

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: P973663

Luminaire Tested: FLR2-22-35-L940-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973663  
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: FLR2-22-35-L940-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

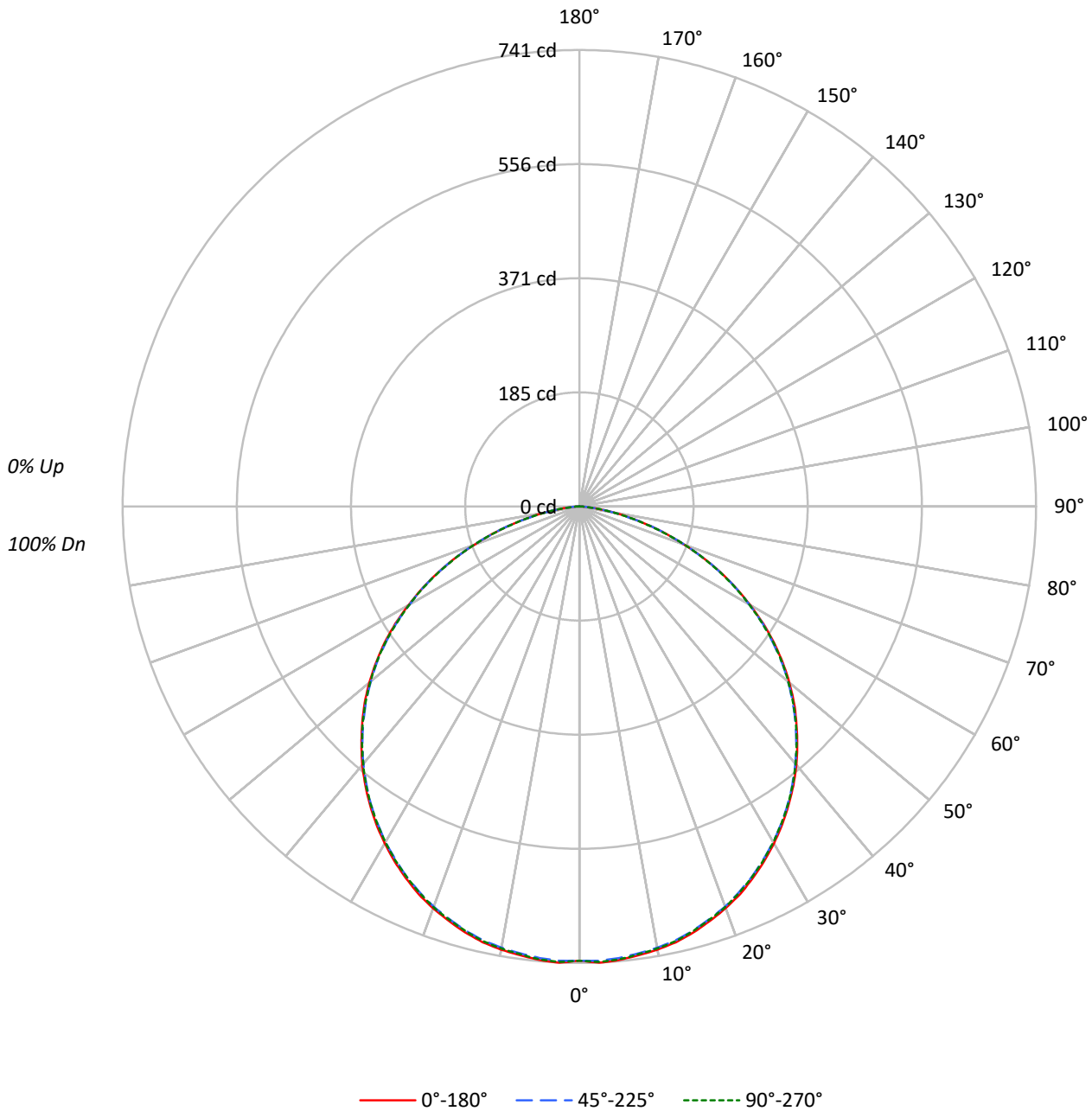
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2061.9 lumens  
Efficiency: N/A  
Efficacy: 73.9 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): 27.9  
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: P973663  
CATALOG NUMBER: FLR2-22-35-L940-CA125

### Luminous Intensity Polar Plot





TEST NUMBER: P973663  
 CATALOG NUMBER: FLR2-22-35-L940-CA125

**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	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°	1984	1984	1984
5°	1996	1988	1994
10°	1996	1987	1991
15°	1994	1986	1988
20°	1987	1980	1982
25°	1977	1969	1970
30°	1963	1954	1956
35°	1945	1938	1939
40°	1925	1915	1917
45°	1896	1887	1891
50°	1863	1849	1853
55°	1810	1795	1801
60°	1721	1713	1713
65°	1606	1603	1598
70°	1423	1430	1426
75°	1198	1188	1179
80°	862	846	840
85°	451	451	435

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1896 cd/sqm



TEST NUMBER: P973663  
 CATALOG NUMBER: FLR2-22-35-L940-CA125

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.8	3.4
10°-20°	200.8	9.7
20°-30°	305.1	14.8
30°-40°	368.8	17.9
40°-50°	382.8	18.6
50°-60°	342.2	16.6
60°-70°	248.8	12.1
70°-80°	122.4	5.9
80°-90°	21.2	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°	575.7	27.9
0°-40°	944.5	45.8
0°-60°	1669.5	81.0
0°-90°	2061.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2061.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	739	730	736	733	738	70
15°	716	708	713	711	714	202
25°	666	658	663	662	664	307
35°	592	588	590	590	590	370
45°	498	496	496	497	497	384
55°	386	384	382	384	384	344
65°	252	253	252	252	251	249
75°	115	116	114	115	113	122
85°	15	15	15	15	14	21
90°	0	0	0	0	0	



TEST NUMBER: P973663  
 CATALOG NUMBER: FLR2-22-35-L940-CA125

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	737.3	737.3	737.3	737.3	737.3
2.5°	741.4	732.7	738.2	735.0	740.0
5°	739.1	730.5	735.9	733.2	738.2
7.5°	735.0	726.4	731.8	729.1	733.2
10°	730.5	721.4	727.3	724.6	728.7
12.5°	724.6	715.9	721.4	719.1	722.7
15°	715.9	707.7	712.7	710.9	713.6
17.5°	705.4	697.2	702.2	700.9	703.1
20°	694.0	686.3	691.3	689.9	692.2
22.5°	681.3	673.1	677.6	676.7	678.6
25°	665.8	658.5	663.1	661.7	663.5
27.5°	649.4	642.6	646.2	646.2	647.1
30°	631.6	625.3	628.9	628.9	629.4
32.5°	612.5	607.5	609.8	610.2	610.2
35°	592.0	587.9	589.8	590.2	590.2
37.5°	570.6	566.5	567.9	568.8	568.8
40°	547.9	544.2	545.1	546.0	545.6
42.5°	523.3	520.5	521.0	521.9	521.9
45°	498.2	495.9	495.9	496.8	496.8
47.5°	472.7	470.4	469.5	470.4	470.4
50°	444.9	442.7	441.7	442.7	442.7
52.5°	415.8	413.5	413.5	413.5	414.0
55°	385.7	383.5	382.5	383.5	383.9
57.5°	353.9	352.9	351.6	352.0	350.7
60°	319.7	319.7	318.3	319.2	318.3
62.5°	286.5	287.4	286.0	286.0	285.1
65°	252.3	253.2	251.8	251.8	250.9
67.5°	217.2	218.6	216.8	216.8	215.9
70°	180.8	183.5	181.7	182.2	181.3
72.5°	148.0	149.4	147.6	147.6	146.6
75°	115.2	116.1	114.3	114.8	113.4
77.5°	82.9	84.3	82.4	82.9	82.4
80°	55.6	56.0	54.6	55.1	54.2
82.5°	32.3	32.8	32.3	31.9	31.4
85°	14.6	15.0	14.6	14.6	14.1
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)