

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: P973694

Luminaire Tested: FLR2-22-25-L950-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973694
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

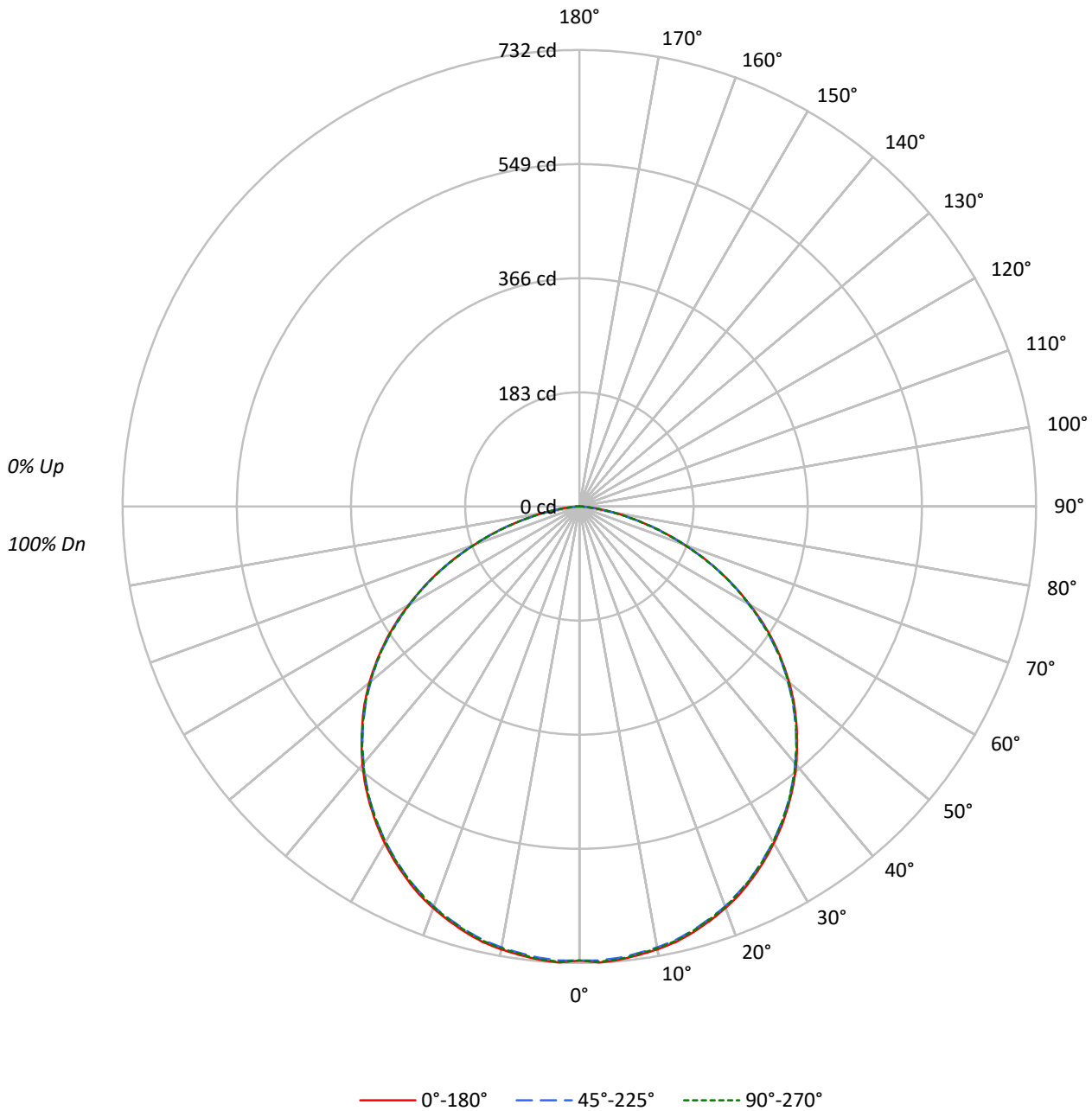
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2035.8 lumens
Efficiency: N/A
Efficacy: 107.7 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										
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°	1959	1959	1959
5°	1971	1963	1969
10°	1971	1962	1966
15°	1969	1960	1963
20°	1962	1955	1957
25°	1952	1944	1945
30°	1938	1930	1931
35°	1920	1913	1914
40°	1900	1891	1892
45°	1872	1864	1867
50°	1839	1826	1830
55°	1787	1772	1779
60°	1699	1692	1692
65°	1586	1584	1578
70°	1404	1412	1408
75°	1183	1174	1164
80°	851	837	829
85°	445	445	429

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1872 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	3.4
10°-20°	198.2	9.7
20°-30°	301.3	14.8
30°-40°	364.1	17.9
40°-50°	378.0	18.6
50°-60°	337.9	16.6
60°-70°	245.7	12.1
70°-80°	120.8	5.9
80°-90°	21.0	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°	568.4	27.9
0°-40°	932.5	45.8
0°-60°	1648.4	81.0
0°-90°	2035.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2035.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	730	721	727	724	729	69
15°	707	699	704	702	705	199
25°	657	650	655	653	655	303
35°	584	580	582	583	583	366
45°	492	490	490	491	491	379
55°	381	379	378	379	379	339
65°	249	250	249	249	248	246
75°	114	115	113	113	112	121
85°	14	15	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°	728.0	728.0	728.0	728.0	728.0
2.5°	732.0	723.5	728.9	725.7	730.7
5°	729.8	721.2	726.6	723.9	728.9
7.5°	725.7	717.2	722.6	719.9	723.9
10°	721.2	712.2	718.1	715.4	719.4
12.5°	715.4	706.8	712.2	710.0	713.6
15°	706.8	698.7	703.7	701.9	704.6
17.5°	696.5	688.4	693.4	692.0	694.3
20°	685.3	677.6	682.6	681.2	683.5
22.5°	672.7	664.6	669.1	668.2	670.0
25°	657.4	650.2	654.7	653.3	655.1
27.5°	641.2	634.4	638.0	638.0	638.9
30°	623.7	617.4	621.0	621.0	621.4
32.5°	604.8	599.8	602.1	602.5	602.5
35°	584.5	580.5	582.3	582.7	582.7
37.5°	563.4	559.4	560.7	561.6	561.6
40°	540.9	537.3	538.2	539.1	538.7
42.5°	516.6	513.9	514.4	515.3	515.3
45°	491.9	489.7	489.7	490.6	490.6
47.5°	466.7	464.5	463.6	464.5	464.5
50°	439.3	437.1	436.2	437.1	437.1
52.5°	410.5	408.3	408.3	408.3	408.7
55°	380.8	378.6	377.7	378.6	379.1
57.5°	349.4	348.5	347.1	347.6	346.2
60°	315.7	315.7	314.3	315.2	314.3
62.5°	282.8	283.7	282.4	282.4	281.5
65°	249.1	250.0	248.7	248.7	247.8
67.5°	214.5	215.8	214.0	214.0	213.1
70°	178.5	181.2	179.4	179.9	179.0
72.5°	146.1	147.5	145.7	145.7	144.8
75°	113.8	114.7	112.9	113.3	112.0
77.5°	81.8	83.2	81.4	81.8	81.4
80°	54.9	55.3	54.0	54.4	53.5
82.5°	31.9	32.4	31.9	31.5	31.0
85°	14.4	14.8	14.4	14.4	13.9
87.5°	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)