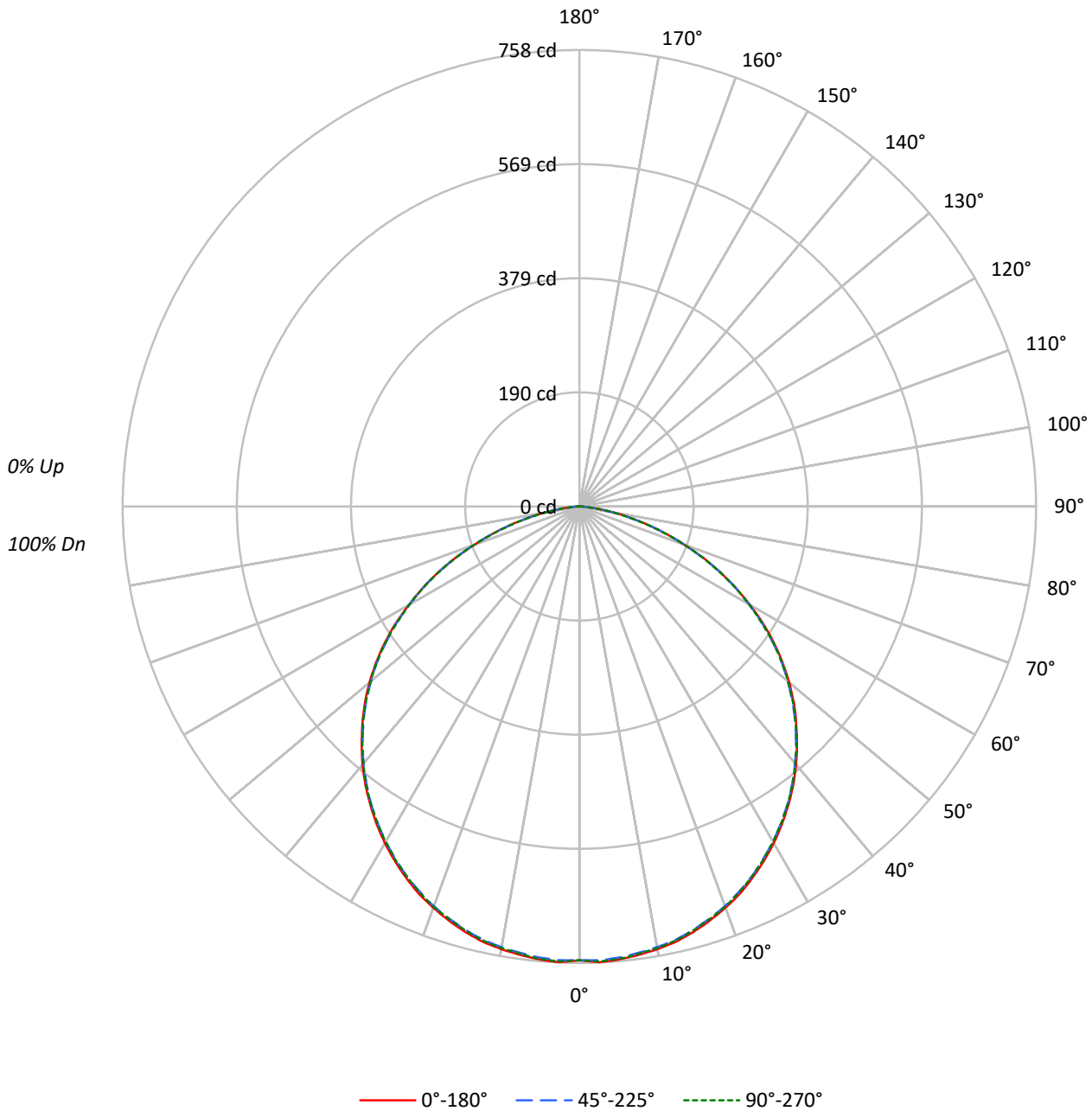
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2107.0 lumens
Efficiency: N/A
Efficacy: 111.5 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	2027	2027	2027
5°	2040	2031	2038
10°	2040	2031	2035
15°	2038	2029	2031
20°	2031	2023	2026
25°	2020	2012	2013
30°	2006	1997	1998
35°	1987	1980	1981
40°	1966	1957	1958
45°	1937	1929	1932
50°	1904	1890	1894
55°	1849	1834	1841
60°	1758	1751	1751
65°	1642	1639	1633
70°	1454	1461	1457
75°	1224	1214	1205
80°	880	865	859
85°	460	460	445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1937 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	3.4
10°-20°	205.2	9.7
20°-30°	311.8	14.8
30°-40°	376.9	17.9
40°-50°	391.2	18.6
50°-60°	349.7	16.6
60°-70°	254.3	12.1
70°-80°	125.0	5.9
80°-90°	21.7	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°	588.3	27.9
0°-40°	965.2	45.8
0°-60°	1706.0	81.0
0°-90°	2107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	755	746	752	749	754	72
15°	732	723	728	726	729	206
25°	680	673	678	676	678	314
35°	605	601	603	603	603	378
45°	509	507	507	508	508	393
55°	394	392	391	392	392	351
65°	258	259	257	257	256	254
75°	118	119	117	117	116	125
85°	15	15	15	15	14	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	753.4	753.4	753.4	753.4	753.4
2.5°	757.6	748.8	754.4	751.1	756.2
5°	755.3	746.5	752.0	749.3	754.4
7.5°	751.1	742.3	747.9	745.1	749.3
10°	746.5	737.2	743.2	740.4	744.6
12.5°	740.4	731.6	737.2	734.8	738.5
15°	731.6	723.2	728.3	726.4	729.2
17.5°	720.9	712.5	717.6	716.2	718.5
20°	709.2	701.3	706.4	705.0	707.4
22.5°	696.2	687.8	692.5	691.5	693.4
25°	680.4	672.9	677.6	676.2	678.0
27.5°	663.6	656.6	660.4	660.4	661.3
30°	645.5	639.0	642.7	642.7	643.1
32.5°	625.9	620.8	623.1	623.6	623.6
35°	605.0	600.8	602.7	603.1	603.1
37.5°	583.1	578.9	580.3	581.3	581.3
40°	559.8	556.1	557.1	558.0	557.5
42.5°	534.7	531.9	532.4	533.3	533.3
45°	509.1	506.8	506.8	507.7	507.7
47.5°	483.1	480.7	479.8	480.7	480.7
50°	454.7	452.3	451.4	452.3	452.3
52.5°	424.9	422.6	422.6	422.6	423.0
55°	394.2	391.8	390.9	391.8	392.3
57.5°	361.6	360.7	359.3	359.7	358.3
60°	326.7	326.7	325.3	326.2	325.3
62.5°	292.7	293.7	292.3	292.3	291.3
65°	257.8	258.7	257.4	257.4	256.4
67.5°	222.0	223.4	221.5	221.5	220.6
70°	184.8	187.5	185.7	186.1	185.2
72.5°	151.2	152.6	150.8	150.8	149.9
75°	117.7	118.7	116.8	117.3	115.9
77.5°	84.7	86.1	84.2	84.7	84.2
80°	56.8	57.2	55.8	56.3	55.4
82.5°	33.0	33.5	33.0	32.6	32.1
85°	14.9	15.4	14.9	14.9	14.4
87.5°	3.7	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)