

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: P974041

Luminaire Tested: FLR2-22-35HE-L950-CA080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974041  
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-L950-CA080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

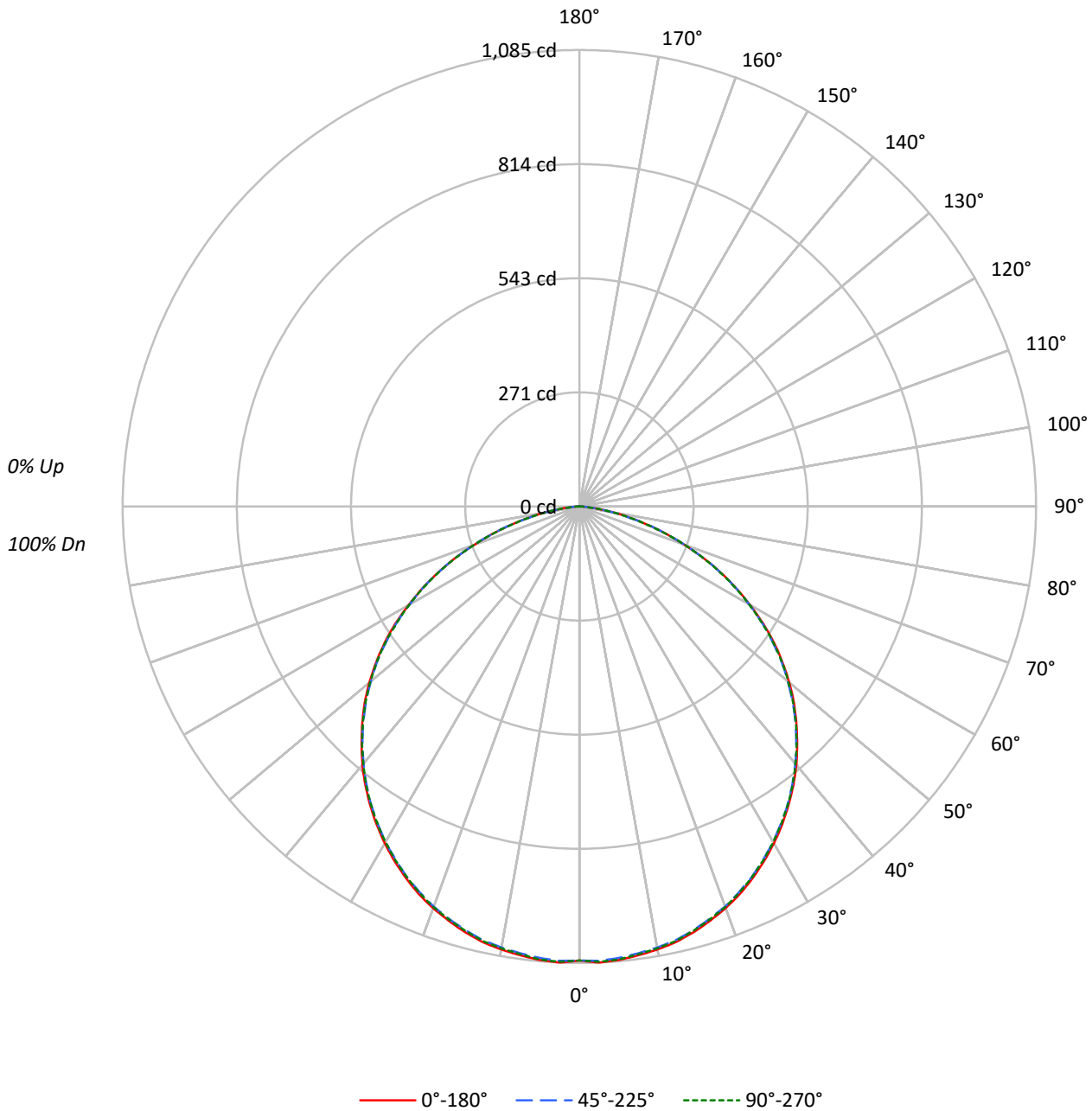
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3018.3 lumens  
Efficiency: N/A  
Efficacy: 111.0 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	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°	2904	2904	2904
5°	2923	2910	2919
10°	2922	2909	2914
15°	2920	2907	2910
20°	2909	2898	2902
25°	2894	2882	2884
30°	2873	2861	2863
35°	2847	2836	2838
40°	2817	2803	2805
45°	2775	2763	2768
50°	2727	2707	2713
55°	2649	2627	2637
60°	2519	2508	2508
65°	2351	2348	2339
70°	2083	2093	2087
75°	1754	1739	1726
80°	1260	1240	1229
85°	658	658	639

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2775 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.2	3.4
10°-20°	293.9	9.7
20°-30°	446.6	14.8
30°-40°	539.8	17.9
40°-50°	560.3	18.6
50°-60°	500.9	16.6
60°-70°	364.2	12.1
70°-80°	179.1	5.9
80°-90°	31.0	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°	842.7	27.9
0°-40°	1382.6	45.8
0°-60°	2443.9	81.0
0°-90°	3018.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3018.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1079	1079	1079	1079	1079	
5°	1082	1069	1077	1073	1081	103
15°	1048	1036	1043	1041	1045	296
25°	975	964	971	969	971	449
35°	867	861	863	864	864	542
45°	729	726	726	727	727	563
55°	565	561	560	561	562	503
65°	369	371	369	369	367	364
75°	169	170	167	168	166	179
85°	21	22	21	21	21	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1079.3	1079.3	1079.3	1079.3	1079.3
2.5°	1085.3	1072.6	1080.6	1076.0	1083.3
5°	1082.0	1069.3	1077.3	1073.3	1080.6
7.5°	1076.0	1063.3	1071.3	1067.3	1073.3
10°	1069.3	1056.0	1064.6	1060.6	1066.6
12.5°	1060.6	1048.0	1056.0	1052.6	1058.0
15°	1048.0	1036.0	1043.3	1040.6	1044.6
17.5°	1032.6	1020.6	1028.0	1026.0	1029.3
20°	1016.0	1004.6	1012.0	1010.0	1013.3
22.5°	997.3	985.3	992.0	990.6	993.3
25°	974.6	964.0	970.6	968.6	971.3
27.5°	950.6	940.6	946.0	946.0	947.3
30°	924.6	915.3	920.6	920.6	921.3
32.5°	896.6	889.3	892.6	893.3	893.3
35°	866.6	860.6	863.3	864.0	864.0
37.5°	835.3	829.3	831.3	832.6	832.6
40°	802.0	796.6	798.0	799.3	798.6
42.5°	766.0	762.0	762.6	764.0	764.0
45°	729.3	726.0	726.0	727.3	727.3
47.5°	692.0	688.6	687.3	688.6	688.6
50°	651.3	648.0	646.6	648.0	648.0
52.5°	608.6	605.3	605.3	605.3	606.0
55°	564.6	561.3	560.0	561.3	562.0
57.5°	518.0	516.6	514.6	515.3	513.3
60°	468.0	468.0	466.0	467.3	466.0
62.5°	419.3	420.7	418.7	418.7	417.3
65°	369.3	370.7	368.7	368.7	367.3
67.5°	318.0	320.0	317.3	317.3	316.0
70°	264.7	268.7	266.0	266.7	265.3
72.5°	216.7	218.7	216.0	216.0	214.7
75°	168.7	170.0	167.3	168.0	166.0
77.5°	121.3	123.3	120.7	121.3	120.7
80°	81.3	82.0	80.0	80.7	79.3
82.5°	47.3	48.0	47.3	46.7	46.0
85°	21.3	22.0	21.3	21.3	20.7
87.5°	5.3	5.3	5.3	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)