

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: P974017

Luminaire Tested: FLR2-22-35HE-L950-CP080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974017  
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-CP080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

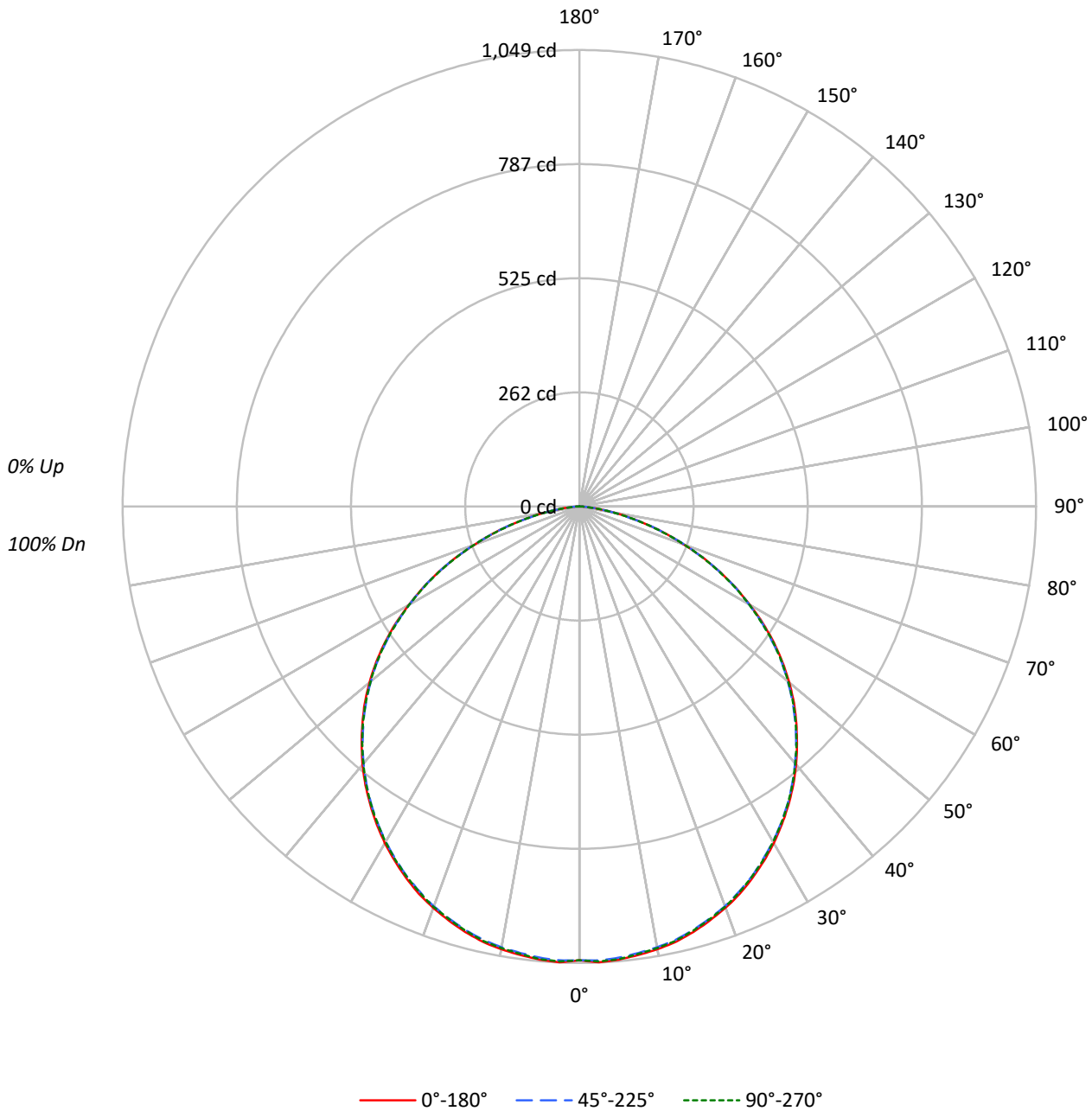
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2916.3 lumens  
Efficiency: N/A  
Efficacy: 107.2 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°	2806	2806	2806
5°	2824	2812	2820
10°	2823	2811	2816
15°	2821	2808	2812
20°	2811	2800	2804
25°	2796	2784	2787
30°	2776	2764	2766
35°	2751	2740	2742
40°	2722	2708	2710
45°	2682	2669	2674
50°	2635	2616	2621
55°	2560	2539	2548
60°	2434	2423	2423
65°	2272	2268	2260
70°	2012	2022	2017
75°	1695	1681	1668
80°	1218	1198	1187
85°	636	636	618

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2682 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.7	3.4
10°-20°	284.0	9.7
20°-30°	431.5	14.8
30°-40°	521.6	17.9
40°-50°	541.4	18.6
50°-60°	484.0	16.6
60°-70°	351.9	12.1
70°-80°	173.1	5.9
80°-90°	30.0	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°	814.3	27.9
0°-40°	1335.9	45.8
0°-60°	2361.3	81.0
0°-90°	2916.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2916.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1045	1033	1041	1037	1044	99
15°	1012	1001	1008	1006	1009	286
25°	942	931	938	936	938	434
35°	837	832	834	835	835	524
45°	705	701	701	703	703	544
55°	546	542	541	542	543	486
65°	357	358	356	356	355	352
75°	163	164	162	162	160	173
85°	21	21	21	21	20	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1042.8	1042.8	1042.8	1042.8	1042.8
2.5°	1048.6	1036.4	1044.1	1039.6	1046.7
5°	1045.4	1033.2	1040.9	1037.0	1044.1
7.5°	1039.6	1027.4	1035.1	1031.2	1037.0
10°	1033.2	1020.3	1028.6	1024.8	1030.6
12.5°	1024.8	1012.5	1020.3	1017.0	1022.2
15°	1012.5	1000.9	1008.0	1005.5	1009.3
17.5°	997.7	986.1	993.2	991.3	994.5
20°	981.6	970.7	977.8	975.8	979.0
22.5°	963.6	952.0	958.4	957.1	959.7
25°	941.7	931.4	937.8	935.9	938.5
27.5°	918.5	908.8	914.0	914.0	915.3
30°	893.4	884.4	889.5	889.5	890.2
32.5°	866.3	859.2	862.5	863.1	863.1
35°	837.3	831.5	834.1	834.8	834.8
37.5°	807.1	801.3	803.2	804.5	804.5
40°	774.9	769.7	771.0	772.3	771.6
42.5°	740.1	736.2	736.9	738.2	738.2
45°	704.7	701.4	701.4	702.7	702.7
47.5°	668.6	665.4	664.1	665.4	665.4
50°	629.3	626.1	624.8	626.1	626.1
52.5°	588.1	584.9	584.9	584.9	585.5
55°	545.6	542.3	541.1	542.3	543.0
57.5°	500.5	499.2	497.3	497.9	496.0
60°	452.2	452.2	450.2	451.5	450.2
62.5°	405.1	406.4	404.5	404.5	403.2
65°	356.8	358.1	356.2	356.2	354.9
67.5°	307.2	309.2	306.6	306.6	305.3
70°	255.7	259.6	257.0	257.6	256.4
72.5°	209.3	211.3	208.7	208.7	207.4
75°	163.0	164.2	161.7	162.3	160.4
77.5°	117.2	119.2	116.6	117.2	116.6
80°	78.6	79.2	77.3	77.9	76.6
82.5°	45.7	46.4	45.7	45.1	44.4
85°	20.6	21.3	20.6	20.6	20.0
87.5°	5.2	5.2	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)