

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: P974090

Luminaire Tested: FLR2-24-30-L830-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974090  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-24-30-L830-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-30-L830-CP375  
Ballast/Driver: -

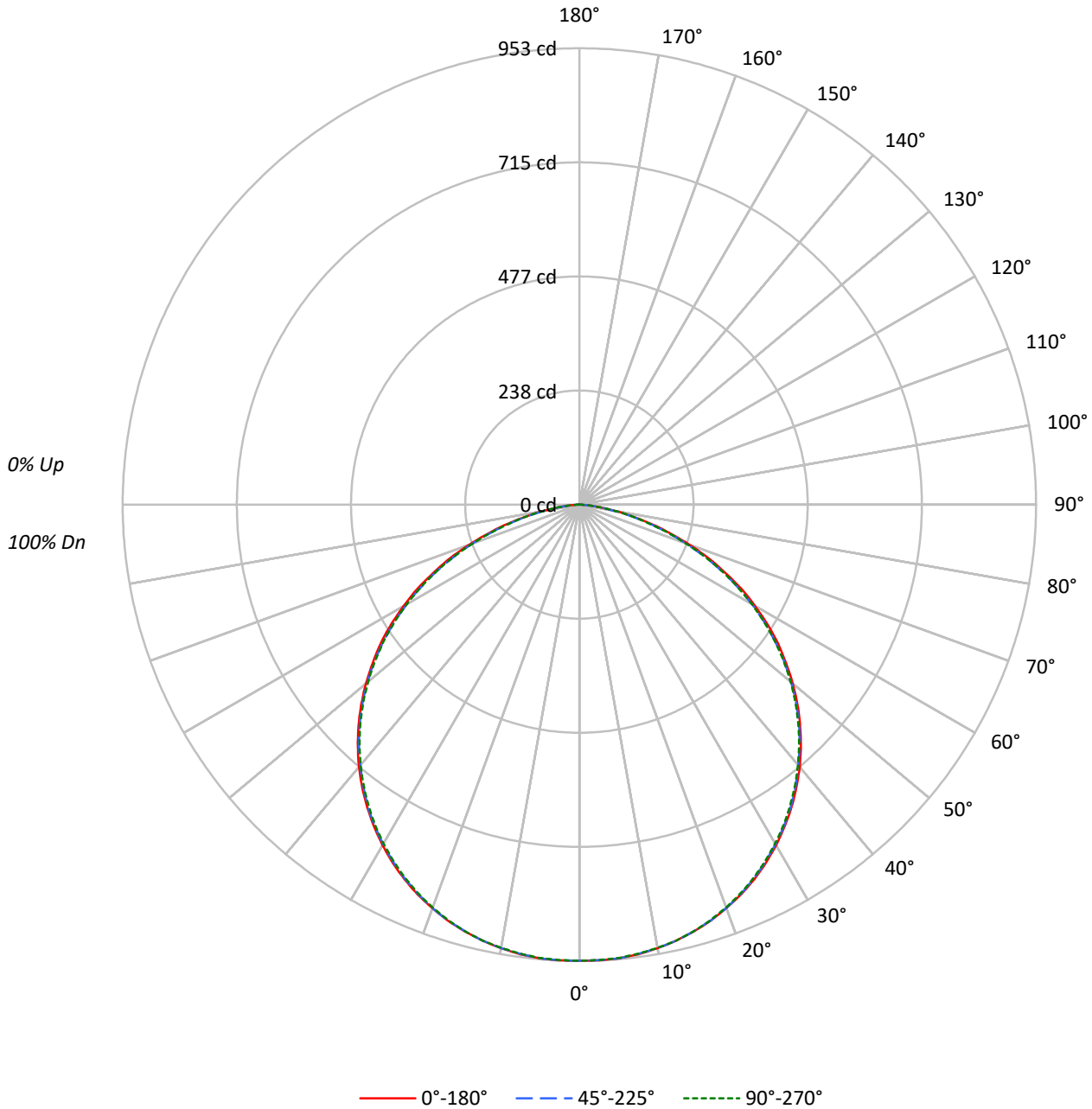
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2692.3 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.7  
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	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	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

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

	0°	45°	90°
0°	1282	1282	1282
5°	1284	1284	1283
10°	1285	1285	1284
15°	1285	1285	1285
20°	1284	1284	1282
25°	1282	1279	1277
30°	1276	1272	1270
35°	1268	1264	1260
40°	1257	1249	1247
45°	1240	1233	1229
50°	1217	1208	1204
55°	1188	1171	1170
60°	1139	1118	1118
65°	1065	1040	1044
70°	959	929	926
75°	805	773	769
80°	588	559	583
85°	332	306	312

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1240 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.4	3.4
10°-20°	260.5	9.7
20°-30°	397.2	14.8
30°-40°	481.2	17.9
40°-50°	499.8	18.6
50°-60°	447.1	16.6
60°-70°	325.9	12.1
70°-80°	161.4	6.0
80°-90°	28.8	1.1
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°	748.1	27.8
0°-40°	1229.2	45.7
0°-60°	2176.2	80.8
0°-90°	2692.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2692.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	951	951	951	951	950	90
15°	923	922	922	923	922	261
25°	863	862	862	861	860	398
35°	772	771	770	768	767	483
45°	652	650	648	647	646	502
55°	506	503	499	499	499	451
65°	335	332	327	328	328	332
75°	155	152	149	151	148	165
85°	22	20	20	20	20	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	952.6	952.6	952.6	952.6	952.6
2.5°	952.6	952.2	952.2	952.6	951.9
5°	950.9	951.2	950.9	950.9	950.2
7.5°	947.1	946.8	946.4	946.8	945.7
10°	940.6	940.6	940.3	940.6	939.9
12.5°	932.8	932.8	932.8	933.1	932.8
15°	922.8	922.5	922.5	923.2	922.5
17.5°	911.2	910.9	910.9	910.5	909.9
20°	896.9	896.9	896.5	896.2	895.2
22.5°	881.5	881.1	880.1	880.1	878.8
25°	863.4	862.3	861.7	861.3	860.3
27.5°	843.5	842.2	841.2	840.5	839.4
30°	821.3	820.0	818.9	817.9	817.2
32.5°	797.4	796.7	795.0	794.7	793.3
35°	771.8	770.7	769.7	768.4	767.0
37.5°	744.4	743.4	741.0	740.3	739.3
40°	715.4	714.0	710.9	710.9	709.9
42.5°	684.3	682.9	680.9	679.5	678.8
45°	651.8	650.4	648.0	646.7	646.0
47.5°	617.3	616.3	613.5	612.5	611.5
50°	581.4	580.0	576.9	576.3	575.2
52.5°	543.8	543.1	539.0	538.7	537.6
55°	506.5	502.8	499.4	499.4	498.7
57.5°	465.5	462.8	458.3	458.3	457.7
60°	423.1	420.7	415.6	416.3	415.6
62.5°	381.8	376.7	371.9	373.9	372.2
65°	334.6	331.9	326.8	328.1	327.8
67.5°	291.5	286.4	281.6	284.4	283.0
70°	243.7	241.0	236.2	238.9	235.5
72.5°	198.6	196.2	191.4	194.5	191.1
75°	154.8	152.4	148.7	151.4	148.0
77.5°	113.5	111.8	108.3	111.1	111.8
80°	75.9	73.8	72.1	74.5	75.2
82.5°	44.4	43.1	42.4	42.7	44.4
85°	21.5	19.8	19.8	20.2	20.2
87.5°	5.8	5.1	5.8	6.2	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)