

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: P974195

Luminaire Tested: FLR2-24-35-L835-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974195  
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-L835-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-35-L835-CP250  
Ballast/Driver: -

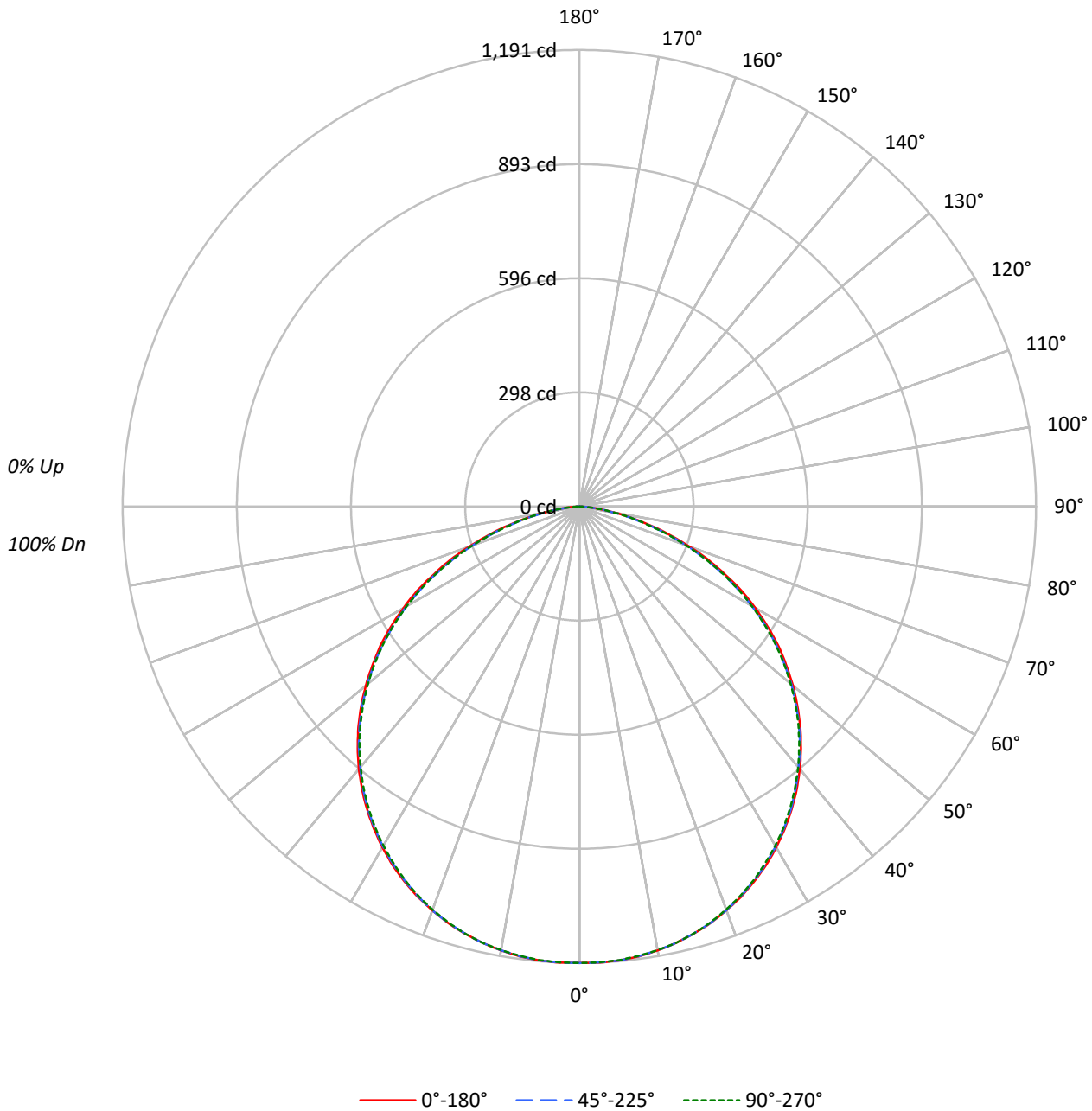
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3366.7 lumens  
Efficiency: N/A  
Efficacy: 118.5 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				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°	1603	1603	1603
5°	1606	1606	1605
10°	1607	1606	1606
15°	1607	1607	1607
20°	1606	1605	1603
25°	1603	1600	1597
30°	1596	1591	1588
35°	1585	1581	1575
40°	1571	1561	1559
45°	1551	1542	1537
50°	1522	1510	1506
55°	1486	1465	1463
60°	1424	1399	1399
65°	1332	1301	1305
70°	1199	1162	1159
75°	1006	966	962
80°	735	699	728
85°	415	383	389

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1551 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.1	3.4
10°-20°	325.7	9.7
20°-30°	496.6	14.8
30°-40°	601.7	17.9
40°-50°	625.0	18.6
50°-60°	559.1	16.6
60°-70°	407.5	12.1
70°-80°	201.8	6.0
80°-90°	36.1	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°	935.4	27.8
0°-40°	1537.2	45.7
0°-60°	2721.3	80.8
0°-90°	3366.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3366.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1189	1190	1189	1189	1188	113
15°	1154	1154	1154	1154	1154	326
25°	1080	1078	1078	1077	1076	498
35°	965	964	962	961	959	604
45°	815	813	810	809	808	628
55°	633	629	624	624	624	564
65°	418	415	409	410	410	415
75°	194	191	186	189	185	206
85°	27	25	25	25	25	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1191.2	1191.2	1191.2	1191.2	1191.2
2.5°	1191.2	1190.8	1190.8	1191.2	1190.4
5°	1189.1	1189.5	1189.1	1189.1	1188.2
7.5°	1184.4	1183.9	1183.5	1183.9	1182.7
10°	1176.2	1176.2	1175.8	1176.2	1175.4
12.5°	1166.4	1166.4	1166.4	1166.8	1166.4
15°	1154.0	1153.6	1153.6	1154.4	1153.6
17.5°	1139.5	1139.1	1139.1	1138.6	1137.8
20°	1121.5	1121.5	1121.1	1120.7	1119.4
22.5°	1102.3	1101.9	1100.6	1100.6	1098.9
25°	1079.6	1078.4	1077.5	1077.1	1075.8
27.5°	1054.9	1053.2	1051.9	1051.0	1049.7
30°	1027.1	1025.4	1024.1	1022.8	1021.9
32.5°	997.2	996.3	994.2	993.7	992.0
35°	965.1	963.8	962.5	960.8	959.1
37.5°	930.9	929.6	926.6	925.8	924.5
40°	894.6	892.9	889.0	889.0	887.7
42.5°	855.7	854.0	851.4	849.7	848.8
45°	815.1	813.4	810.4	808.7	807.8
47.5°	771.9	770.6	767.2	765.9	764.6
50°	727.0	725.3	721.5	720.6	719.3
52.5°	680.0	679.2	674.0	673.6	672.3
55°	633.4	628.7	624.5	624.5	623.6
57.5°	582.1	578.7	573.2	573.2	572.3
60°	529.1	526.1	519.7	520.6	519.7
62.5°	477.4	471.0	465.0	467.6	465.5
65°	418.4	415.0	408.6	410.3	409.9
67.5°	364.6	358.2	352.2	355.6	353.9
70°	304.7	301.3	295.3	298.8	294.5
72.5°	248.3	245.3	239.4	243.2	238.9
75°	193.6	190.6	185.9	189.3	185.1
77.5°	141.9	139.8	135.5	138.9	139.8
80°	94.9	92.3	90.2	93.2	94.0
82.5°	55.6	53.9	53.0	53.4	55.6
85°	26.9	24.8	24.8	25.2	25.2
87.5°	7.3	6.4	7.3	7.7	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)