

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: P973849

Luminaire Tested: FLR2-22-35HE-L935-CP080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973849  
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: FLR2-22-35HE-L935-CP080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

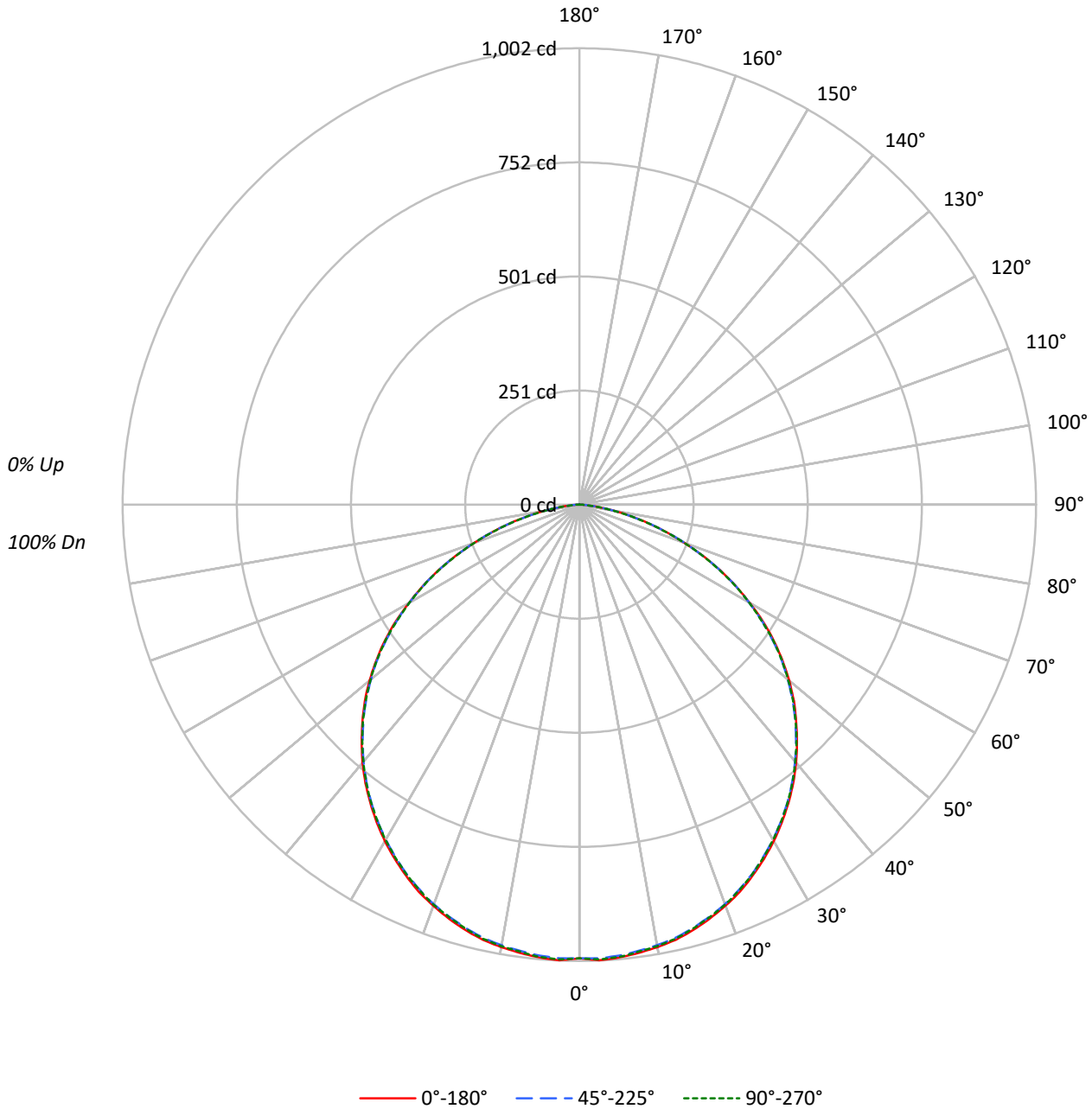
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2785.2 lumens  
Efficiency: N/A  
Efficacy: 102.4 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): 27.2  
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°	2680	2680	2680
5°	2697	2685	2694
10°	2696	2684	2690
15°	2694	2682	2686
20°	2685	2674	2678
25°	2670	2659	2661
30°	2651	2640	2642
35°	2627	2617	2619
40°	2599	2586	2589
45°	2561	2549	2554
50°	2516	2498	2503
55°	2444	2424	2433
60°	2324	2314	2314
65°	2170	2166	2159
70°	1921	1931	1926
75°	1618	1605	1593
80°	1162	1144	1134
85°	608	608	590

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2561 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.3	3.4
10°-20°	271.2	9.7
20°-30°	412.1	14.8
30°-40°	498.1	17.9
40°-50°	517.1	18.6
50°-60°	462.3	16.6
60°-70°	336.1	12.1
70°-80°	165.3	5.9
80°-90°	28.7	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°	777.7	27.9
0°-40°	1275.8	45.8
0°-60°	2255.1	81.0
0°-90°	2785.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2785.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	998	987	994	990	997	95
15°	967	956	963	960	964	273
25°	899	890	896	894	896	415
35°	800	794	797	797	797	500
45°	673	670	670	671	671	519
55°	521	518	517	518	519	464
65°	341	342	340	340	339	336
75°	156	157	154	155	153	165
85°	20	20	20	20	19	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	995.9	995.9	995.9	995.9	995.9
2.5°	1001.5	989.8	997.2	992.9	999.6
5°	998.4	986.7	994.1	990.4	997.2
7.5°	992.9	981.2	988.6	984.9	990.4
10°	986.7	974.4	982.4	978.7	984.3
12.5°	978.7	967.0	974.4	971.3	976.3
15°	967.0	956.0	962.7	960.3	964.0
17.5°	952.9	941.8	948.6	946.7	949.8
20°	937.5	927.0	933.8	932.0	935.0
22.5°	920.3	909.2	915.4	914.1	916.6
25°	899.4	889.5	895.7	893.8	896.3
27.5°	877.2	868.0	872.9	872.9	874.1
30°	853.2	844.6	849.5	849.5	850.2
32.5°	827.4	820.6	823.7	824.3	824.3
35°	799.7	794.2	796.6	797.2	797.2
37.5°	770.8	765.3	767.1	768.3	768.3
40°	740.0	735.1	736.3	737.6	737.0
42.5°	706.8	703.1	703.7	705.0	705.0
45°	673.0	669.9	669.9	671.1	671.1
47.5°	638.5	635.5	634.2	635.5	635.5
50°	601.0	597.9	596.7	597.9	597.9
52.5°	561.6	558.6	558.6	558.6	559.2
55°	521.0	518.0	516.7	518.0	518.6
57.5°	478.0	476.8	474.9	475.5	473.7
60°	431.8	431.8	430.0	431.2	430.0
62.5°	386.9	388.2	386.3	386.3	385.1
65°	340.8	342.0	340.2	340.2	339.0
67.5°	293.4	295.3	292.8	292.8	291.6
70°	244.2	247.9	245.4	246.1	244.8
72.5°	199.9	201.8	199.3	199.3	198.1
75°	155.6	156.9	154.4	155.0	153.2
77.5°	112.0	113.8	111.3	112.0	111.3
80°	75.0	75.7	73.8	74.4	73.2
82.5°	43.7	44.3	43.7	43.1	42.4
85°	19.7	20.3	19.7	19.7	19.1
87.5°	4.9	4.9	4.9	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)