

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: P974178

Luminaire Tested: FLR2-24-30-L835-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974178  
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-L835-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-30-L835-CP125  
Ballast/Driver: -

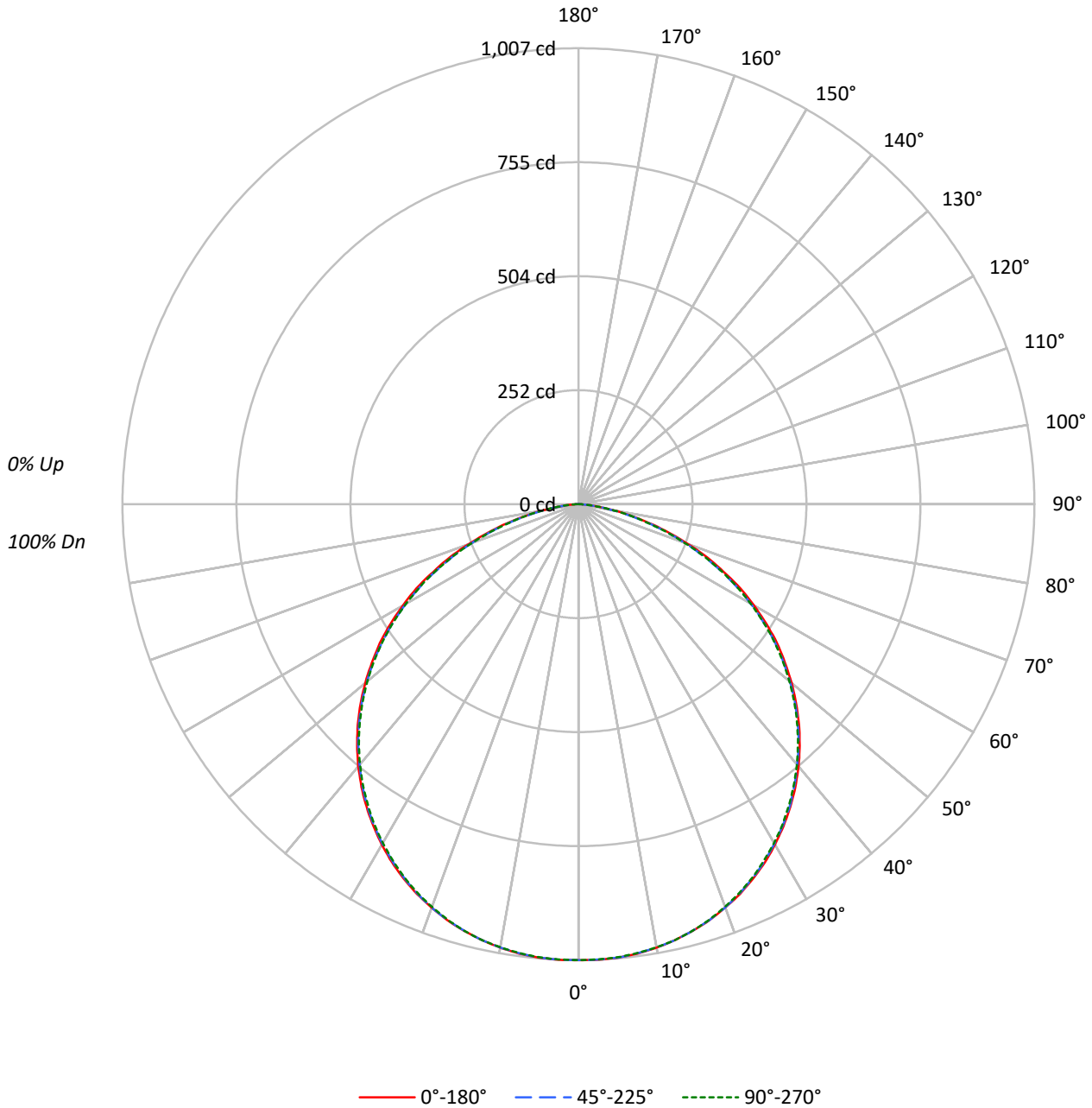
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2846.6 lumens  
Efficiency: N/A  
Efficacy: 120.1 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										
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°	1355	1355	1355
5°	1358	1358	1357
10°	1359	1358	1358
15°	1359	1359	1359
20°	1358	1357	1355
25°	1355	1352	1350
30°	1349	1345	1342
35°	1340	1337	1332
40°	1329	1320	1318
45°	1311	1304	1300
50°	1287	1277	1273
55°	1256	1239	1237
60°	1204	1182	1182
65°	1126	1100	1103
70°	1014	982	980
75°	851	817	814
80°	621	591	616
85°	352	324	329

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1311 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.6	3.4
10°-20°	275.4	9.7
20°-30°	419.9	14.8
30°-40°	508.8	17.9
40°-50°	528.5	18.6
50°-60°	472.7	16.6
60°-70°	344.5	12.1
70°-80°	170.6	6.0
80°-90°	30.5	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°	790.9	27.8
0°-40°	1299.7	45.7
0°-60°	2300.9	80.8
0°-90°	2846.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2846.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	1005	1006	1005	1005	1005	96
15°	976	975	975	976	975	275
25°	913	912	911	911	910	421
35°	816	815	814	812	811	510
45°	689	688	685	684	683	531
55°	536	532	528	528	527	477
65°	354	351	346	347	347	351
75°	164	161	157	160	156	175
85°	23	21	21	21	21	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1007.2	1007.2	1007.2	1007.2	1007.2
2.5°	1007.2	1006.8	1006.8	1007.2	1006.4
5°	1005.3	1005.7	1005.3	1005.3	1004.6
7.5°	1001.4	1001.0	1000.6	1001.0	999.9
10°	994.5	994.5	994.1	994.5	993.8
12.5°	986.2	986.2	986.2	986.6	986.2
15°	975.7	975.4	975.4	976.1	975.4
17.5°	963.4	963.1	963.1	962.7	962.0
20°	948.3	948.3	947.9	947.5	946.4
22.5°	932.0	931.6	930.5	930.5	929.1
25°	912.8	911.8	911.0	910.7	909.6
27.5°	891.9	890.4	889.3	888.6	887.5
30°	868.4	866.9	865.9	864.8	864.0
32.5°	843.1	842.4	840.6	840.2	838.8
35°	816.0	814.9	813.8	812.4	810.9
37.5°	787.1	786.0	783.5	782.7	781.7
40°	756.4	754.9	751.7	751.7	750.6
42.5°	723.5	722.0	719.9	718.4	717.7
45°	689.1	687.7	685.2	683.7	683.0
47.5°	652.6	651.6	648.7	647.6	646.5
50°	614.7	613.3	610.0	609.3	608.2
52.5°	574.9	574.2	569.9	569.5	568.4
55°	535.6	531.6	528.0	528.0	527.2
57.5°	492.2	489.3	484.6	484.6	483.9
60°	447.4	444.9	439.4	440.2	439.4
62.5°	403.7	398.2	393.2	395.3	393.5
65°	353.8	350.9	345.5	346.9	346.6
67.5°	308.3	302.8	297.8	300.7	299.2
70°	257.7	254.8	249.7	252.6	249.0
72.5°	210.0	207.4	202.4	205.6	202.0
75°	163.7	161.2	157.2	160.1	156.5
77.5°	120.0	118.2	114.6	117.4	118.2
80°	80.2	78.1	76.3	78.8	79.5
82.5°	47.0	45.5	44.8	45.2	47.0
85°	22.8	21.0	21.0	21.3	21.3
87.5°	6.1	5.4	6.1	6.5	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)