

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: P974051

Luminaire Tested: FLR2-22-20HE-L950-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974051  
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: FLR2-22-20HE-L950-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

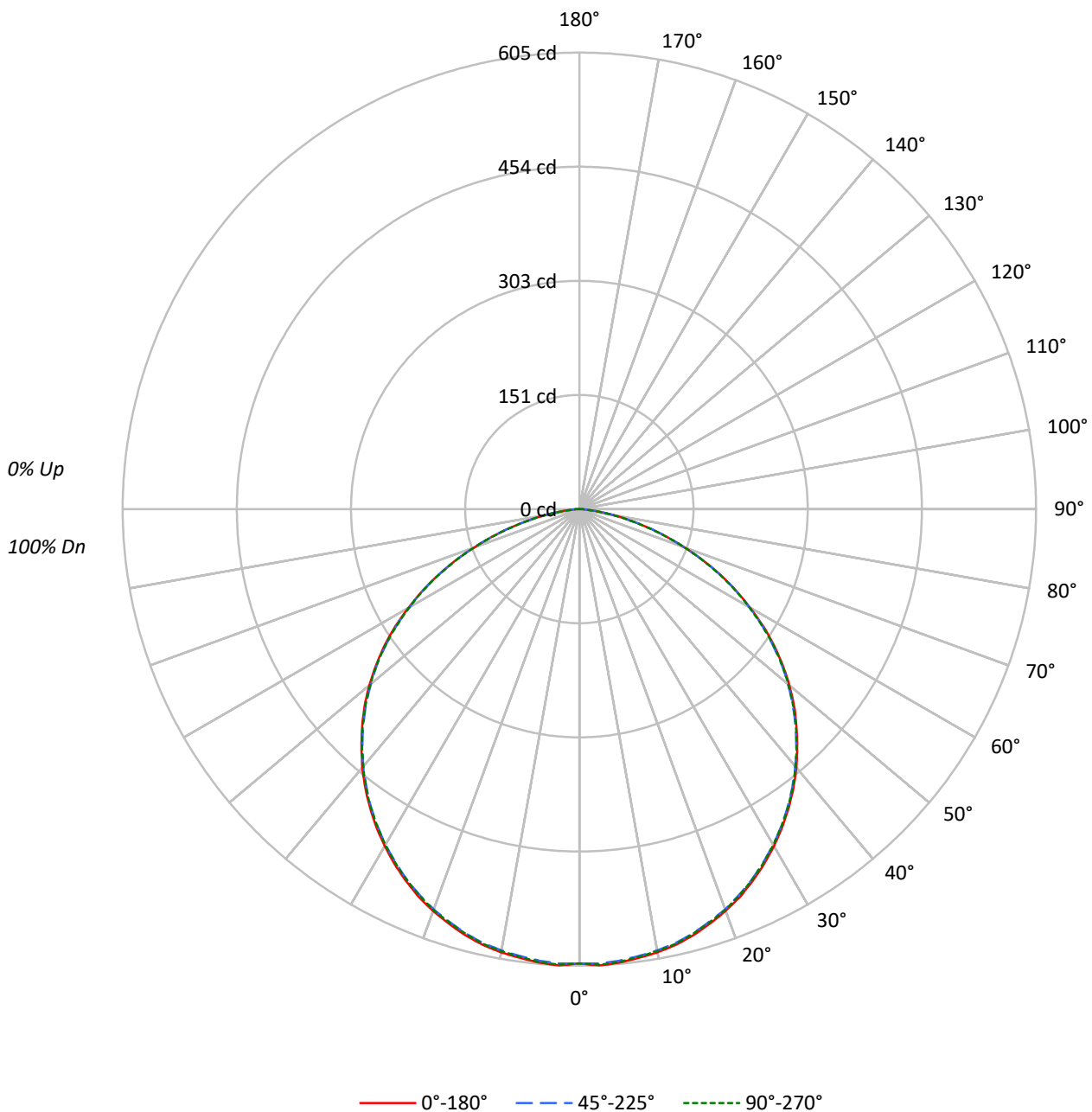
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1683.4 lumens  
Efficiency: N/A  
Efficacy: 113.7 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): 14.8  
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°	1620	1620	1620
5°	1630	1623	1628
10°	1630	1623	1626
15°	1628	1621	1623
20°	1623	1616	1619
25°	1614	1608	1608
30°	1602	1596	1597
35°	1588	1582	1583
40°	1571	1564	1565
45°	1548	1541	1544
50°	1521	1510	1513
55°	1477	1465	1470
60°	1405	1399	1399
65°	1312	1309	1305
70°	1161	1168	1164
75°	978	970	963
80°	704	691	685
85°	367	367	355

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1548 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.0	3.4
10°-20°	163.9	9.7
20°-30°	249.1	14.8
30°-40°	301.1	17.9
40°-50°	312.5	18.6
50°-60°	279.4	16.6
60°-70°	203.1	12.1
70°-80°	99.9	5.9
80°-90°	17.3	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°	470.0	27.9
0°-40°	771.1	45.8
0°-60°	1363.0	81.0
0°-90°	1683.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1683.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	603	596	601	599	603	57
15°	584	578	582	580	583	165
25°	544	538	541	540	542	251
35°	483	480	482	482	482	302
45°	407	405	405	406	406	314
55°	315	313	312	313	313	281
65°	206	207	206	206	205	203
75°	94	95	93	94	93	100
85°	12	12	12	12	12	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	602.0	602.0	602.0	602.0	602.0
2.5°	605.3	598.2	602.7	600.1	604.2
5°	603.4	596.4	600.8	598.6	602.7
7.5°	600.1	593.0	597.5	595.3	598.6
10°	596.4	588.9	593.8	591.5	594.9
12.5°	591.5	584.5	588.9	587.1	590.1
15°	584.5	577.8	581.9	580.4	582.6
17.5°	575.9	569.2	573.3	572.2	574.1
20°	566.6	560.3	564.4	563.3	565.2
22.5°	556.2	549.5	553.3	552.5	554.0
25°	543.6	537.6	541.4	540.2	541.7
27.5°	530.2	524.6	527.6	527.6	528.3
30°	515.7	510.5	513.5	513.5	513.8
32.5°	500.1	496.0	497.9	498.2	498.2
35°	483.4	480.0	481.5	481.9	481.9
37.5°	465.9	462.5	463.6	464.4	464.4
40°	447.3	444.3	445.1	445.8	445.4
42.5°	427.2	425.0	425.4	426.1	426.1
45°	406.8	404.9	404.9	405.6	405.6
47.5°	385.9	384.1	383.3	384.1	384.1
50°	363.3	361.4	360.7	361.4	361.4
52.5°	339.5	337.6	337.6	337.6	338.0
55°	314.9	313.1	312.3	313.1	313.4
57.5°	288.9	288.2	287.0	287.4	286.3
60°	261.0	261.0	259.9	260.6	259.9
62.5°	233.9	234.6	233.5	233.5	232.8
65°	206.0	206.7	205.6	205.6	204.9
67.5°	177.4	178.5	177.0	177.0	176.2
70°	147.6	149.8	148.4	148.7	148.0
72.5°	120.8	122.0	120.5	120.5	119.7
75°	94.1	94.8	93.3	93.7	92.6
77.5°	67.7	68.8	67.3	67.7	67.3
80°	45.4	45.7	44.6	45.0	44.2
82.5°	26.4	26.8	26.4	26.0	25.7
85°	11.9	12.3	11.9	11.9	11.5
87.5°	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)