

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: P973772

Luminaire Tested: FLR2-22-45HE-L930-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973772  
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: FLR2-22-45HE-L930-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

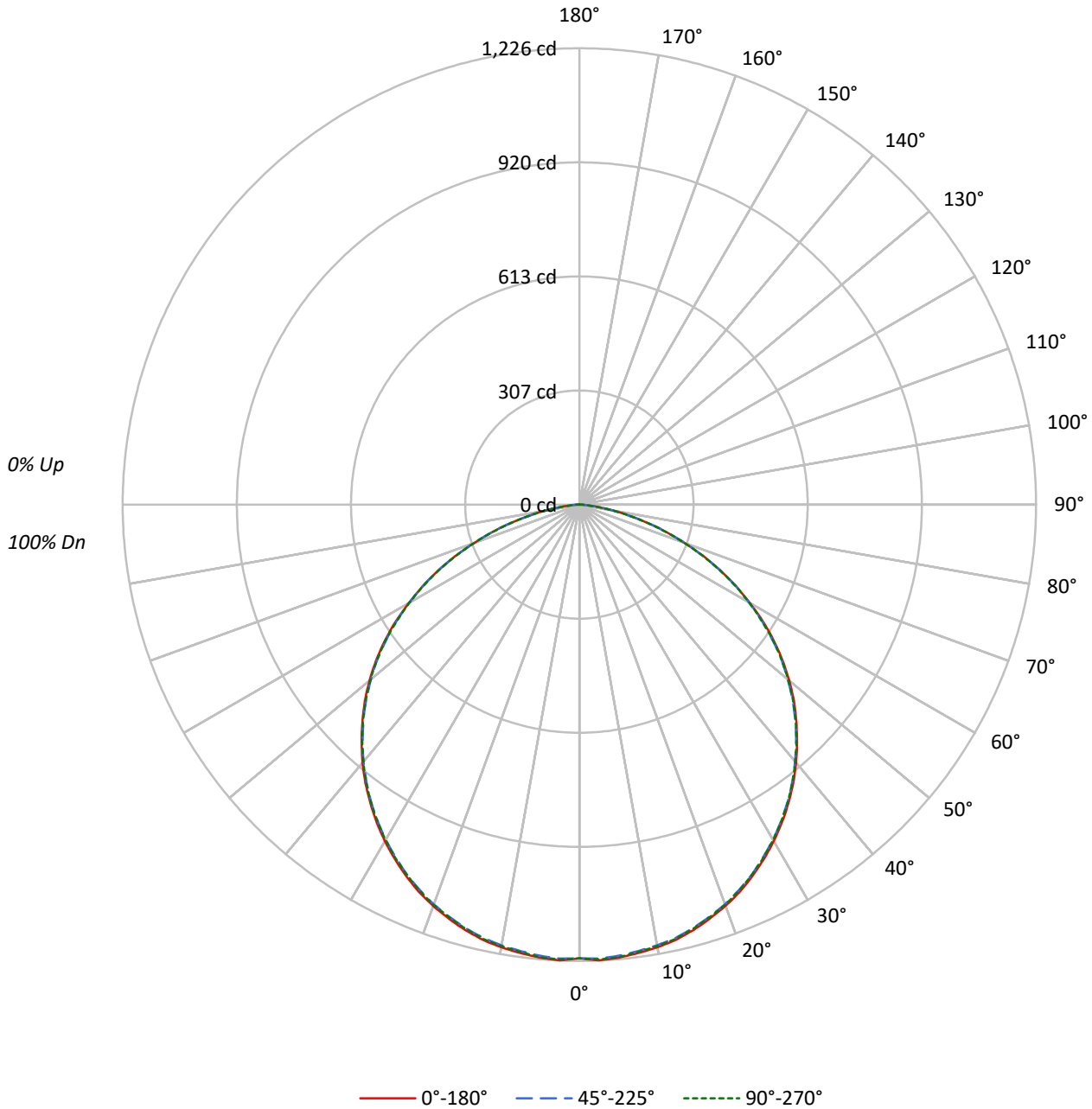
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3408.4 lumens  
Efficiency: N/A  
Efficacy: 94.2 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): 36.2  
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°	3280	3280	3280
5°	3300	3286	3296
10°	3299	3285	3291
15°	3297	3282	3286
20°	3285	3273	3277
25°	3268	3255	3257
30°	3244	3230	3233
35°	3215	3203	3205
40°	3181	3165	3168
45°	3134	3120	3126
50°	3079	3057	3063
55°	2991	2967	2977
60°	2844	2832	2832
65°	2656	2651	2641
70°	2352	2364	2357
75°	1981	1965	1948
80°	1423	1399	1389
85°	744	744	719

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3134 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.4	3.4
10°-20°	331.9	9.7
20°-30°	504.4	14.8
30°-40°	609.6	17.9
40°-50°	632.7	18.6
50°-60°	565.7	16.6
60°-70°	411.3	12.1
70°-80°	202.3	5.9
80°-90°	35.1	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°	951.7	27.9
0°-40°	1561.3	45.8
0°-60°	2759.7	81.0
0°-90°	3408.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3408.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1222	1208	1216	1212	1220	116
15°	1183	1170	1178	1175	1180	334
25°	1101	1089	1096	1094	1097	507
35°	979	972	975	976	976	612
45°	824	820	820	821	821	635
55°	638	634	632	634	635	568
65°	417	419	416	416	415	411
75°	190	192	189	190	187	202
85°	24	25	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°	1218.8	1218.8	1218.8	1218.8	1218.8
2.5°	1225.6	1211.3	1220.3	1215.0	1223.3
5°	1221.8	1207.5	1216.5	1212.0	1220.3
7.5°	1215.0	1200.7	1209.8	1205.2	1212.0
10°	1207.5	1192.4	1202.2	1197.7	1204.5
12.5°	1197.7	1183.4	1192.4	1188.7	1194.7
15°	1183.4	1169.9	1178.1	1175.1	1179.6
17.5°	1166.1	1152.5	1160.8	1158.6	1162.3
20°	1147.3	1134.5	1142.8	1140.5	1144.3
22.5°	1126.2	1112.6	1120.2	1118.7	1121.7
25°	1100.6	1088.6	1096.1	1093.8	1096.8
27.5°	1073.5	1062.2	1068.2	1068.2	1069.7
30°	1044.1	1033.6	1039.6	1039.6	1040.4
32.5°	1012.5	1004.2	1008.0	1008.8	1008.8
35°	978.6	971.9	974.9	975.6	975.6
37.5°	943.3	936.5	938.7	940.3	940.3
40°	905.6	899.6	901.1	902.6	901.9
42.5°	865.0	860.5	861.2	862.7	862.7
45°	823.6	819.8	819.8	821.3	821.3
47.5°	781.4	777.6	776.1	777.6	777.6
50°	735.5	731.7	730.2	731.7	731.7
52.5°	687.3	683.5	683.5	683.5	684.3
55°	637.6	633.9	632.4	633.9	634.6
57.5°	584.9	583.4	581.2	581.9	579.7
60°	528.5	528.5	526.2	527.7	526.2
62.5°	473.5	475.0	472.8	472.8	471.3
65°	417.1	418.6	416.3	416.3	414.8
67.5°	359.1	361.3	358.3	358.3	356.8
70°	298.9	303.4	300.4	301.1	299.6
72.5°	244.7	246.9	243.9	243.9	242.4
75°	190.5	192.0	189.0	189.7	187.4
77.5°	137.0	139.3	136.3	137.0	136.3
80°	91.8	92.6	90.3	91.1	89.6
82.5°	53.4	54.2	53.4	52.7	51.9
85°	24.1	24.8	24.1	24.1	23.3
87.5°	6.0	6.0	6.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)