

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: P973802

Luminaire Tested: FLR2-22-45HE-L930-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973802  
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-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

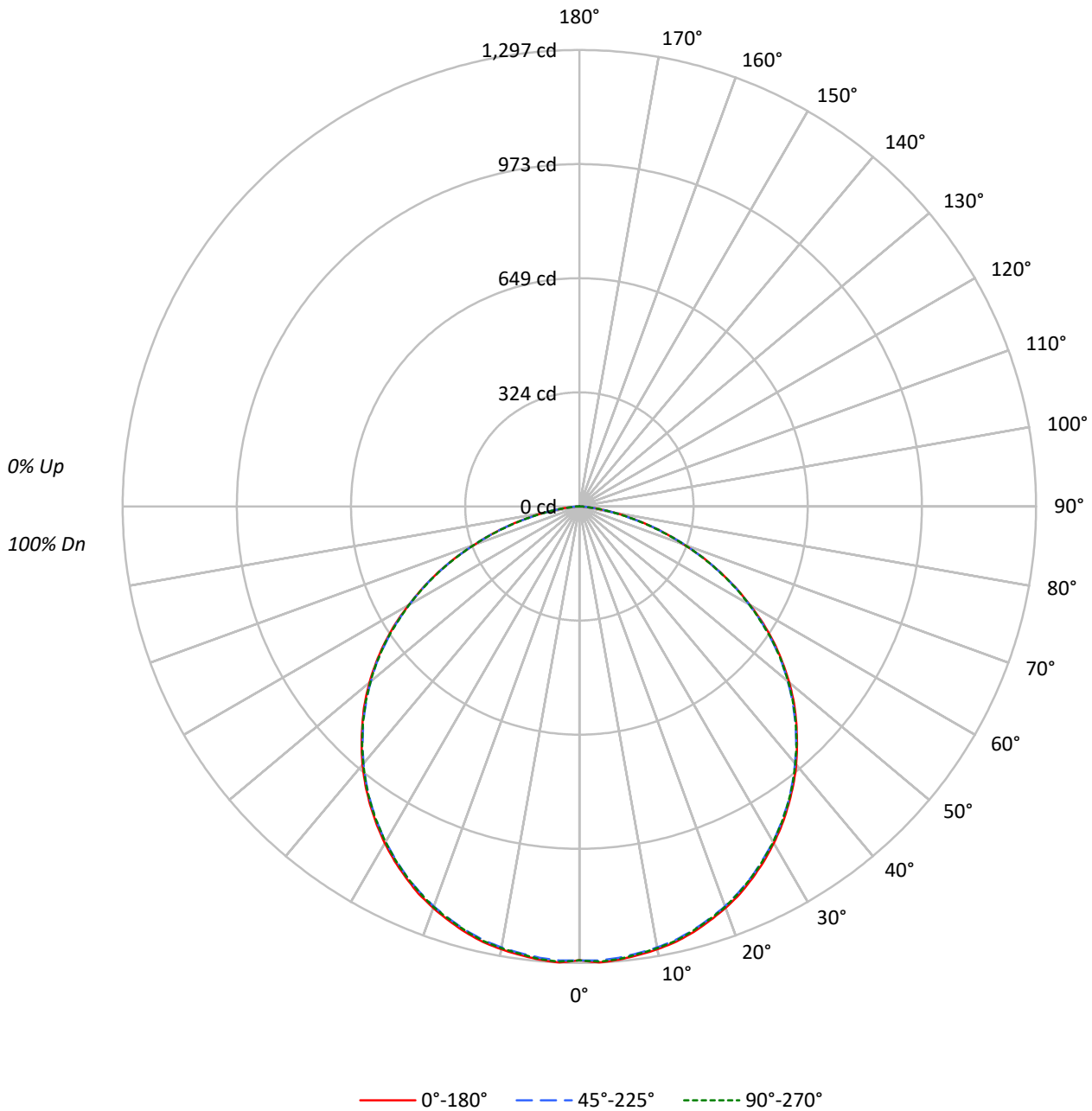
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3606.5 lumens  
Efficiency: N/A  
Efficacy: 99.6 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 (A<sub>in</sub>): 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°	3470	3470	3470
5°	3492	3477	3488
10°	3491	3476	3483
15°	3489	3473	3477
20°	3477	3463	3467
25°	3458	3444	3446
30°	3433	3418	3420
35°	3402	3389	3391
40°	3366	3349	3352
45°	3316	3301	3307
50°	3258	3235	3242
55°	3165	3139	3150
60°	3010	2997	2997
65°	2810	2805	2795
70°	2488	2500	2494
75°	2095	2078	2062
80°	1506	1481	1469
85°	787	787	763

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3316 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.1	3.4
10°-20°	351.2	9.7
20°-30°	533.7	14.8
30°-40°	645.0	17.9
40°-50°	669.5	18.6
50°-60°	598.6	16.6
60°-70°	435.2	12.1
70°-80°	214.0	5.9
80°-90°	37.1	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°	1007.0	27.9
0°-40°	1652.0	45.8
0°-60°	2920.1	81.0
0°-90°	3606.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3606.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1290	1290	1290	1290	1290	
5°	1293	1278	1287	1282	1291	123
15°	1252	1238	1247	1243	1248	353
25°	1165	1152	1160	1157	1161	537
35°	1036	1028	1032	1032	1032	648
45°	871	867	867	869	869	672
55°	675	671	669	671	672	601
65°	441	443	440	440	439	435
75°	202	203	200	201	198	214
85°	26	26	26	26	25	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1289.6	1289.6	1289.6	1289.6	1289.6
2.5°	1296.8	1281.7	1291.2	1285.6	1294.4
5°	1292.8	1277.7	1287.2	1282.5	1291.2
7.5°	1285.6	1270.5	1280.1	1275.3	1282.5
10°	1277.7	1261.7	1272.1	1267.3	1274.5
12.5°	1267.3	1252.2	1261.7	1257.8	1264.1
15°	1252.2	1237.8	1246.6	1243.4	1248.2
17.5°	1233.9	1219.5	1228.3	1225.9	1229.9
20°	1214.0	1200.4	1209.2	1206.8	1210.8
22.5°	1191.6	1177.3	1185.3	1183.7	1186.9
25°	1164.6	1151.8	1159.8	1157.4	1160.6
27.5°	1135.9	1123.9	1130.3	1130.3	1131.9
30°	1104.8	1093.7	1100.0	1100.0	1100.8
32.5°	1071.4	1062.6	1066.6	1067.4	1067.4
35°	1035.5	1028.4	1031.5	1032.3	1032.3
37.5°	998.1	990.9	993.3	994.9	994.9
40°	958.3	951.9	953.5	955.1	954.3
42.5°	915.2	910.5	911.3	912.9	912.9
45°	871.4	867.4	867.4	869.0	869.0
47.5°	826.8	822.8	821.2	822.8	822.8
50°	778.2	774.3	772.7	774.3	774.3
52.5°	727.3	723.3	723.3	723.3	724.1
55°	674.7	670.7	669.1	670.7	671.5
57.5°	618.9	617.3	614.9	615.7	613.3
60°	559.2	559.2	556.8	558.4	556.8
62.5°	501.0	502.6	500.2	500.2	498.6
65°	441.3	442.9	440.5	440.5	438.9
67.5°	380.0	382.3	379.2	379.2	377.6
70°	316.2	321.0	317.8	318.6	317.0
72.5°	258.9	261.3	258.1	258.1	256.5
75°	201.5	203.1	199.9	200.7	198.3
77.5°	145.0	147.4	144.2	145.0	144.2
80°	97.2	98.0	95.6	96.4	94.8
82.5°	56.6	57.4	56.6	55.8	55.0
85°	25.5	26.3	25.5	25.5	24.7
87.5°	6.4	6.4	6.4	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)