

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: P974139

Luminaire Tested: FLR2-24-35-L930-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974139  
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-L930-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-35-L930-CP250  
Ballast/Driver: -

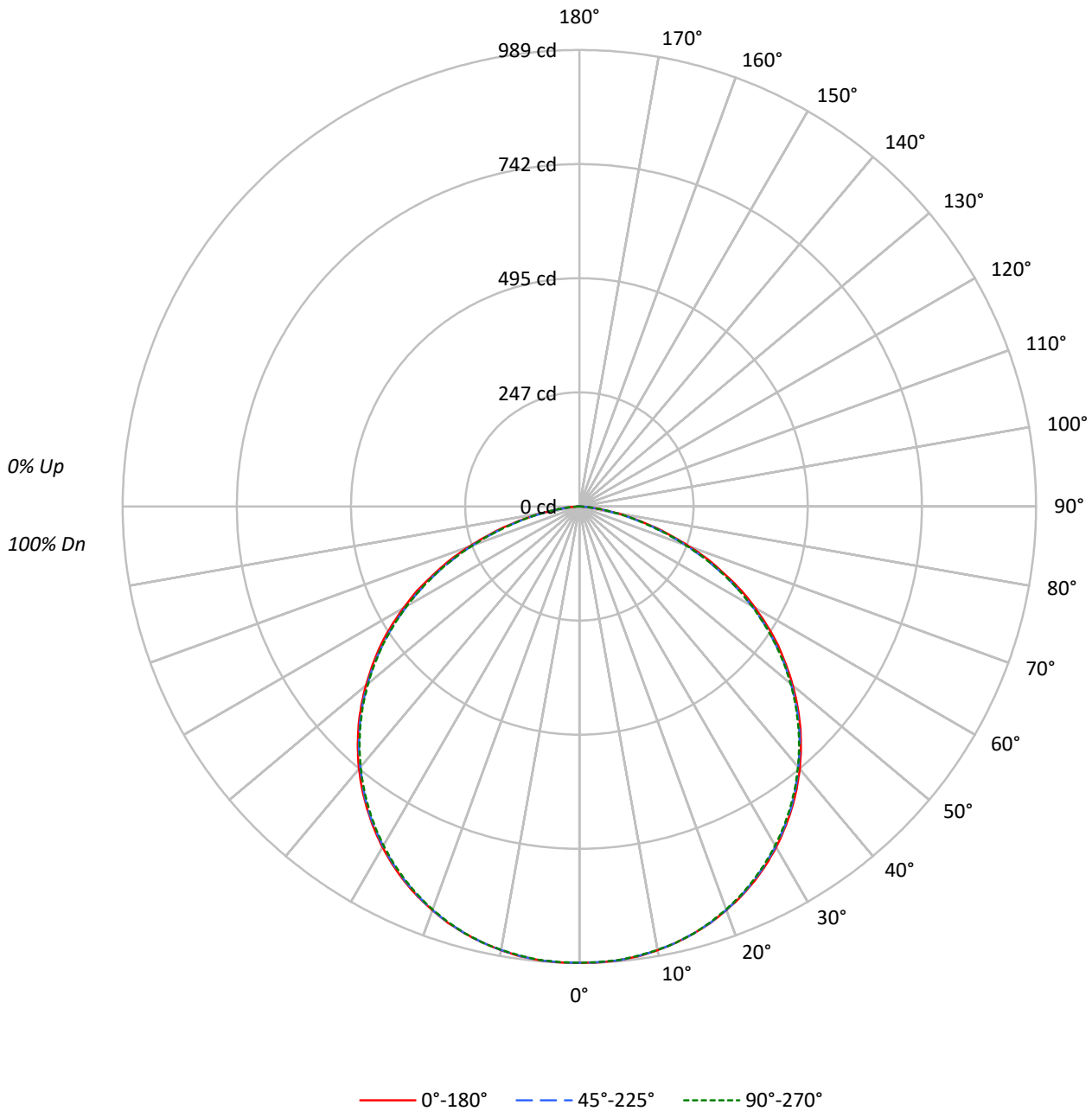
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2794.4 lumens  
Efficiency: N/A  
Efficacy: 98.4 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°	1330	1330	1330
5°	1333	1333	1332
10°	1334	1333	1333
15°	1334	1334	1334
20°	1333	1332	1330
25°	1330	1328	1326
30°	1324	1321	1318
35°	1316	1312	1308
40°	1304	1296	1294
45°	1287	1280	1276
50°	1263	1253	1250
55°	1233	1216	1214
60°	1182	1161	1161
65°	1106	1080	1083
70°	995	964	961
75°	835	802	799
80°	611	580	604
85°	344	318	323

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1287 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.8	3.4
10°-20°	270.4	9.7
20°-30°	412.2	14.8
30°-40°	499.4	17.9
40°-50°	518.8	18.6
50°-60°	464.1	16.6
60°-70°	338.2	12.1
70°-80°	167.5	6.0
80°-90°	29.9	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°	776.4	27.8
0°-40°	1275.8	45.7
0°-60°	2258.7	80.8
0°-90°	2794.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2794.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	987	987	987	987	986	94
15°	958	958	958	958	958	270
25°	896	895	894	894	893	413
35°	801	800	799	798	796	501
45°	676	675	673	671	670	521
55°	526	522	518	518	518	468
65°	347	344	339	341	340	344
75°	161	158	154	157	154	171
85°	22	21	21	21	21	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	988.7	988.7	988.7	988.7	988.7
2.5°	988.7	988.3	988.3	988.7	988.0
5°	986.9	987.3	986.9	986.9	986.2
7.5°	983.0	982.7	982.3	982.7	981.6
10°	976.3	976.3	975.9	976.3	975.6
12.5°	968.1	968.1	968.1	968.5	968.1
15°	957.8	957.5	957.5	958.2	957.5
17.5°	945.8	945.4	945.4	945.1	944.4
20°	930.9	930.9	930.5	930.2	929.1
22.5°	914.9	914.6	913.5	913.5	912.1
25°	896.1	895.0	894.3	894.0	892.9
27.5°	875.5	874.1	873.1	872.3	871.3
30°	852.5	851.1	850.0	848.9	848.2
32.5°	827.6	826.9	825.2	824.8	823.4
35°	801.0	800.0	798.9	797.5	796.1
37.5°	772.7	771.6	769.1	768.4	767.3
40°	742.5	741.1	737.9	737.9	736.8
42.5°	710.2	708.8	706.7	705.3	704.5
45°	676.5	675.1	672.6	671.2	670.5
47.5°	640.7	639.6	636.8	635.7	634.7
50°	603.4	602.0	598.8	598.1	597.1
52.5°	564.4	563.7	559.4	559.1	558.0
55°	525.7	521.8	518.3	518.3	517.6
57.5°	483.2	480.3	475.7	475.7	475.0
60°	439.2	436.7	431.4	432.1	431.4
62.5°	396.3	390.9	386.0	388.1	386.3
65°	347.3	344.5	339.1	340.6	340.2
67.5°	302.6	297.3	292.3	295.2	293.7
70°	252.9	250.1	245.1	248.0	244.4
72.5°	206.1	203.6	198.7	201.9	198.3
75°	160.7	158.2	154.3	157.2	153.6
77.5°	117.8	116.0	112.5	115.3	116.0
80°	78.8	76.6	74.9	77.3	78.0
82.5°	46.1	44.7	44.0	44.3	46.1
85°	22.3	20.6	20.6	20.9	20.9
87.5°	6.0	5.3	6.0	6.4	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)