

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: P973708

Luminaire Tested: FLR2-22-45-L950-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973708  
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: FLR2-22-45-L950-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

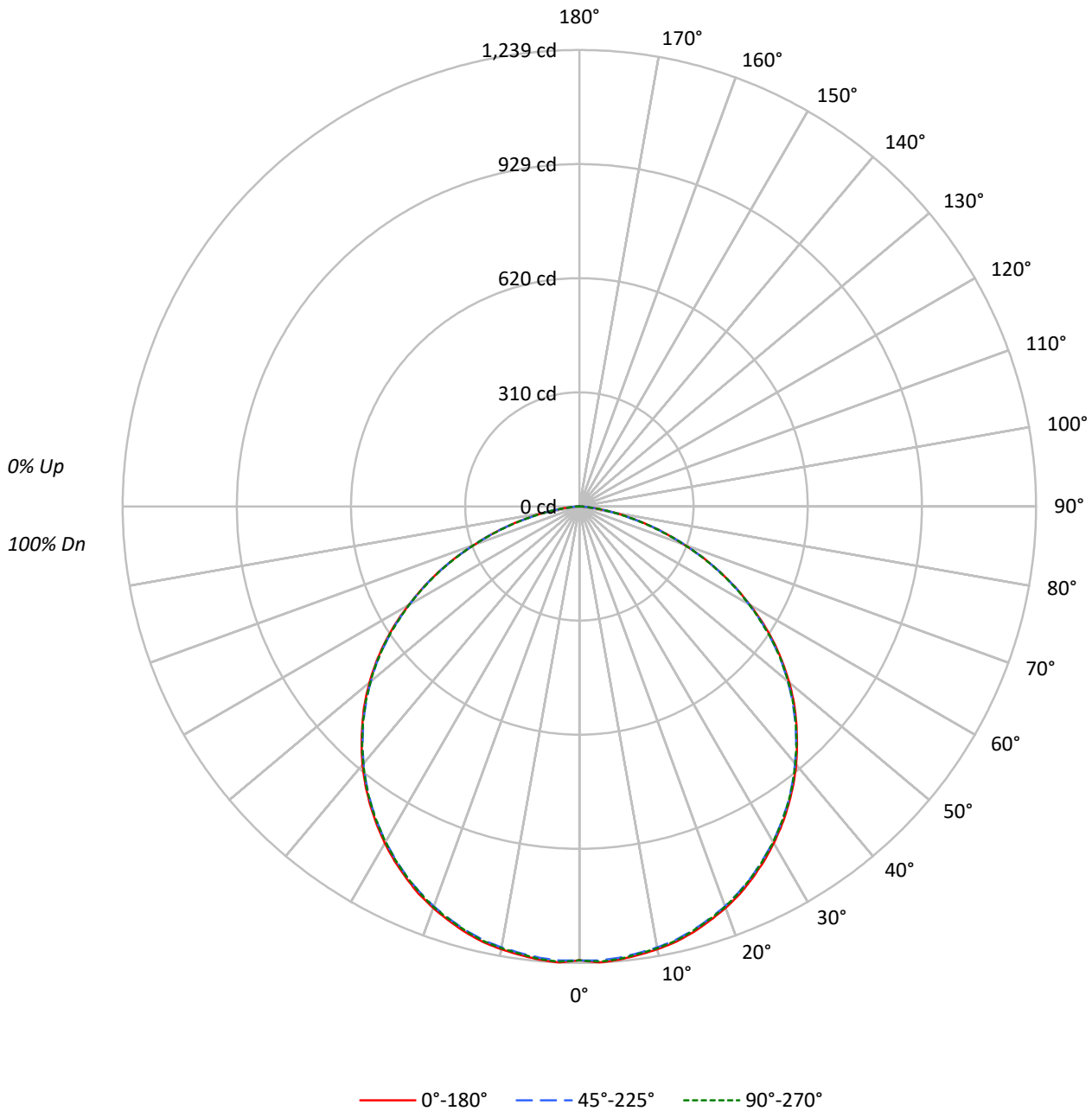
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3445.2 lumens  
Efficiency: N/A  
Efficacy: 95.4 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): 36.1  
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				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°	3315	3315	3315
5°	3336	3322	3332
10°	3335	3321	3327
15°	3333	3318	3322
20°	3321	3308	3312
25°	3303	3290	3292
30°	3279	3265	3268
35°	3250	3237	3240
40°	3216	3199	3202
45°	3168	3154	3159
50°	3112	3090	3096
55°	3024	2999	3010
60°	2875	2863	2863
65°	2684	2679	2670
70°	2377	2389	2382
75°	2001	1986	1970
80°	1438	1415	1404
85°	750	750	729

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3168 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.7	3.4
10°-20°	335.5	9.7
20°-30°	509.8	14.8
30°-40°	616.2	17.9
40°-50°	639.6	18.6
50°-60°	571.8	16.6
60°-70°	415.7	12.1
70°-80°	204.4	5.9
80°-90°	35.5	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°	961.9	27.9
0°-40°	1578.1	45.8
0°-60°	2789.5	81.0
0°-90°	3445.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3445.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1235	1220	1230	1225	1234	117
15°	1196	1182	1191	1188	1192	338
25°	1112	1100	1108	1106	1109	513
35°	989	982	985	986	986	619
45°	832	829	829	830	830	642
55°	644	641	639	641	642	574
65°	422	423	421	421	419	416
75°	192	194	191	192	190	204
85°	24	25	24	24	24	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1231.9	1231.9	1231.9	1231.9	1231.9
2.5°	1238.8	1224.3	1233.5	1228.1	1236.5
5°	1235.0	1220.5	1229.7	1225.1	1233.5
7.5°	1228.1	1213.7	1222.8	1218.2	1225.1
10°	1220.5	1205.3	1215.2	1210.6	1217.5
12.5°	1210.6	1196.2	1205.3	1201.5	1207.6
15°	1196.2	1182.5	1190.9	1187.8	1192.4
17.5°	1178.7	1165.0	1173.4	1171.1	1174.9
20°	1159.7	1146.7	1155.1	1152.8	1156.6
22.5°	1138.3	1124.7	1132.3	1130.7	1133.8
25°	1112.5	1100.3	1107.9	1105.6	1108.7
27.5°	1085.1	1073.7	1079.8	1079.8	1081.3
30°	1055.4	1044.8	1050.8	1050.8	1051.6
32.5°	1023.4	1015.1	1018.9	1019.6	1019.6
35°	989.2	982.4	985.4	986.2	986.2
37.5°	953.4	946.6	948.9	950.4	950.4
40°	915.4	909.3	910.8	912.4	911.6
42.5°	874.3	869.7	870.5	872.0	872.0
45°	832.5	828.7	828.7	830.2	830.2
47.5°	789.8	786.0	784.5	786.0	786.0
50°	743.4	739.6	738.1	739.6	739.6
52.5°	694.7	690.9	690.9	690.9	691.7
55°	644.5	640.7	639.2	640.7	641.5
57.5°	591.2	589.7	587.4	588.2	585.9
60°	534.2	534.2	531.9	533.4	531.9
62.5°	478.6	480.1	477.9	477.9	476.3
65°	421.6	423.1	420.8	420.8	419.3
67.5°	363.0	365.2	362.2	362.2	360.7
70°	302.1	306.7	303.6	304.4	302.8
72.5°	247.3	249.6	246.5	246.5	245.0
75°	192.5	194.0	191.0	191.8	189.5
77.5°	138.5	140.8	137.7	138.5	137.7
80°	92.8	93.6	91.3	92.1	90.6
82.5°	54.0	54.8	54.0	53.3	52.5
85°	24.3	25.1	24.3	24.3	23.6
87.5°	6.1	6.1	6.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)