

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: P974233

Luminaire Tested: FLR2-24-20-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974233
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-L935-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L935-CP125
Ballast/Driver: -

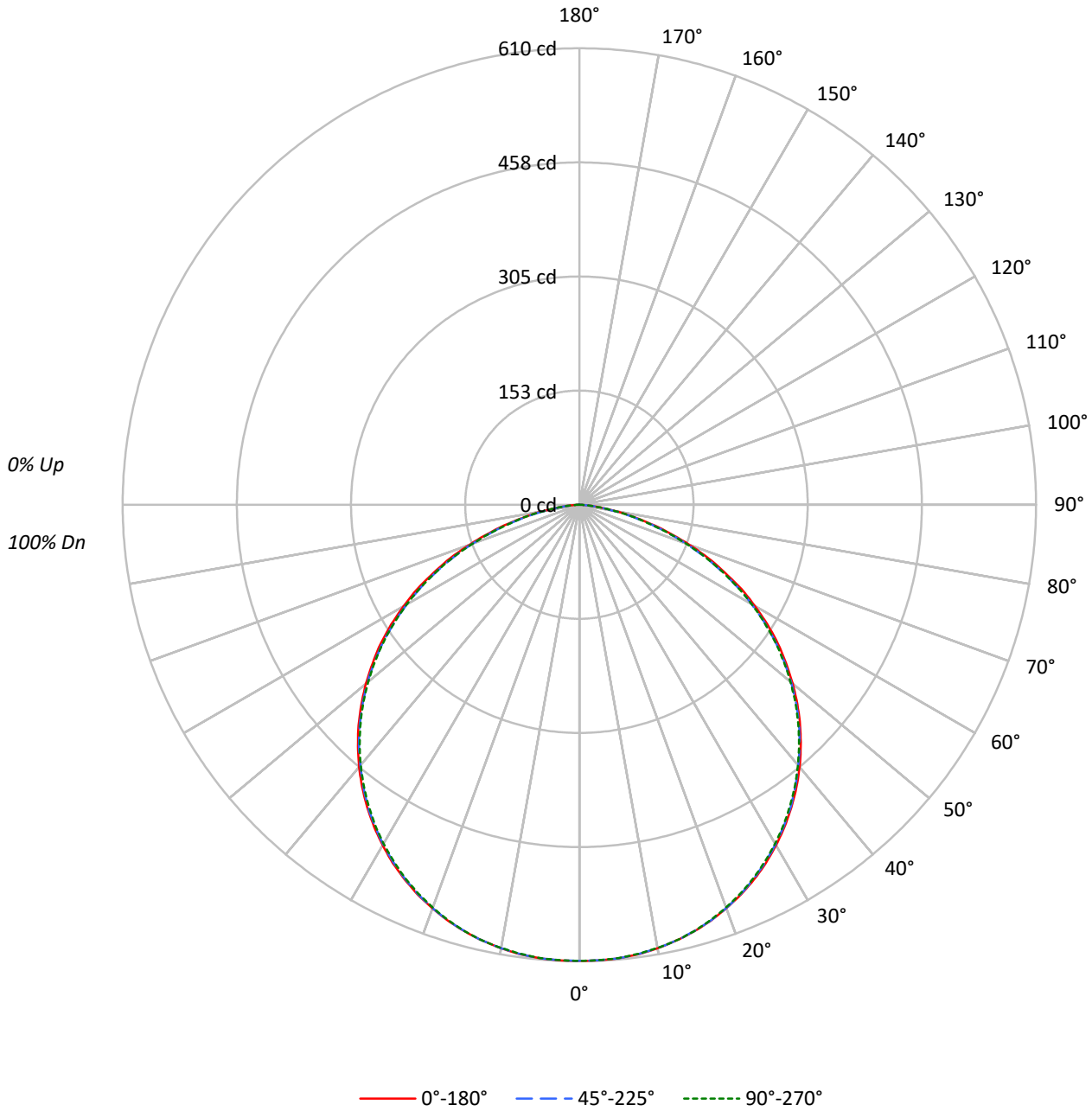
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1722.7 lumens
Efficiency: N/A
Efficacy: 103.2 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°	820	820	820
5°	822	822	821
10°	822	822	822
15°	823	822	822
20°	822	821	820
25°	820	819	817
30°	816	814	812
35°	811	809	806
40°	804	799	798
45°	794	789	787
50°	779	773	771
55°	760	749	749
60°	729	716	716
65°	682	666	668
70°	613	594	593
75°	515	494	492
80°	377	357	373
85°	213	196	199

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 794 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	3.4
10°-20°	166.7	9.7
20°-30°	254.1	14.8
30°-40°	307.9	17.9
40°-50°	319.8	18.6
50°-60°	286.1	16.6
60°-70°	208.5	12.1
70°-80°	103.3	6.0
80°-90°	18.5	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°	478.7	27.8
0°-40°	786.5	45.7
0°-60°	1392.5	80.8
0°-90°	1722.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1722.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	608	609	608	608	608	58
15°	590	590	590	591	590	167
25°	552	552	551	551	550	255
35°	494	493	492	492	491	309
45°	417	416	415	414	413	321
55°	324	322	320	320	319	289
65°	214	212	209	210	210	212
75°	99	98	95	97	95	106
85°	14	13	13	13	13	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	609.5	609.5	609.5	609.5	609.5
2.5°	609.5	609.3	609.3	609.5	609.1
5°	608.4	608.7	608.4	608.4	608.0
7.5°	606.0	605.8	605.6	605.8	605.2
10°	601.9	601.9	601.7	601.9	601.4
12.5°	596.8	596.8	596.8	597.1	596.8
15°	590.5	590.3	590.3	590.7	590.3
17.5°	583.1	582.8	582.8	582.6	582.2
20°	573.9	573.9	573.7	573.4	572.8
22.5°	564.0	563.8	563.2	563.2	562.3
25°	552.4	551.8	551.4	551.1	550.5
27.5°	539.8	538.9	538.2	537.8	537.1
30°	525.5	524.7	524.0	523.4	522.9
32.5°	510.2	509.8	508.7	508.5	507.6
35°	493.8	493.2	492.5	491.6	490.8
37.5°	476.3	475.7	474.1	473.7	473.1
40°	457.7	456.9	454.9	454.9	454.2
42.5°	437.8	437.0	435.7	434.8	434.3
45°	417.1	416.2	414.7	413.8	413.4
47.5°	395.0	394.3	392.6	391.9	391.3
50°	372.0	371.1	369.2	368.7	368.1
52.5°	348.0	347.5	344.9	344.7	344.0
55°	324.1	321.7	319.5	319.5	319.1
57.5°	297.9	296.1	293.3	293.3	292.8
60°	270.8	269.2	265.9	266.4	265.9
62.5°	244.3	241.0	237.9	239.3	238.2
65°	214.1	212.4	209.1	210.0	209.7
67.5°	186.6	183.3	180.2	182.0	181.1
70°	155.9	154.2	151.1	152.9	150.7
72.5°	127.1	125.5	122.5	124.4	122.3
75°	99.1	97.5	95.1	96.9	94.7
77.5°	72.6	71.5	69.3	71.1	71.5
80°	48.6	47.2	46.1	47.7	48.1
82.5°	28.4	27.6	27.1	27.3	28.4
85°	13.8	12.7	12.7	12.9	12.9
87.5°	3.7	3.3	3.7	3.9	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)