

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: P974330

Luminaire Tested: FLR2-24-30-L840-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974330  
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-L840-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-30-L840-CA125  
Ballast/Driver: -

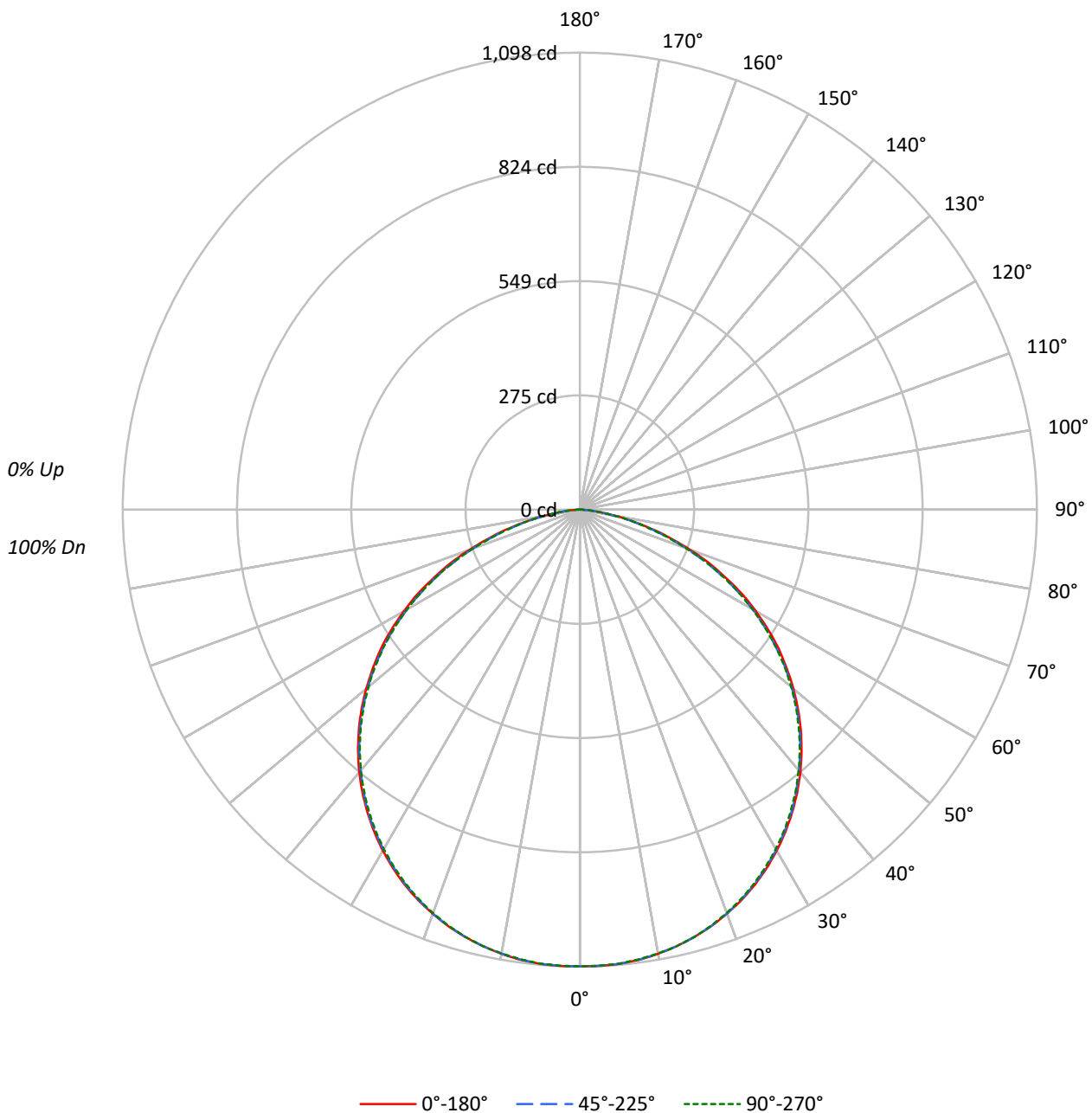
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3102.3 lumens  
Efficiency: N/A  
Efficacy: 130.9 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°	1477	1477	1477
5°	1480	1480	1479
10°	1481	1480	1480
15°	1481	1481	1481
20°	1480	1479	1477
25°	1477	1474	1472
30°	1470	1466	1463
35°	1461	1457	1452
40°	1448	1439	1437
45°	1429	1421	1416
50°	1402	1392	1387
55°	1369	1350	1348
60°	1312	1289	1289
65°	1228	1199	1202
70°	1105	1071	1068
75°	927	891	886
80°	677	644	671
85°	383	352	358

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1429 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.2	3.4
10°-20°	300.2	9.7
20°-30°	457.6	14.8
30°-40°	554.5	17.9
40°-50°	575.9	18.6
50°-60°	515.2	16.6
60°-70°	375.5	12.1
70°-80°	186.0	6.0
80°-90°	33.2	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°	862.0	27.8
0°-40°	1416.5	45.7
0°-60°	2507.6	80.8
0°-90°	3102.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3102.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1096	1096	1096	1096	1095	104
15°	1063	1063	1063	1064	1063	300
25°	995	994	993	992	991	459
35°	889	888	887	885	884	556
45°	751	750	747	745	744	579
55°	584	579	575	575	575	520
65°	386	382	376	378	378	382
75°	178	176	171	174	170	190
85°	25	23	23	23	23	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1097.7	1097.7	1097.7	1097.7	1097.7
2.5°	1097.7	1097.3	1097.3	1097.7	1096.9
5°	1095.7	1096.1	1095.7	1095.7	1094.9
7.5°	1091.4	1091.0	1090.6	1091.0	1089.8
10°	1083.9	1083.9	1083.5	1083.9	1083.1
12.5°	1074.8	1074.8	1074.8	1075.2	1074.8
15°	1063.4	1063.0	1063.0	1063.8	1063.0
17.5°	1050.0	1049.6	1049.6	1049.2	1048.4
20°	1033.5	1033.5	1033.1	1032.7	1031.5
22.5°	1015.7	1015.3	1014.2	1014.2	1012.6
25°	994.9	993.7	992.9	992.5	991.3
27.5°	972.0	970.4	969.3	968.5	967.3
30°	946.4	944.8	943.7	942.5	941.7
32.5°	918.9	918.1	916.1	915.7	914.1
35°	889.3	888.1	887.0	885.4	883.8
37.5°	857.8	856.6	853.9	853.1	851.9
40°	824.3	822.8	819.2	819.2	818.0
42.5°	788.5	786.9	784.5	783.0	782.2
45°	751.1	749.5	746.7	745.2	744.4
47.5°	711.3	710.1	707.0	705.8	704.6
50°	669.9	668.4	664.8	664.0	662.8
52.5°	626.6	625.8	621.1	620.7	619.5
55°	583.7	579.4	575.4	575.4	574.6
57.5°	536.4	533.3	528.2	528.2	527.4
60°	487.6	484.8	478.9	479.7	478.9
62.5°	439.9	434.0	428.5	430.9	428.9
65°	385.6	382.4	376.5	378.1	377.7
67.5°	336.0	330.0	324.5	327.7	326.1
70°	280.8	277.7	272.2	275.3	271.4
72.5°	228.8	226.1	220.6	224.1	220.2
75°	178.4	175.7	171.3	174.5	170.5
77.5°	130.8	128.8	124.9	128.0	128.8
80°	87.4	85.1	83.1	85.9	86.6
82.5°	51.2	49.6	48.8	49.2	51.2
85°	24.8	22.8	22.8	23.2	23.2
87.5°	6.7	5.9	6.7	7.1	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)