

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: P973577

Luminaire Tested: FLR2-22-20-L835-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973577  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-20-L835-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

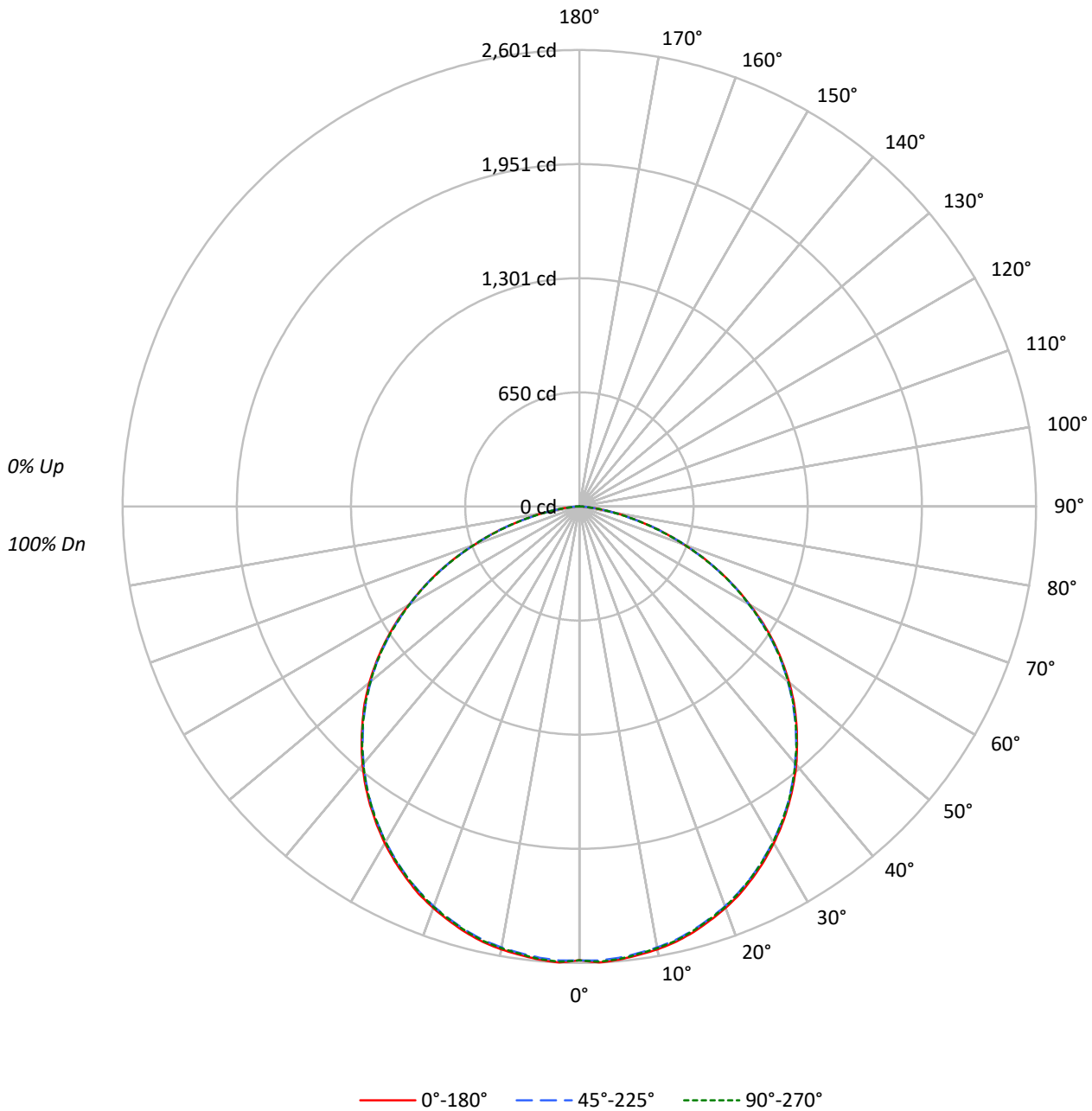
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7233.0 lumens  
Efficiency: N/A  
Efficacy: 479.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.1  
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	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	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

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

	0°	45°	90°
0°	6960	6960	6960
5°	7004	6974	6995
10°	7002	6971	6985
15°	6997	6965	6974
20°	6972	6945	6954
25°	6935	6906	6911
30°	6885	6855	6860
35°	6822	6796	6801
40°	6751	6718	6723
45°	6651	6621	6633
50°	6534	6487	6501
55°	6348	6296	6318
60°	6036	6010	6010
65°	5635	5625	5605
70°	4990	5015	5002
75°	4203	4169	4136
80°	3020	2971	2946
85°	1578	1578	1528

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6651 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.9	3.4
10°-20°	704.3	9.7
20°-30°	1070.3	14.8
30°-40°	1293.7	17.9
40°-50°	1342.8	18.6
50°-60°	1200.5	16.6
60°-70°	872.8	12.1
70°-80°	429.2	5.9
80°-90°	74.4	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°	2019.6	27.9
0°-40°	3313.2	45.8
0°-60°	5856.5	81.0
0°-90°	7233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7233.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2586	2586	2586	2586	2586	
5°	2593	2562	2582	2572	2590	246
15°	2511	2483	2500	2494	2503	709
25°	2336	2310	2326	2321	2328	1077
35°	2077	2062	2069	2070	2070	1299
45°	1748	1740	1740	1743	1743	1348
55°	1353	1345	1342	1345	1347	1206
65°	885	888	883	883	880	873
75°	404	407	401	403	398	429
85°	51	53	51	51	50	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2586.4	2586.4	2586.4	2586.4	2586.4
2.5°	2600.8	2570.5	2589.6	2578.4	2596.0
5°	2592.8	2562.5	2581.6	2572.1	2589.6
7.5°	2578.4	2548.1	2567.3	2557.7	2572.1
10°	2562.5	2530.5	2551.3	2541.7	2556.1
12.5°	2541.7	2511.4	2530.5	2522.5	2535.3
15°	2511.4	2482.6	2500.2	2493.8	2503.4
17.5°	2474.6	2445.9	2463.4	2458.6	2466.6
20°	2434.7	2407.5	2425.1	2420.3	2428.3
22.5°	2389.9	2361.2	2377.2	2374.0	2380.4
25°	2335.6	2310.1	2326.0	2321.2	2327.6
27.5°	2278.1	2254.1	2266.9	2266.9	2270.1
30°	2215.8	2193.4	2206.2	2206.2	2207.8
32.5°	2148.7	2131.1	2139.1	2140.7	2140.7
35°	2076.8	2062.4	2068.8	2070.4	2070.4
37.5°	2001.7	1987.4	1992.1	1995.3	1995.3
40°	1921.9	1909.1	1912.3	1915.5	1913.9
42.5°	1835.6	1826.0	1827.6	1830.8	1830.8
45°	1747.7	1739.7	1739.7	1742.9	1742.9
47.5°	1658.3	1650.3	1647.1	1650.3	1650.3
50°	1560.8	1552.8	1549.6	1552.8	1552.8
52.5°	1458.6	1450.6	1450.6	1450.6	1452.2
55°	1353.1	1345.1	1341.9	1345.1	1346.7
57.5°	1241.3	1238.1	1233.3	1234.9	1230.1
60°	1121.5	1121.5	1116.7	1119.9	1116.7
62.5°	1004.9	1008.1	1003.3	1003.3	1000.1
65°	885.0	888.2	883.4	883.4	880.3
67.5°	762.0	766.8	760.4	760.4	757.2
70°	634.2	643.8	637.4	639.0	635.8
72.5°	519.2	524.0	517.6	517.6	514.4
75°	404.2	407.4	401.0	402.6	397.8
77.5°	290.8	295.5	289.2	290.8	289.2
80°	194.9	196.5	191.7	193.3	190.1
82.5°	113.4	115.0	113.4	111.8	110.2
85°	51.1	52.7	51.1	51.1	49.5
87.5°	12.8	12.8	12.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)