

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: P974345

Luminaire Tested: FLR2-24-20-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-20-L940-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L940-CP125
Ballast/Driver: -

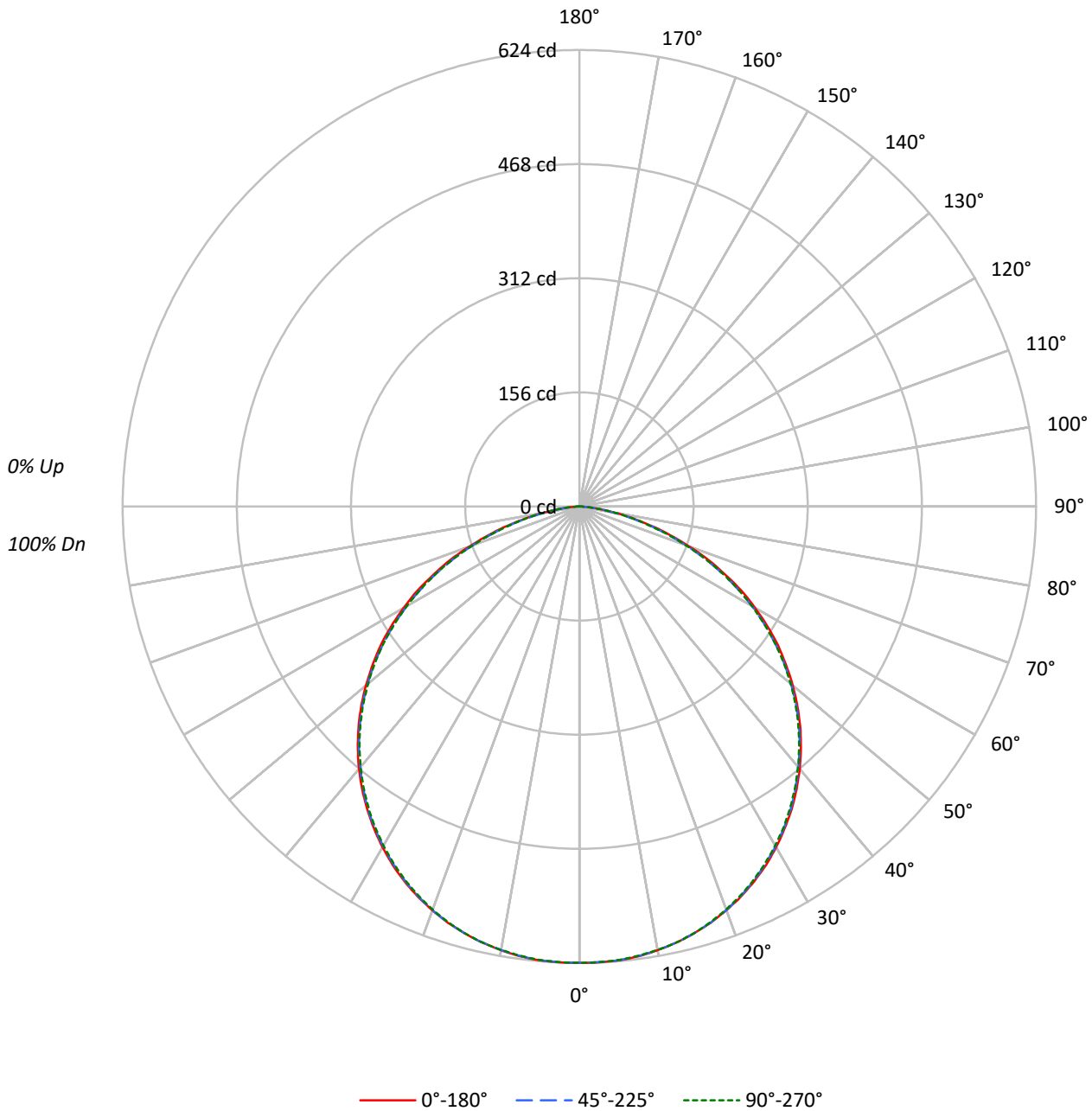
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1763.3 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	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	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	839	839	839
5°	841	841	840
10°	842	841	841
15°	842	842	842
20°	841	841	839
25°	839	838	836
30°	836	833	832
35°	830	828	825
40°	823	818	817
45°	812	808	805
50°	797	791	789
55°	778	767	766
60°	746	732	732
65°	698	681	684
70°	628	609	607
75°	527	506	504
80°	385	366	381
85°	218	201	204

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 812 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	3.4
10°-20°	170.6	9.7
20°-30°	260.1	14.8
30°-40°	315.1	17.9
40°-50°	327.3	18.6
50°-60°	292.8	16.6
60°-70°	213.4	12.1
70°-80°	105.7	6.0
80°-90°	18.9	1.1
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°	489.9	27.8
0°-40°	805.1	45.7
0°-60°	1425.2	80.8
0°-90°	1763.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1763.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	624	624	624	624	624	
5°	623	623	623	623	622	59
15°	604	604	604	605	604	171
25°	565	565	564	564	563	261
35°	506	505	504	503	502	316
45°	427	426	424	424	423	329
55°	332	329	327	327	327	296
65°	219	217	214	215	215	217
75°	101	100	97	99	97	108
85°	14	13	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°	623.9	623.9	623.9	623.9	623.9
2.5°	623.9	623.6	623.6	623.9	623.4
5°	622.8	623.0	622.8	622.8	622.3
7.5°	620.3	620.1	619.8	620.1	619.4
10°	616.0	616.0	615.8	616.0	615.6
12.5°	610.9	610.9	610.9	611.1	610.9
15°	604.4	604.2	604.2	604.6	604.2
17.5°	596.8	596.6	596.6	596.3	595.9
20°	587.4	587.4	587.2	586.9	586.3
22.5°	577.3	577.1	576.4	576.4	575.5
25°	565.4	564.8	564.3	564.1	563.4
27.5°	552.5	551.6	550.9	550.4	549.8
30°	537.9	537.0	536.3	535.7	535.2
32.5°	522.2	521.8	520.7	520.5	519.6
35°	505.5	504.8	504.1	503.2	502.3
37.5°	487.5	486.9	485.3	484.9	484.2
40°	468.5	467.6	465.6	465.6	464.9
42.5°	448.1	447.3	445.9	445.0	444.6
45°	426.9	426.0	424.4	423.5	423.1
47.5°	404.3	403.6	401.8	401.1	400.5
50°	380.8	379.9	377.9	377.4	376.7
52.5°	356.1	355.7	353.0	352.8	352.1
55°	331.7	329.3	327.0	327.0	326.6
57.5°	304.9	303.1	300.2	300.2	299.7
60°	277.1	275.6	272.2	272.6	272.2
62.5°	250.0	246.7	243.5	244.9	243.8
65°	219.1	217.4	214.0	214.9	214.7
67.5°	190.9	187.6	184.5	186.2	185.3
70°	159.6	157.8	154.7	156.5	154.2
72.5°	130.1	128.5	125.4	127.4	125.1
75°	101.4	99.8	97.4	99.2	96.9
77.5°	74.3	73.2	71.0	72.8	73.2
80°	49.7	48.4	47.2	48.8	49.2
82.5°	29.1	28.2	27.8	28.0	29.1
85°	14.1	13.0	13.0	13.2	13.2
87.5°	3.8	3.4	3.8	4.0	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)