

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: P973557

Luminaire Tested: FLR2-22-20-L835-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973557  
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: FLR2-22-20-L835-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

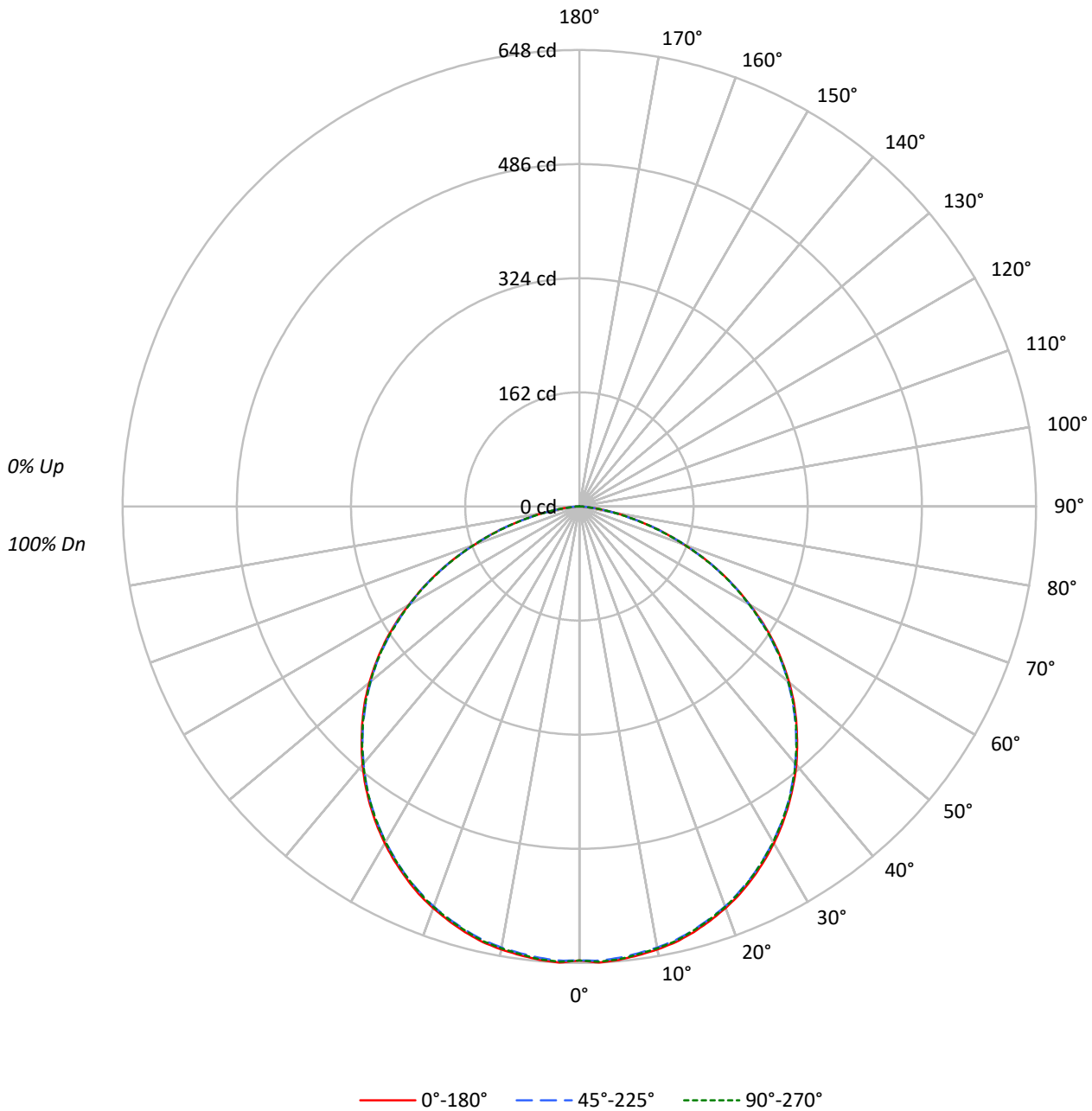
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1802.4 lumens  
Efficiency: N/A  
Efficacy: 119.4 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): 15.1  
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°	1734	1734	1734
5°	1745	1738	1743
10°	1745	1737	1741
15°	1743	1736	1738
20°	1737	1731	1733
25°	1728	1721	1722
30°	1716	1708	1710
35°	1700	1693	1695
40°	1682	1674	1675
45°	1657	1650	1653
50°	1628	1617	1620
55°	1582	1569	1574
60°	1504	1498	1498
65°	1405	1402	1397
70°	1243	1249	1246
75°	1047	1039	1030
80°	753	741	735
85°	392	392	380

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1657 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.0	3.4
10°-20°	175.5	9.7
20°-30°	266.7	14.8
30°-40°	322.4	17.9
40°-50°	334.6	18.6
50°-60°	299.2	16.6
60°-70°	217.5	12.1
70°-80°	107.0	5.9
80°-90°	18.6	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°	503.3	27.9
0°-40°	825.6	45.8
0°-60°	1459.4	81.0
0°-90°	1802.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1802.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	646	639	643	641	645	61
15°	626	619	623	621	624	177
25°	582	576	580	578	580	268
35°	518	514	516	516	516	324
45°	436	434	434	434	434	336
55°	337	335	334	335	336	301
65°	221	221	220	220	219	218
75°	101	102	100	100	99	107
85°	13	13	13	13	12	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	644.5	644.5	644.5	644.5	644.5
2.5°	648.1	640.6	645.3	642.5	646.9
5°	646.1	638.6	643.3	641.0	645.3
7.5°	642.5	635.0	639.8	637.4	641.0
10°	638.6	630.6	635.8	633.4	637.0
12.5°	633.4	625.8	630.6	628.6	631.8
15°	625.8	618.7	623.0	621.4	623.8
17.5°	616.7	609.5	613.9	612.7	614.7
20°	606.7	599.9	604.3	603.1	605.1
22.5°	595.6	588.4	592.4	591.6	593.2
25°	582.0	575.7	579.6	578.4	580.0
27.5°	567.7	561.7	564.9	564.9	565.7
30°	552.2	546.6	549.8	549.8	550.2
32.5°	535.5	531.1	533.1	533.5	533.5
35°	517.5	514.0	515.5	515.9	515.9
37.5°	498.8	495.2	496.4	497.2	497.2
40°	478.9	475.7	476.5	477.3	476.9
42.5°	457.4	455.0	455.4	456.2	456.2
45°	435.5	433.5	433.5	434.3	434.3
47.5°	413.2	411.2	410.4	411.2	411.2
50°	388.9	387.0	386.2	387.0	387.0
52.5°	363.5	361.5	361.5	361.5	361.9
55°	337.2	335.2	334.4	335.2	335.6
57.5°	309.3	308.5	307.3	307.7	306.5
60°	279.5	279.5	278.3	279.1	278.3
62.5°	250.4	251.2	250.0	250.0	249.2
65°	220.6	221.3	220.2	220.2	219.4
67.5°	189.9	191.1	189.5	189.5	188.7
70°	158.0	160.4	158.8	159.2	158.4
72.5°	129.4	130.6	129.0	129.0	128.2
75°	100.7	101.5	99.9	100.3	99.1
77.5°	72.5	73.6	72.1	72.5	72.1
80°	48.6	49.0	47.8	48.2	47.4
82.5°	28.3	28.7	28.3	27.9	27.5
85°	12.7	13.1	12.7	12.7	12.3
87.5°	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)