

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: P974121

Luminaire Tested: FLR2-24-20-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974121
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-L930-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L930-CP125
Ballast/Driver: -

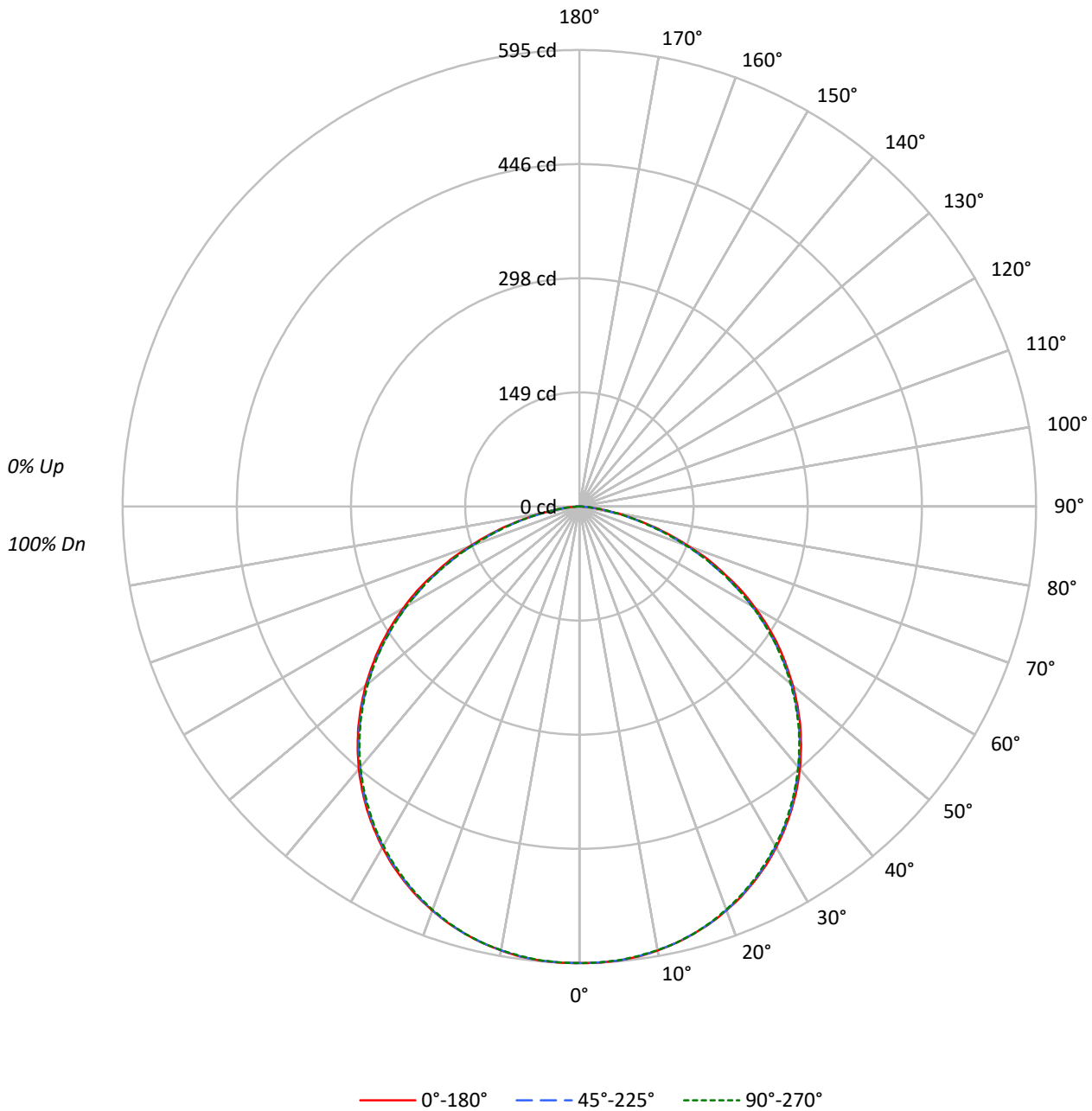
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1682.2 lumens
Efficiency: N/A
Efficacy: 100.7 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°	801	801	801
5°	802	802	802
10°	803	803	802
15°	803	803	803
20°	802	802	801
25°	801	799	798
30°	797	795	793
35°	792	790	787
40°	785	780	779
45°	775	770	768
50°	760	755	752
55°	742	732	731
60°	711	699	699
65°	666	650	652
70°	599	581	579
75°	503	483	481
80°	367	349	364
85°	208	191	195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 775 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	3.4
10°-20°	162.8	9.7
20°-30°	248.1	14.8
30°-40°	300.6	17.9
40°-50°	312.3	18.6
50°-60°	279.4	16.6
60°-70°	203.6	12.1
70°-80°	100.8	6.0
80°-90°	18.0	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°	467.4	27.8
0°-40°	768.0	45.7
0°-60°	1359.7	80.8
0°-90°	1682.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1682.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	594	594	594	594	594	57
15°	577	576	576	577	576	163
25°	539	539	538	538	538	249
35°	482	482	481	480	479	302
45°	407	406	405	404	404	314
55°	316	314	312	312	312	282
65°	209	207	204	205	205	207
75°	97	95	93	95	92	103
85°	14	12	12	13	13	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	595.2	595.2	595.2	595.2	595.2
2.5°	595.2	595.0	595.0	595.2	594.8
5°	594.1	594.3	594.1	594.1	593.7
7.5°	591.8	591.6	591.3	591.6	590.9
10°	587.7	587.7	587.5	587.7	587.3
12.5°	582.8	582.8	582.8	583.0	582.8
15°	576.6	576.4	576.4	576.8	576.4
17.5°	569.3	569.1	569.1	568.9	568.5
20°	560.4	560.4	560.2	559.9	559.3
22.5°	550.8	550.6	549.9	549.9	549.1
25°	539.4	538.8	538.4	538.2	537.5
27.5°	527.1	526.2	525.6	525.1	524.5
30°	513.2	512.3	511.7	511.0	510.6
32.5°	498.2	497.8	496.7	496.5	495.7
35°	482.2	481.6	480.9	480.1	479.2
37.5°	465.1	464.5	463.0	462.6	461.9
40°	447.0	446.1	444.2	444.2	443.6
42.5°	427.5	426.7	425.4	424.6	424.1
45°	407.3	406.4	404.9	404.1	403.6
47.5°	385.7	385.0	383.3	382.7	382.1
50°	363.3	362.4	360.5	360.1	359.4
52.5°	339.8	339.3	336.8	336.6	335.9
55°	316.5	314.1	312.0	312.0	311.6
57.5°	290.9	289.2	286.4	286.4	286.0
60°	264.4	262.9	259.7	260.1	259.7
62.5°	238.5	235.3	232.4	233.6	232.6
65°	209.1	207.4	204.2	205.0	204.8
67.5°	182.2	179.0	176.0	177.7	176.8
70°	152.3	150.6	147.6	149.3	147.1
72.5°	124.1	122.6	119.6	121.5	119.4
75°	96.7	95.2	92.9	94.6	92.5
77.5°	70.9	69.8	67.7	69.4	69.8
80°	47.4	46.1	45.1	46.6	47.0
82.5°	27.8	26.9	26.5	26.7	27.8
85°	13.5	12.4	12.4	12.6	12.6
87.5°	3.6	3.2	3.6	3.8	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)