

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: P974235

Luminaire Tested: FLR2-24-35-L935-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974235  
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: FLR2-24-35-L935-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-35-L935-CP125  
Ballast/Driver: -

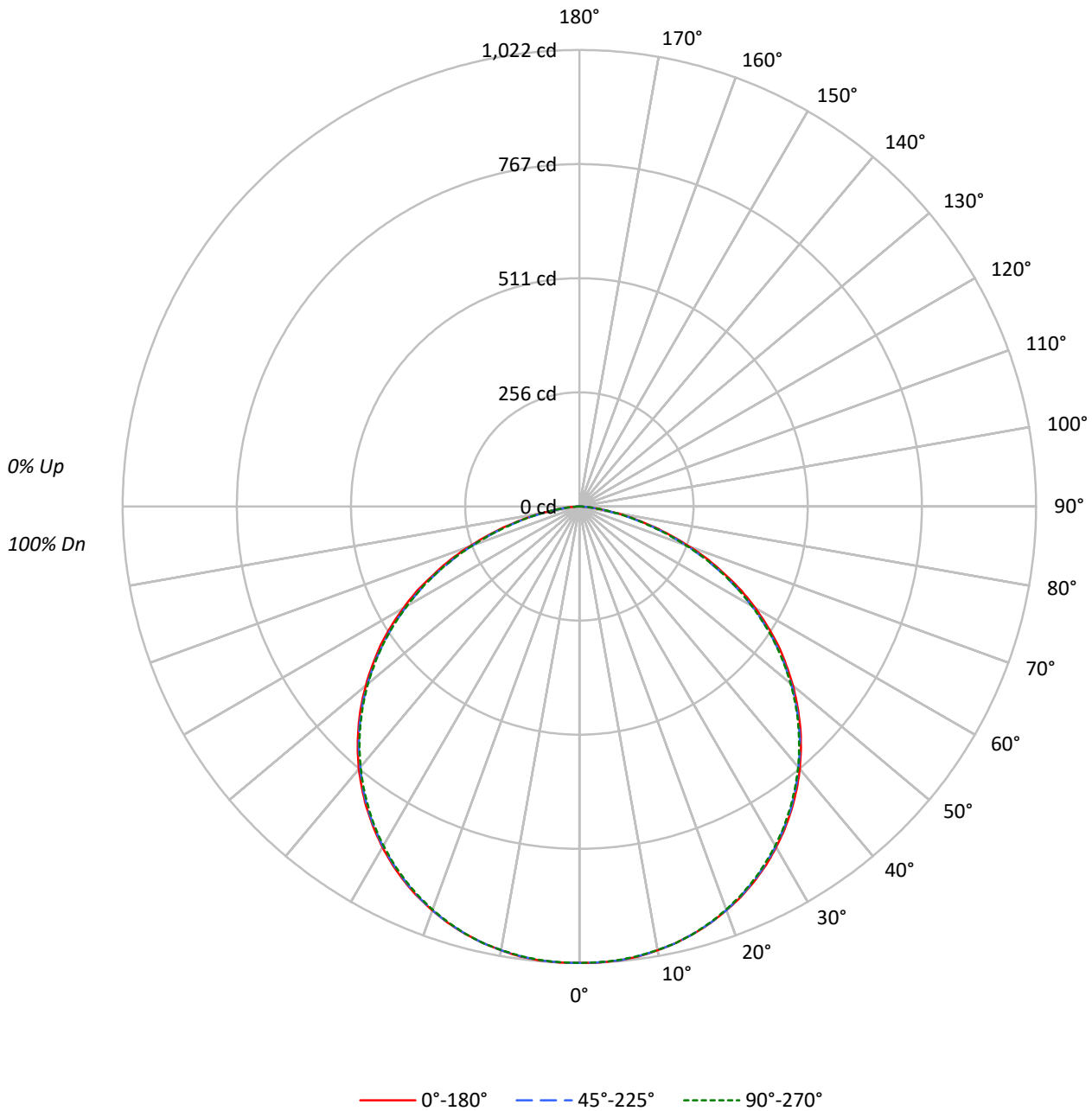
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2888.6 lumens  
Efficiency: N/A  
Efficacy: 101.7 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): 28.4  
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°	1375	1375	1375
5°	1378	1378	1377
10°	1379	1378	1378
15°	1379	1379	1379
20°	1378	1377	1375
25°	1375	1372	1370
30°	1369	1365	1362
35°	1360	1356	1352
40°	1348	1340	1338
45°	1331	1323	1319
50°	1306	1296	1292
55°	1275	1257	1255
60°	1222	1200	1200
65°	1143	1116	1120
70°	1029	997	994
75°	863	829	826
80°	631	600	625
85°	357	329	333

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1331 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.0	3.4
10°-20°	279.5	9.7
20°-30°	426.1	14.8
30°-40°	516.3	17.9
40°-50°	536.3	18.6
50°-60°	479.7	16.6
60°-70°	349.6	12.1
70°-80°	173.2	6.0
80°-90°	30.9	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°	802.6	27.8
0°-40°	1318.9	45.7
0°-60°	2334.9	80.8
0°-90°	2888.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2888.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1020	1021	1020	1020	1020	97
15°	990	990	990	990	990	280
25°	926	925	924	924	923	427
35°	828	827	826	824	823	518
45°	699	698	695	694	693	539
55°	544	539	536	536	535	484
65°	359	356	351	352	352	356
75°	166	164	160	162	159	177
85°	23	21	21	22	22	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1022.0	1022.0	1022.0	1022.0	1022.0
2.5°	1022.0	1021.7	1021.7	1022.0	1021.3
5°	1020.2	1020.6	1020.2	1020.2	1019.5
7.5°	1016.2	1015.8	1015.4	1015.8	1014.7
10°	1009.2	1009.2	1008.8	1009.2	1008.5
12.5°	1000.8	1000.8	1000.8	1001.1	1000.8
15°	990.1	989.8	989.8	990.5	989.8
17.5°	977.7	977.3	977.3	976.9	976.2
20°	962.3	962.3	961.9	961.5	960.4
22.5°	945.8	945.4	944.3	944.3	942.8
25°	926.3	925.2	924.5	924.1	923.0
27.5°	905.1	903.6	902.5	901.8	900.7
30°	881.2	879.8	878.7	877.6	876.8
32.5°	855.5	854.8	853.0	852.6	851.1
35°	828.0	826.9	825.8	824.4	822.9
37.5°	798.7	797.6	795.0	794.3	793.2
40°	767.5	766.1	762.8	762.8	761.7
42.5°	734.2	732.7	730.5	729.0	728.3
45°	699.3	697.9	695.3	693.8	693.1
47.5°	662.3	661.2	658.3	657.2	656.1
50°	623.8	622.3	619.0	618.3	617.2
52.5°	583.4	582.7	578.3	577.9	576.8
55°	543.5	539.4	535.8	535.8	535.0
57.5°	499.5	496.5	491.8	491.8	491.0
60°	454.0	451.4	445.9	446.7	445.9
62.5°	409.6	404.1	399.0	401.2	399.4
65°	359.0	356.1	350.6	352.0	351.7
67.5°	312.8	307.3	302.2	305.1	303.6
70°	261.5	258.5	253.4	256.3	252.7
72.5°	213.1	210.5	205.4	208.7	205.0
75°	166.1	163.6	159.5	162.5	158.8
77.5°	121.7	119.9	116.2	119.2	119.9
80°	81.4	79.2	77.4	79.9	80.7
82.5°	47.7	46.2	45.5	45.8	47.7
85°	23.1	21.3	21.3	21.6	21.6
87.5°	6.2	5.5	6.2	6.6	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)