

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: P974483

Luminaire Tested: FLR2-24-35-L950-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974483  
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-L950-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-35-L950-CP375  
Ballast/Driver: -

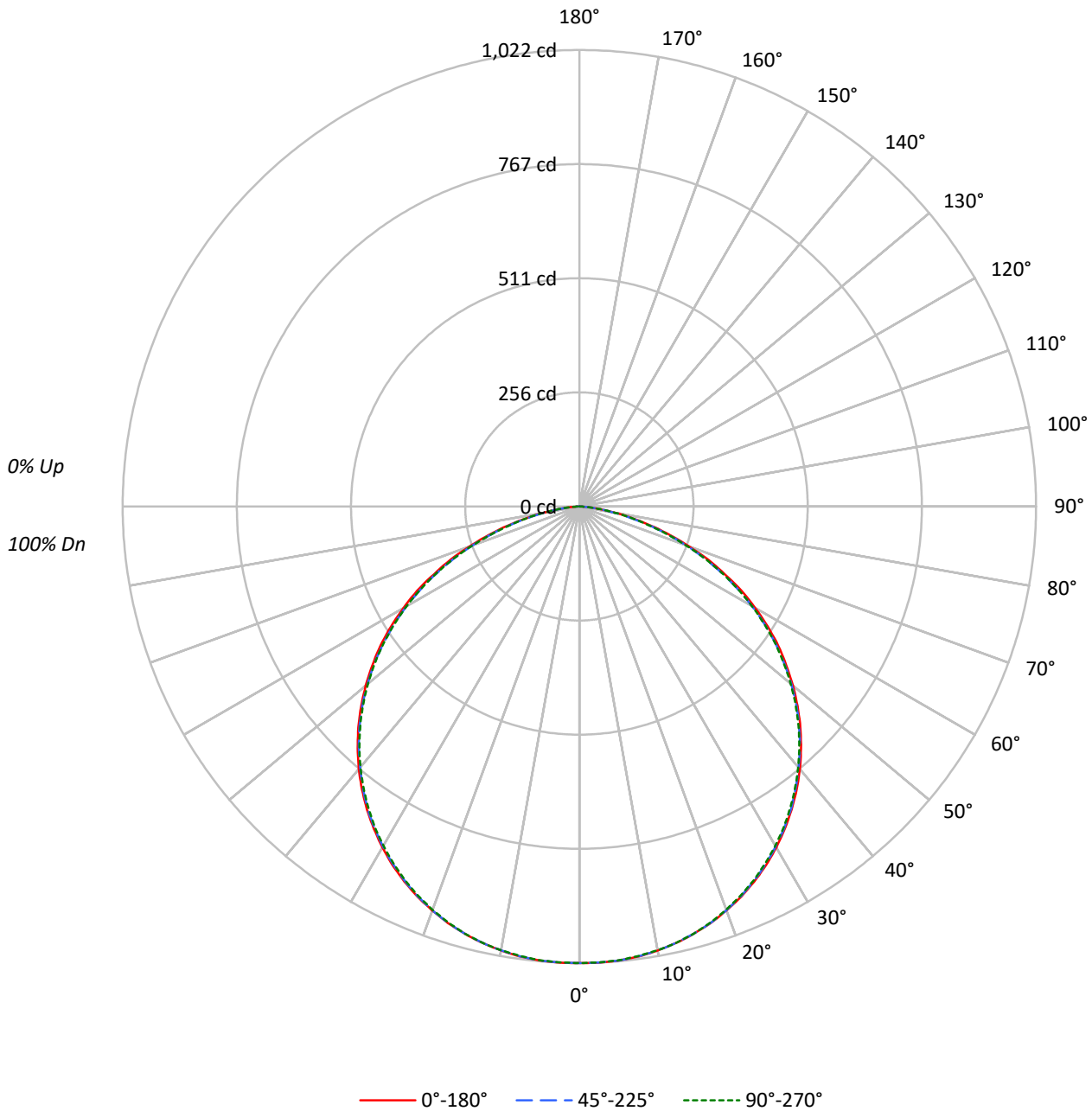
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2889.5 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										
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					100															
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71					71															
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60															
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44															
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38					38															
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30					30															
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27					27															
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25					25															

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

	0°	45°	90°
0°	1376	1376	1376
5°	1378	1378	1377
10°	1379	1379	1378
15°	1380	1379	1379
20°	1378	1378	1376
25°	1376	1373	1371
30°	1370	1365	1363
35°	1361	1357	1352
40°	1349	1340	1338
45°	1331	1323	1319
50°	1306	1296	1292
55°	1275	1257	1255
60°	1222	1200	1200
65°	1143	1117	1120
70°	1029	997	994
75°	864	830	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°	279.6	9.7
20°-30°	426.2	14.8
30°-40°	516.4	17.9
40°-50°	536.4	18.6
50°-60°	479.9	16.6
60°-70°	349.8	12.1
70°-80°	173.2	6.0
80°-90°	31.0	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°	802.9	27.8
0°-40°	1319.3	45.7
0°-60°	2335.6	80.8
0°-90°	2889.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2889.5	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	991	990	280
25°	927	926	925	924	923	427
35°	828	827	826	825	823	518
45°	700	698	696	694	693	539
55°	544	540	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°	1022.4	1022.4	1022.4	1022.4	1022.4
2.5°	1022.4	1022.0	1022.0	1022.4	1021.6
5°	1020.5	1020.9	1020.5	1020.5	1019.8
7.5°	1016.5	1016.1	1015.8	1016.1	1015.0
10°	1009.5	1009.5	1009.2	1009.5	1008.8
12.5°	1001.1	1001.1	1001.1	1001.5	1001.1
15°	990.5	990.1	990.1	990.8	990.1
17.5°	978.0	977.6	977.6	977.2	976.5
20°	962.6	962.6	962.2	961.8	960.7
22.5°	946.1	945.7	944.6	944.6	943.1
25°	926.6	925.5	924.8	924.4	923.3
27.5°	905.3	903.9	902.8	902.0	900.9
30°	881.5	880.0	878.9	877.8	877.1
32.5°	855.8	855.1	853.3	852.9	851.4
35°	828.3	827.2	826.1	824.6	823.2
37.5°	799.0	797.9	795.3	794.6	793.5
40°	767.8	766.3	763.0	763.0	761.9
42.5°	734.4	732.9	730.7	729.3	728.5
45°	699.6	698.1	695.5	694.1	693.3
47.5°	662.5	661.4	658.5	657.4	656.3
50°	624.0	622.5	619.2	618.5	617.4
52.5°	583.6	582.9	578.5	578.1	577.0
55°	543.6	539.6	535.9	535.9	535.2
57.5°	499.6	496.7	491.9	491.9	491.2
60°	454.1	451.6	446.1	446.8	446.1
62.5°	409.8	404.3	399.1	401.3	399.5
65°	359.1	356.2	350.7	352.2	351.8
67.5°	312.9	307.4	302.3	305.2	303.7
70°	261.6	258.6	253.5	256.4	252.7
72.5°	213.1	210.6	205.4	208.7	205.1
75°	166.2	163.6	159.6	162.5	158.8
77.5°	121.8	120.0	116.3	119.2	120.0
80°	81.4	79.2	77.4	80.0	80.7
82.5°	47.7	46.2	45.5	45.9	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)