

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: P973879

Luminaire Tested: FLR2-22-35HE-L935-CA080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973879  
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-CA080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

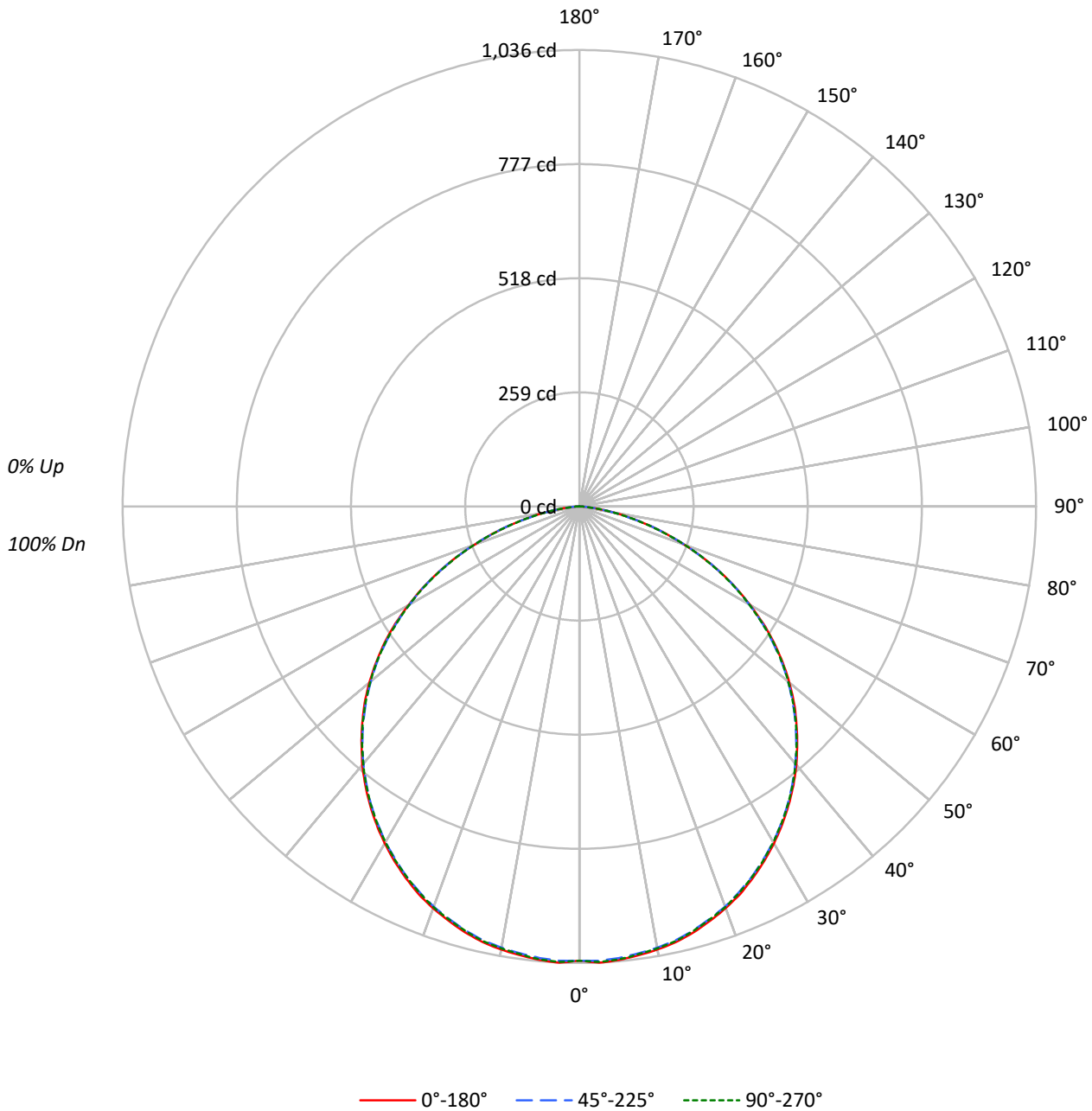
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2882.6 lumens  
Efficiency: N/A  
Efficacy: 106.0 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): 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°	2774	2774	2774
5°	2791	2779	2788
10°	2790	2778	2784
15°	2788	2776	2779
20°	2779	2768	2771
25°	2764	2752	2754
30°	2744	2732	2734
35°	2719	2709	2711
40°	2690	2677	2679
45°	2651	2638	2643
50°	2604	2586	2591
55°	2530	2509	2518
60°	2406	2395	2395
65°	2246	2242	2234
70°	1989	1998	1994
75°	1675	1661	1648
80°	1204	1184	1175
85°	630	630	608

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2651 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.6	3.4
10°-20°	280.7	9.7
20°-30°	426.6	14.8
30°-40°	515.6	17.9
40°-50°	535.1	18.6
50°-60°	478.4	16.6
60°-70°	347.9	12.1
70°-80°	171.1	5.9
80°-90°	29.7	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°	804.9	27.9
0°-40°	1320.5	45.8
0°-60°	2334.0	81.0
0°-90°	2882.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2882.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1033	1021	1029	1025	1032	98
15°	1001	989	996	994	998	282
25°	931	921	927	925	928	429
35°	828	822	824	825	825	518
45°	696	693	693	695	695	537
55°	539	536	535	536	537	481
65°	353	354	352	352	351	348
75°	161	162	160	160	158	171
85°	20	21	20	20	20	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1030.8	1030.8	1030.8	1030.8	1030.8
2.5°	1036.5	1024.4	1032.1	1027.6	1034.6
5°	1033.3	1021.2	1028.9	1025.1	1032.1
7.5°	1027.6	1015.5	1023.1	1019.3	1025.1
10°	1021.2	1008.5	1016.8	1013.0	1018.7
12.5°	1013.0	1000.9	1008.5	1005.3	1010.4
15°	1000.9	989.4	996.4	993.9	997.7
17.5°	986.2	974.8	981.8	979.9	983.0
20°	970.3	959.5	966.5	964.6	967.8
22.5°	952.5	941.0	947.4	946.1	948.7
25°	930.8	920.6	927.0	925.1	927.6
27.5°	907.9	898.4	903.5	903.5	904.7
30°	883.1	874.2	879.3	879.3	879.9
32.5°	856.3	849.3	852.5	853.2	853.2
35°	827.7	822.0	824.5	825.1	825.1
37.5°	797.8	792.0	793.9	795.2	795.2
40°	765.9	760.8	762.1	763.4	762.7
42.5°	731.5	727.7	728.4	729.6	729.6
45°	696.5	693.3	693.3	694.6	694.6
47.5°	660.9	657.7	656.4	657.7	657.7
50°	622.0	618.9	617.6	618.9	618.9
52.5°	581.3	578.1	578.1	578.1	578.7
55°	539.3	536.1	534.8	536.1	536.7
57.5°	494.7	493.4	491.5	492.2	490.2
60°	447.0	447.0	445.0	446.3	445.0
62.5°	400.5	401.7	399.8	399.8	398.6
65°	352.7	354.0	352.1	352.1	350.8
67.5°	303.7	305.6	303.1	303.1	301.8
70°	252.8	256.6	254.0	254.7	253.4
72.5°	206.9	208.8	206.3	206.3	205.0
75°	161.1	162.4	159.8	160.4	158.5
77.5°	115.9	117.8	115.2	115.9	115.2
80°	77.7	78.3	76.4	77.0	75.8
82.5°	45.2	45.8	45.2	44.6	43.9
85°	20.4	21.0	20.4	20.4	19.7
87.5°	5.1	5.1	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)