

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: P973575

Luminaire Tested: FLR2-22-35-L835-CA080

Issue Date: 3/13/2025

**Test Information**

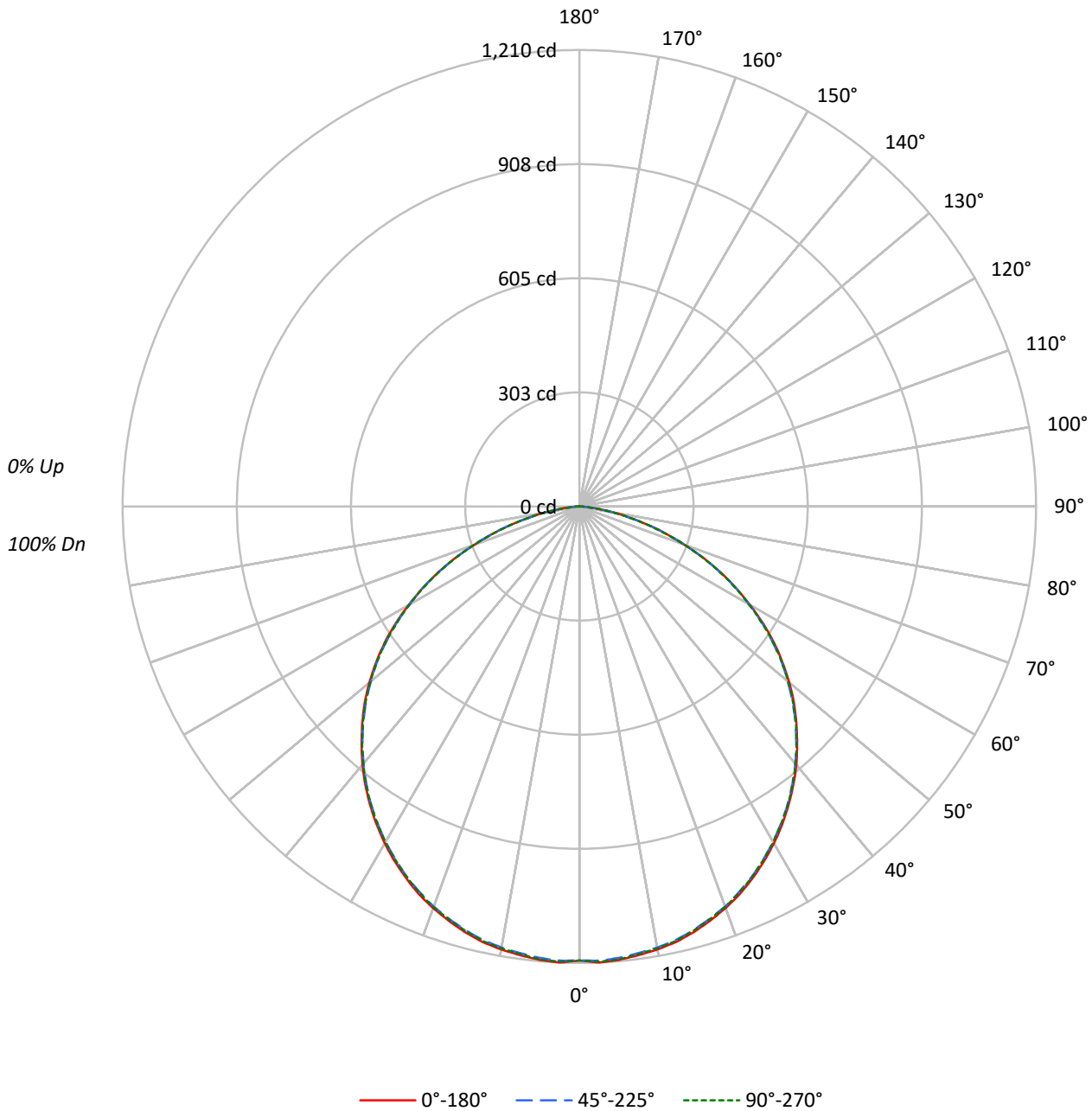
Test Method: LM-79-2019  
Report Number: P973575  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-35-L835-CA080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3365.7 lumens  
Efficiency: N/A  
Efficacy: 120.6 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

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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	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°	3239	3239	3239
5°	3259	3245	3255
10°	3258	3244	3250
15°	3256	3241	3245
20°	3244	3232	3236
25°	3227	3214	3216
30°	3204	3190	3192
35°	3175	3163	3165
40°	3142	3126	3129
45°	3095	3081	3086
50°	3041	3019	3025
55°	2954	2929	2940
60°	2809	2796	2796
65°	2622	2618	2608
70°	2322	2334	2328
75°	1956	1940	1925
80°	1406	1382	1371
85°	735	735	710

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3095 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.0	3.4
10°-20°	327.7	9.7
20°-30°	498.1	14.8
30°-40°	602.0	17.9
40°-50°	624.8	18.6
50°-60°	558.6	16.6
60°-70°	406.2	12.1
70°-80°	199.7	5.9
80°-90°	34.6	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°	939.8	27.9
0°-40°	1541.7	45.8
0°-60°	2725.2	81.0
0°-90°	3365.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3365.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1206	1192	1201	1197	1205	115
15°	1169	1155	1163	1160	1165	330
25°	1087	1075	1082	1080	1083	501
35°	966	960	963	963	963	605
45°	813	810	810	811	811	627
55°	630	626	624	626	627	561
65°	412	413	411	411	410	406
75°	188	190	187	187	185	200
85°	24	24	24	24	23	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1203.5	1203.5	1203.5	1203.5	1203.5
2.5°	1210.2	1196.1	1205.0	1199.8	1208.0
5°	1206.5	1192.4	1201.3	1196.9	1205.0
7.5°	1199.8	1185.7	1194.6	1190.2	1196.9
10°	1192.4	1177.5	1187.2	1182.7	1189.4
12.5°	1182.7	1168.6	1177.5	1173.8	1179.8
15°	1168.6	1155.2	1163.4	1160.4	1164.9
17.5°	1151.5	1138.1	1146.3	1144.1	1147.8
20°	1132.9	1120.3	1128.5	1126.2	1130.0
22.5°	1112.1	1098.7	1106.2	1104.7	1107.6
25°	1086.8	1074.9	1082.4	1080.1	1083.1
27.5°	1060.1	1048.9	1054.9	1054.9	1056.4
30°	1031.1	1020.7	1026.6	1026.6	1027.4
32.5°	999.9	991.7	995.4	996.1	996.1
35°	966.4	959.7	962.7	963.4	963.4
37.5°	931.5	924.8	927.0	928.5	928.5
40°	894.3	888.3	889.8	891.3	890.6
42.5°	854.2	849.7	850.4	851.9	851.9
45°	813.3	809.6	809.6	811.0	811.0
47.5°	771.6	767.9	766.4	767.9	767.9
50°	726.3	722.6	721.1	722.6	722.6
52.5°	678.7	675.0	675.0	675.0	675.7
55°	629.7	625.9	624.4	625.9	626.7
57.5°	577.6	576.1	573.9	574.6	572.4
60°	521.9	521.9	519.6	521.1	519.6
62.5°	467.6	469.1	466.8	466.8	465.4
65°	411.8	413.3	411.1	411.1	409.6
67.5°	354.6	356.8	353.9	353.9	352.4
70°	295.1	299.6	296.6	297.4	295.9
72.5°	241.6	243.8	240.9	240.9	239.4
75°	188.1	189.6	186.6	187.3	185.1
77.5°	135.3	137.5	134.6	135.3	134.6
80°	90.7	91.4	89.2	90.0	88.5
82.5°	52.8	53.5	52.8	52.0	51.3
85°	23.8	24.5	23.8	23.8	23.0
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)