

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: P973679

Luminaire Tested: FLR2-22-35-L850-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973679  
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: FLR2-22-35-L850-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

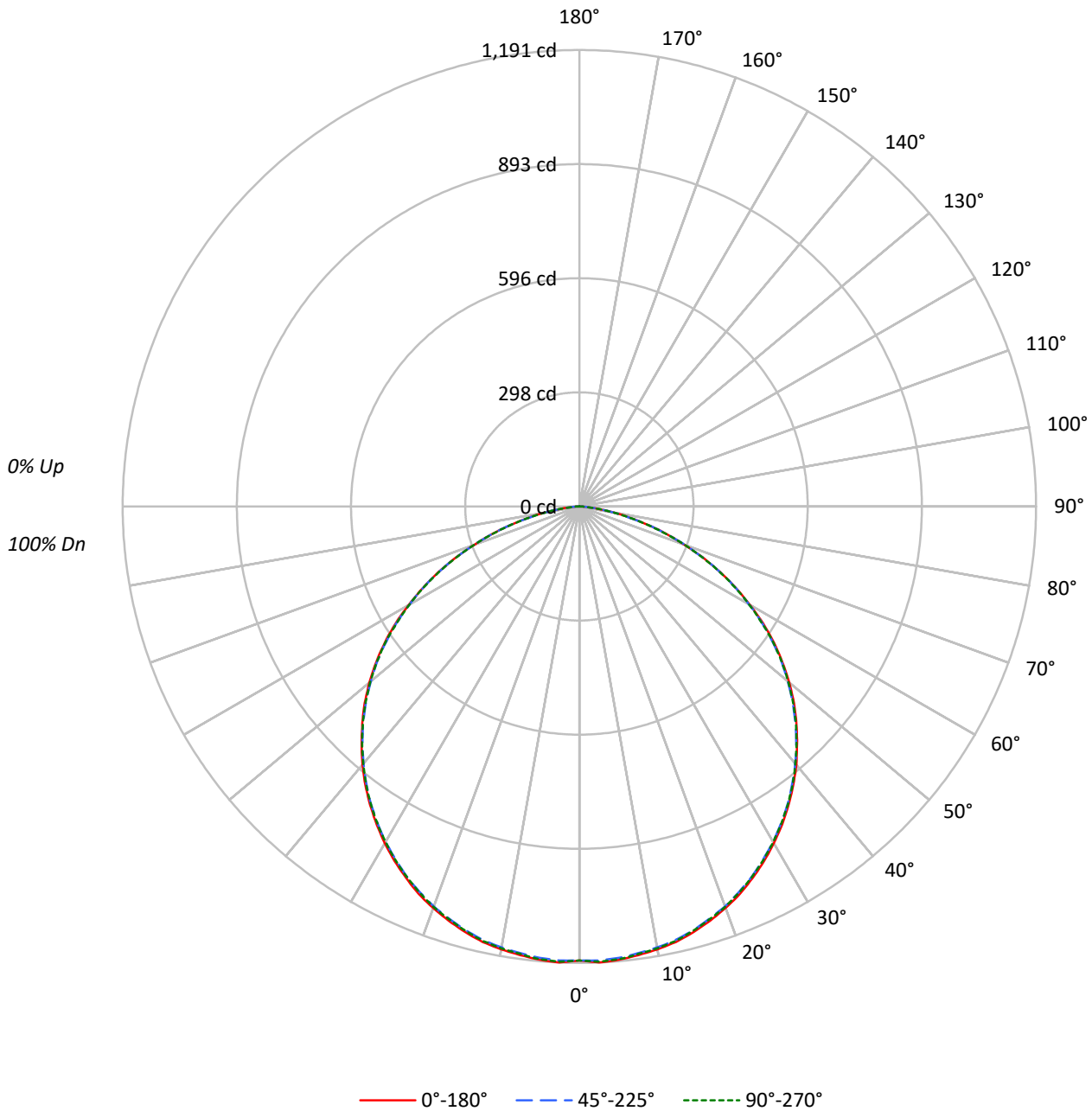
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3312.4 lumens  
Efficiency: N/A  
Efficacy: 118.7 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): 27.9  
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

TEST NUMBER: P973679  
CATALOG NUMBER: FLR2-22-35-L850-CP250

### Luminous Intensity Polar Plot





TEST NUMBER: P973679  
 CATALOG NUMBER: FLR2-22-35-L850-CP250

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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	63	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	71	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	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	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	40	32	27	39	32	27	38	31	27	37	31	26	25

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

	0°	45°	90°
0°	3187	3187	3187
5°	3207	3194	3203
10°	3207	3193	3199
15°	3204	3190	3194
20°	3193	3180	3184
25°	3176	3163	3165
30°	3153	3139	3142
35°	3124	3112	3115
40°	3092	3076	3079
45°	3046	3032	3038
50°	2992	2971	2977
55°	2907	2883	2893
60°	2764	2752	2752
65°	2581	2576	2567
70°	2285	2297	2291
75°	1925	1909	1894
80°	1384	1361	1350
85°	722	722	701

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3046 cd/sqm



TEST NUMBER: P973679  
 CATALOG NUMBER: FLR2-22-35-L850-CP250

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.2	3.4
10°-20°	322.5	9.7
20°-30°	490.2	14.8
30°-40°	592.5	17.9
40°-50°	614.9	18.6
50°-60°	549.8	16.6
60°-70°	399.7	12.1
70°-80°	196.6	5.9
80°-90°	34.1	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°	924.9	27.9
0°-40°	1517.3	45.8
0°-60°	2682.0	81.0
0°-90°	3312.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3312.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1187	1174	1182	1178	1186	113
15°	1150	1137	1145	1142	1146	325
25°	1070	1058	1065	1063	1066	493
35°	951	944	947	948	948	595
45°	800	797	797	798	798	617
55°	620	616	614	616	617	552
65°	405	407	405	405	403	400
75°	185	187	184	184	182	196
85°	23	24	23	23	23	34
90°	0	0	0	0	0	



TEST NUMBER: P973679  
 CATALOG NUMBER: FLR2-22-35-L850-CP250

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1191.1	1177.2	1185.9	1180.8	1188.9
5°	1187.4	1173.5	1182.3	1177.9	1185.9
7.5°	1180.8	1166.9	1175.7	1171.3	1177.9
10°	1173.5	1158.9	1168.4	1164.0	1170.6
12.5°	1164.0	1150.1	1158.9	1155.2	1161.1
15°	1150.1	1136.9	1145.0	1142.0	1146.4
17.5°	1133.3	1120.1	1128.1	1125.9	1129.6
20°	1115.0	1102.5	1110.6	1108.4	1112.0
22.5°	1094.5	1081.3	1088.6	1087.2	1090.1
25°	1069.6	1057.9	1065.2	1063.0	1066.0
27.5°	1043.3	1032.3	1038.1	1038.1	1039.6
30°	1014.7	1004.5	1010.3	1010.3	1011.1
32.5°	984.0	976.0	979.6	980.4	980.4
35°	951.1	944.5	947.4	948.2	948.2
37.5°	916.7	910.1	912.3	913.8	913.8
40°	880.1	874.3	875.7	877.2	876.5
42.5°	840.6	836.2	837.0	838.4	838.4
45°	800.4	796.7	796.7	798.2	798.2
47.5°	759.4	755.7	754.3	755.7	755.7
50°	714.8	711.1	709.7	711.1	711.1
52.5°	668.0	664.3	664.3	664.3	665.0
55°	619.7	616.0	614.5	616.0	616.7
57.5°	568.5	567.0	564.8	565.5	563.3
60°	513.6	513.6	511.4	512.9	511.4
62.5°	460.2	461.6	459.4	459.4	458.0
65°	405.3	406.8	404.6	404.6	403.1
67.5°	349.0	351.2	348.2	348.2	346.8
70°	290.4	294.8	291.9	292.6	291.2
72.5°	237.8	240.0	237.0	237.0	235.6
75°	185.1	186.6	183.6	184.4	182.2
77.5°	133.2	135.3	132.4	133.2	132.4
80°	89.3	90.0	87.8	88.5	87.1
82.5°	51.9	52.7	51.9	51.2	50.5
85°	23.4	24.1	23.4	23.4	22.7
87.5°	5.9	5.9	5.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)