

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: P974034

Luminaire Tested: FLR2-22-25HE-L950-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974034  
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: FLR2-22-25HE-L950-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

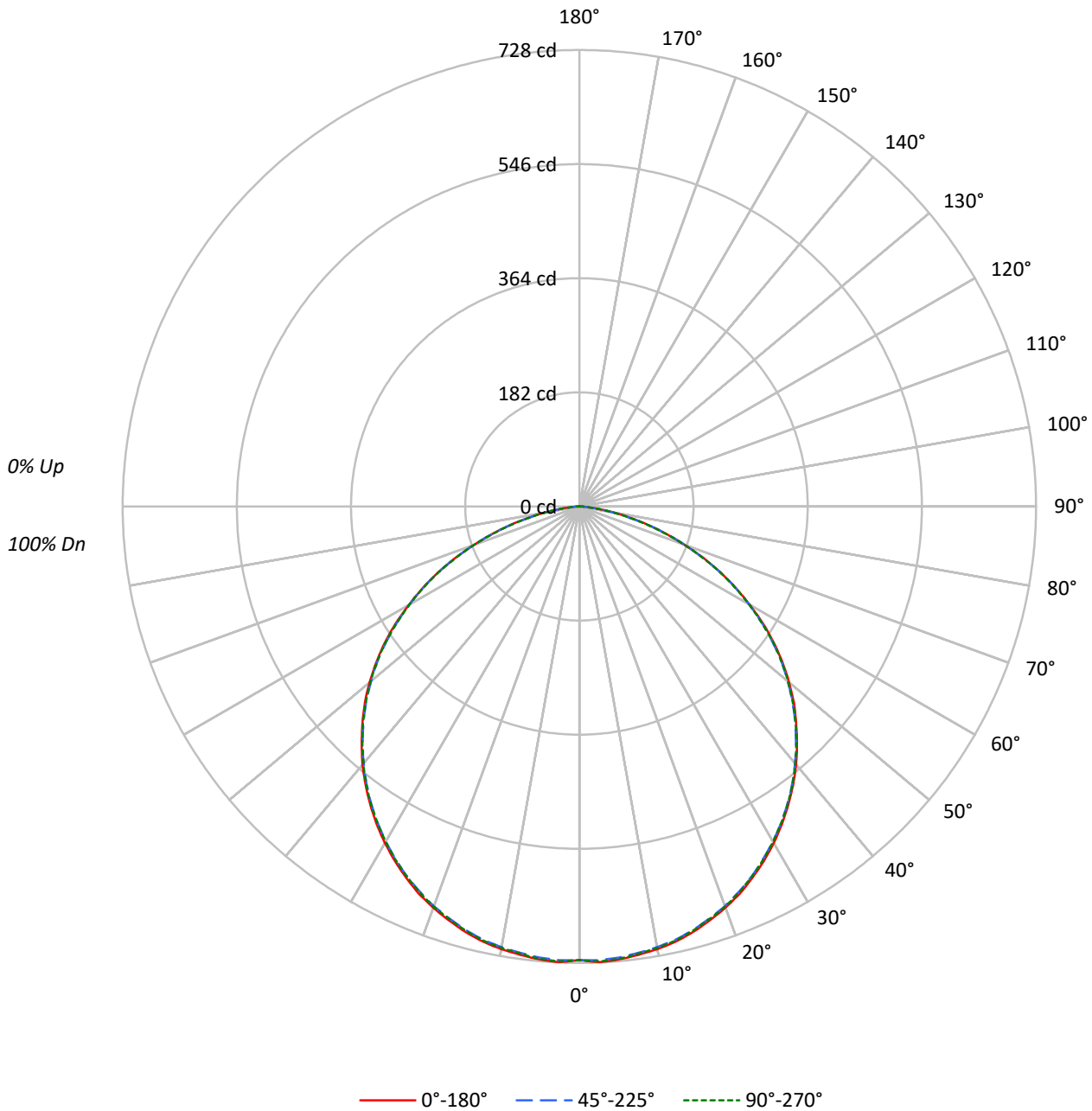
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2023.3 lumens  
Efficiency: N/A  
Efficacy: 105.4 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): 19.2  
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

TEST NUMBER: P974034  
CATALOG NUMBER: FLR2-22-25HE-L950-CP250

### Luminous Intensity Polar Plot





TEST NUMBER: P974034  
 CATALOG NUMBER: FLR2-22-25HE-L950-CP250

**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																				
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																				
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																				
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44																				
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39																				
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																				
8	61	47	39	33	59	47	39	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	40	34	29	27																				
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1947	1947	1947
5°	1959	1951	1957
10°	1959	1950	1954
15°	1957	1948	1951
20°	1950	1943	1945
25°	1940	1932	1933
30°	1926	1917	1919
35°	1908	1901	1903
40°	1888	1879	1881
45°	1861	1852	1855
50°	1828	1815	1819
55°	1776	1761	1767
60°	1688	1681	1681
65°	1577	1573	1568
70°	1396	1403	1400
75°	1176	1167	1157
80°	845	831	824
85°	442	442	429

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1861 cd/sqm



TEST NUMBER: P974034  
 CATALOG NUMBER: FLR2-22-25HE-L950-CP250

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.5	3.4
10°-20°	197.0	9.7
20°-30°	299.4	14.8
30°-40°	361.9	17.9
40°-50°	375.6	18.6
50°-60°	335.8	16.6
60°-70°	244.2	12.1
70°-80°	120.1	5.9
80°-90°	20.8	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°	564.9	27.9
0°-40°	926.8	45.8
0°-60°	1638.3	81.0
0°-90°	2023.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2023.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	725	717	722	720	724	69
15°	702	694	699	698	700	198
25°	653	646	651	649	651	301
35°	581	577	579	579	579	363
45°	489	487	487	488	488	377
55°	378	376	375	376	377	337
65°	248	248	247	247	246	244
75°	113	114	112	113	111	120
85°	14	15	14	14	14	21
90°	0	0	0	0	0	



TEST NUMBER: P974034  
 CATALOG NUMBER: FLR2-22-25HE-L950-CP250

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	723.5	723.5	723.5	723.5	723.5
2.5°	727.5	719.0	724.4	721.3	726.2
5°	725.3	716.8	722.2	719.5	724.4
7.5°	721.3	712.8	718.1	715.5	719.5
10°	716.8	707.9	713.7	711.0	715.0
12.5°	711.0	702.5	707.9	705.6	709.2
15°	702.5	694.5	699.4	697.6	700.3
17.5°	692.2	684.2	689.1	687.7	690.0
20°	681.0	673.4	678.4	677.0	679.3
22.5°	668.5	660.5	665.0	664.1	665.9
25°	653.3	646.2	650.7	649.3	651.1
27.5°	637.3	630.5	634.1	634.1	635.0
30°	619.8	613.6	617.1	617.1	617.6
32.5°	601.1	596.1	598.4	598.8	598.8
35°	580.9	576.9	578.7	579.2	579.2
37.5°	559.9	555.9	557.3	558.2	558.2
40°	537.6	534.0	534.9	535.8	535.4
42.5°	513.5	510.8	511.2	512.1	512.1
45°	488.9	486.7	486.7	487.5	487.5
47.5°	463.9	461.6	460.7	461.6	461.6
50°	436.6	434.4	433.5	434.4	434.4
52.5°	408.0	405.8	405.8	405.8	406.2
55°	378.5	376.3	375.4	376.3	376.7
57.5°	347.2	346.3	345.0	345.4	344.1
60°	313.7	313.7	312.4	313.3	312.4
62.5°	281.1	282.0	280.6	280.6	279.7
65°	247.6	248.5	247.1	247.1	246.2
67.5°	213.2	214.5	212.7	212.7	211.8
70°	177.4	180.1	178.3	178.8	177.9
72.5°	145.2	146.6	144.8	144.8	143.9
75°	113.1	114.0	112.2	112.6	111.3
77.5°	81.3	82.7	80.9	81.3	80.9
80°	54.5	55.0	53.6	54.1	53.2
82.5°	31.7	32.2	31.7	31.3	30.8
85°	14.3	14.7	14.3	14.3	13.9
87.5°	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)