

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: P973376

Luminaire Tested: FLR2-14-42-L835-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973376  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-42-L835-CP125  
Description: 1\*4 FLR-2.0 4200 LUMEN at 3500 CCT & 80CRI with Clear Polycarbonate (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

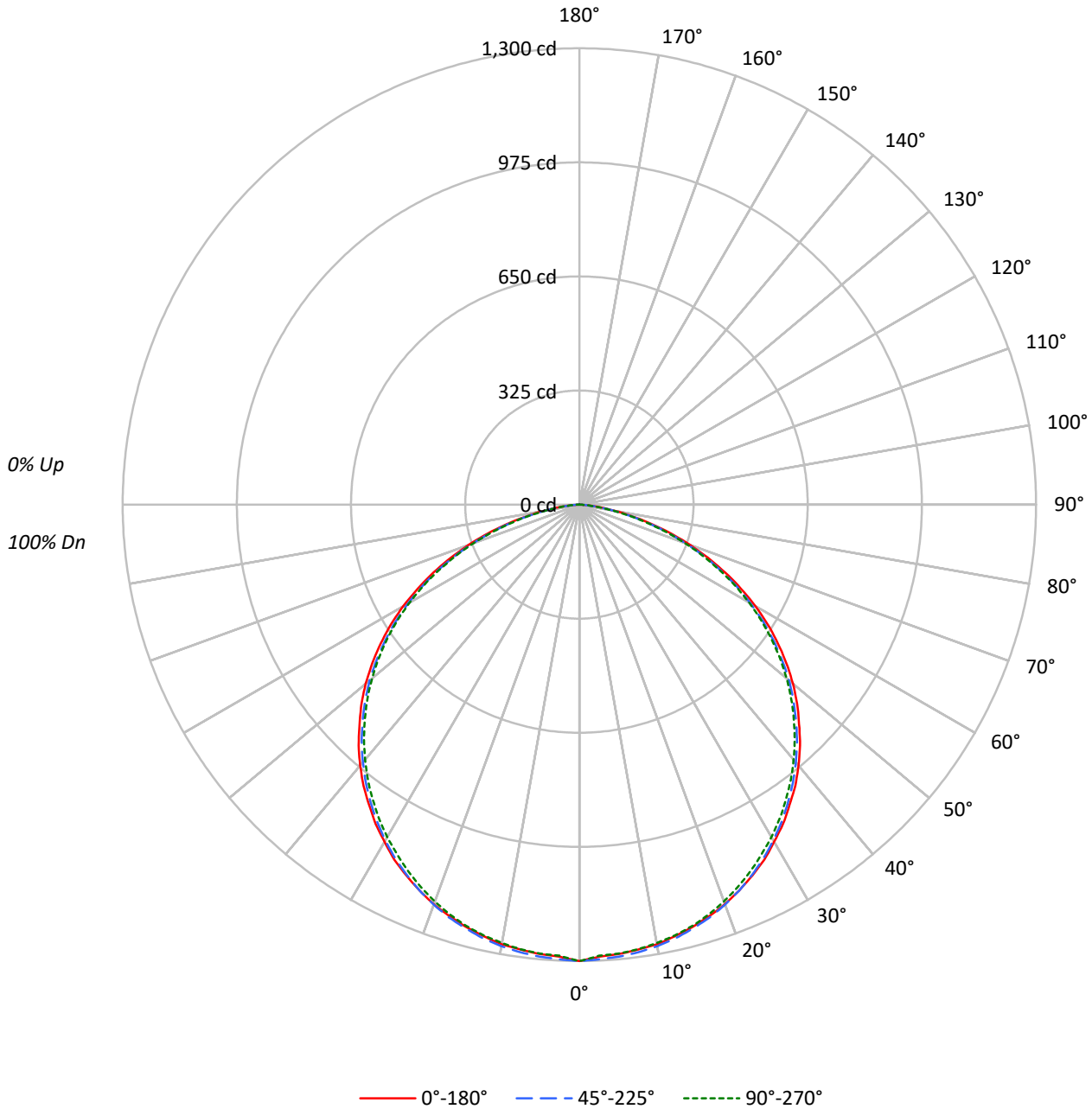
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3639.3 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.7  
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	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	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
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	40	34	29	27
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25

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

	0°	45°	90°
0°	3499	3499	3499
5°	3472	3492	3467
10°	3475	3490	3465
15°	3470	3483	3462
20°	3469	3472	3445
25°	3461	3455	3423
30°	3447	3432	3398
35°	3428	3402	3368
40°	3409	3367	3333
45°	3367	3320	3285
50°	3323	3262	3224
55°	3240	3164	3134
60°	3114	3027	3001
65°	2916	2831	2800
70°	2629	2524	2503
75°	2205	2093	2070
80°	1601	1492	1450
85°	846	747	682

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3367 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.2	3.4
10°-20°	353.7	9.7
20°-30°	537.3	14.8
30°-40°	650.0	17.9
40°-50°	675.6	18.6
50°-60°	604.8	16.6
60°-70°	441.2	12.1
70°-80°	217.2	6.0
80°-90°	36.3	1.0
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°	1014.2	27.9
0°-40°	1664.2	45.7
0°-60°	2944.6	80.9
0°-90°	3639.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3639.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1285	1299	1293	1305	1284	122
15°	1245	1257	1250	1261	1243	352
25°	1166	1172	1164	1169	1153	537
35°	1044	1046	1036	1040	1025	654
45°	885	884	872	874	863	683
55°	690	685	674	673	668	616
65°	458	453	445	441	440	452
75°	212	208	201	199	199	226
85°	27	26	24	22	22	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1300.3	1300.3	1300.3	<i>1300.3</i>	1300.3
2.5°	<i>1289.0</i>	<i>1303.5</i>	<i>1296.5</i>	<i>1309.4</i>	<i>1286.3</i>
5°	1285.2	1299.2	1292.8	<i>1305.1</i>	1283.6
7.5°	1278.8	1293.3	1286.3	<i>1298.1</i>	1277.7
10°	1271.8	1284.7	1277.2	<i>1289.0</i>	1268.0
12.5°	1259.4	1272.3	1265.3	<i>1276.1</i>	1256.7
15°	1245.4	1256.7	1250.2	<i>1261.0</i>	1242.7
17.5°	1229.3	1240.0	1233.0	<i>1242.7</i>	1224.4
20°	1211.5	1220.1	1212.6	<i>1220.6</i>	1202.9
22.5°	1189.4	1197.5	1189.4	<i>1194.8</i>	1179.2
25°	1165.7	1171.7	1163.6	<i>1169.0</i>	1152.8
27.5°	1140.5	1143.7	1135.6	<i>1139.9</i>	1123.2
30°	1109.2	1113.0	1104.4	<i>1109.8</i>	1093.6
32.5°	1079.1	1081.2	1071.6	<i>1075.9</i>	1061.3
35°	1043.6	1045.7	1035.5	<i>1039.8</i>	1025.3
37.5°	1009.7	1009.1	998.4	<i>1001.1</i>	988.7
40°	970.4	969.8	958.5	<i>960.7</i>	948.9
42.5°	930.0	927.9	917.1	<i>918.2</i>	907.4
45°	884.8	883.7	872.4	<i>874.0</i>	863.3
47.5°	841.2	838.0	826.7	<i>827.2</i>	818.1
50°	793.8	789.0	779.3	<i>778.2</i>	770.2
52.5°	743.3	737.9	727.1	<i>726.0</i>	720.1
55°	690.5	684.6	674.4	<i>672.8</i>	667.9
57.5°	636.2	628.6	620.5	<i>617.3</i>	613.6
60°	578.6	571.6	562.4	<i>559.2</i>	557.6
62.5°	518.8	511.8	504.8	<i>501.6</i>	499.5
65°	458.0	452.6	444.6	<i>441.3</i>	439.7
67.5°	396.1	391.3	383.7	<i>380.0</i>	379.4
70°	334.2	329.4	320.8	<i>318.6</i>	318.1
72.5°	272.3	268.0	260.0	<i>257.8</i>	257.8
75°	212.1	208.3	201.3	<i>199.1</i>	199.1
77.5°	155.0	151.8	146.4	<i>143.7</i>	143.7
80°	103.3	101.2	96.3	<i>94.2</i>	93.6
82.5°	59.7	58.7	54.4	<i>52.2</i>	53.3
85°	27.4	26.4	24.2	<i>21.5</i>	22.1
87.5°	7.0	6.5	4.8	<i>3.8</i>	4.8
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)