

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: P974257

Luminaire Tested: FLR2-24-20-L935-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974257  
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-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-20-L935-CP375  
Ballast/Driver: -

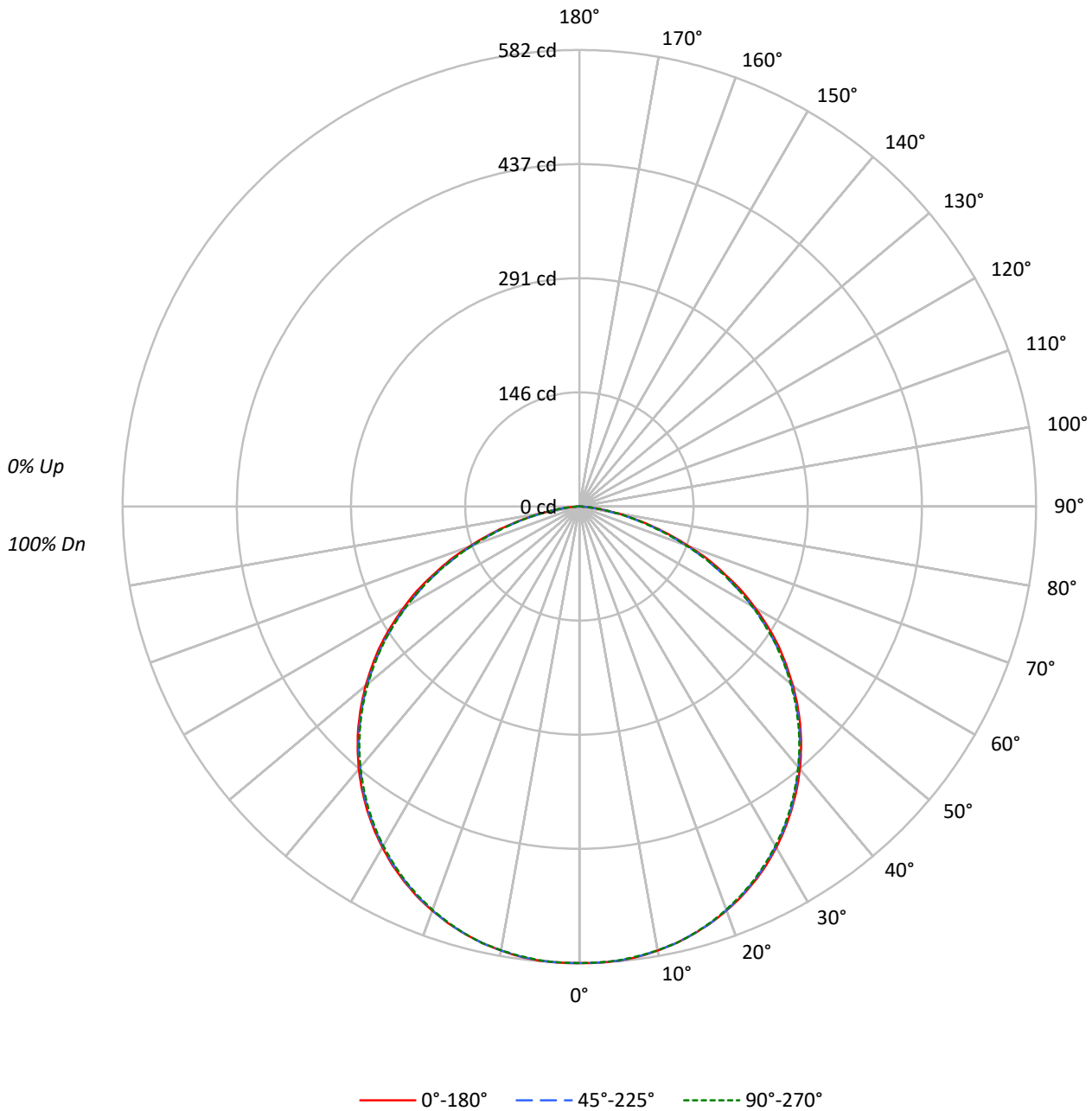
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1645.8 lumens  
Efficiency: N/A  
Efficacy: 98.6 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°	783	783	783
5°	785	785	785
10°	786	785	785
15°	786	785	785
20°	785	785	784
25°	784	782	781
30°	780	778	776
35°	775	773	770
40°	768	763	762
45°	758	754	751
50°	744	738	736
55°	726	716	715
60°	696	684	684
65°	651	636	638
70°	586	568	566
75°	492	473	470
80°	360	342	356
85°	204	187	190

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 758 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.3	3.4
10°-20°	159.2	9.7
20°-30°	242.8	14.8
30°-40°	294.2	17.9
40°-50°	305.5	18.6
50°-60°	273.3	16.6
60°-70°	199.2	12.1
70°-80°	98.7	6.0
80°-90°	17.6	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°	457.3	27.8
0°-40°	751.4	45.7
0°-60°	1330.3	80.8
0°-90°	1645.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1645.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	581	582	581	581	581	55
15°	564	564	564	564	564	159
25°	528	527	527	526	526	243
35°	472	471	470	470	469	295
45°	398	398	396	395	395	307
55°	310	307	305	305	305	276
65°	205	203	200	201	200	203
75°	95	93	91	93	90	101
85°	13	12	12	12	12	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	582.3	582.3	582.3	582.3	582.3
2.5°	582.3	582.1	582.1	582.3	581.9
5°	581.3	581.5	581.3	581.3	580.9
7.5°	579.0	578.8	578.6	578.8	578.1
10°	575.0	575.0	574.8	575.0	574.6
12.5°	570.2	570.2	570.2	570.4	570.2
15°	564.1	563.9	563.9	564.4	563.9
17.5°	557.0	556.8	556.8	556.6	556.2
20°	548.3	548.3	548.1	547.8	547.2
22.5°	538.9	538.7	538.0	538.0	537.2
25°	527.8	527.2	526.7	526.5	525.9
27.5°	515.7	514.8	514.2	513.8	513.2
30°	502.1	501.3	500.6	500.0	499.6
32.5°	487.5	487.0	486.0	485.8	485.0
35°	471.8	471.2	470.5	469.7	468.9
37.5°	455.1	454.4	453.0	452.6	451.9
40°	437.3	436.5	434.6	434.6	434.0
42.5°	418.3	417.5	416.2	415.4	415.0
45°	398.5	397.6	396.2	395.3	394.9
47.5°	377.3	376.7	375.1	374.4	373.8
50°	355.4	354.6	352.7	352.3	351.6
52.5°	332.4	332.0	329.5	329.3	328.7
55°	309.7	307.4	305.3	305.3	304.8
57.5°	284.6	282.9	280.2	280.2	279.8
60°	258.7	257.2	254.1	254.5	254.1
62.5°	233.4	230.3	227.3	228.6	227.5
65°	204.6	202.9	199.7	200.6	200.4
67.5°	178.2	175.1	172.2	173.8	173.0
70°	149.0	147.3	144.4	146.1	144.0
72.5°	121.4	119.9	117.0	118.9	116.8
75°	94.7	93.2	90.9	92.6	90.5
77.5°	69.4	68.3	66.2	67.9	68.3
80°	46.4	45.1	44.1	45.5	46.0
82.5°	27.2	26.3	25.9	26.1	27.2
85°	13.2	12.1	12.1	12.3	12.3
87.5°	3.6	3.1	3.6	3.8	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)