

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: P974024

Luminaire Tested: FLR2-22-45HE-L950-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974024  
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-L950-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

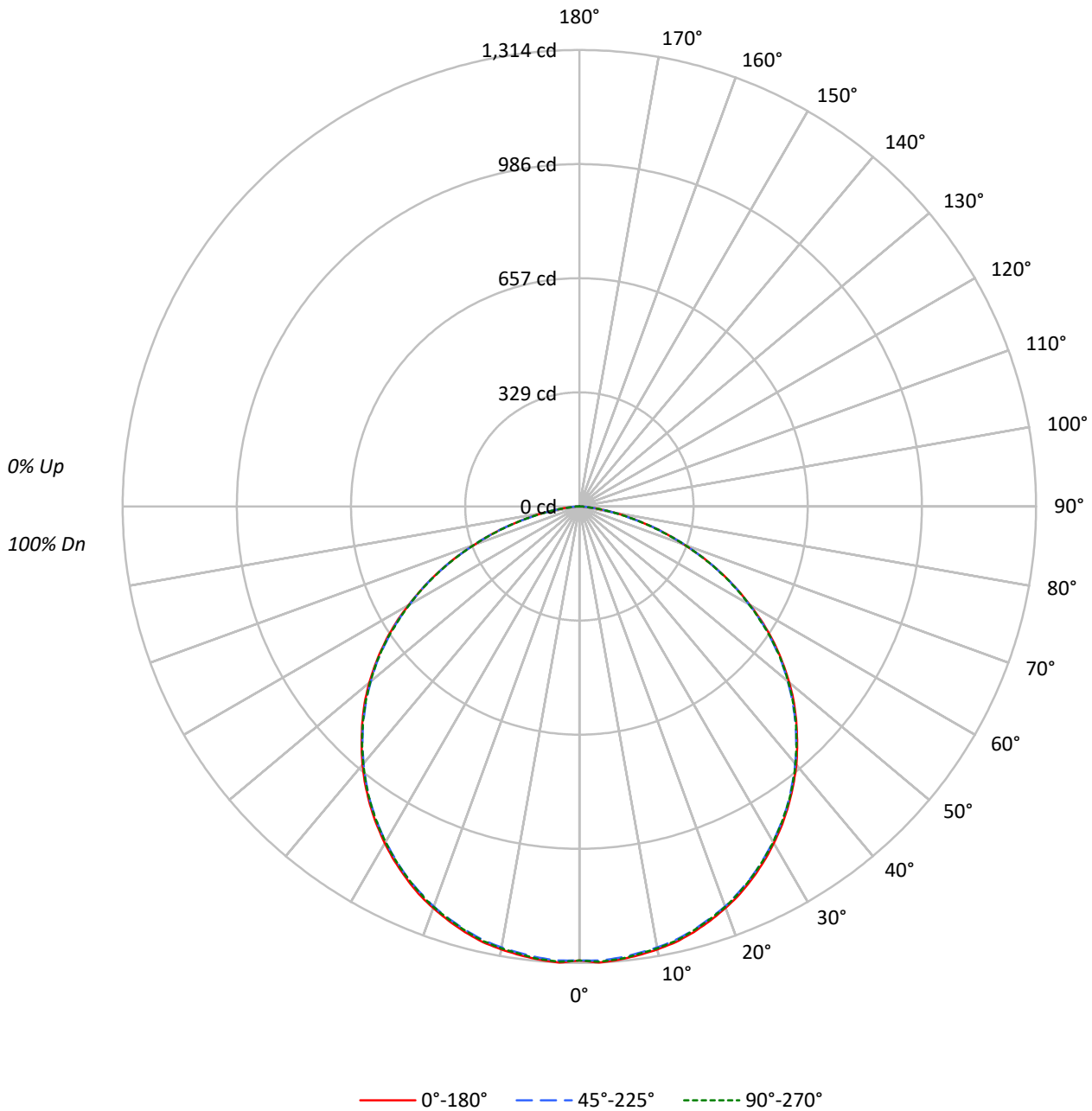
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3654.8 lumens  
Efficiency: N/A  
Efficacy: 101.0 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): 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				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	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°	3517	3517	3517
5°	3539	3524	3535
10°	3538	3522	3529
15°	3535	3519	3524
20°	3523	3509	3514
25°	3504	3490	3492
30°	3479	3464	3466
35°	3447	3434	3437
40°	3411	3394	3397
45°	3361	3346	3352
50°	3302	3278	3285
55°	3208	3181	3193
60°	3050	3037	3037
65°	2848	2842	2832
70°	2522	2534	2528
75°	2123	2106	2090
80°	1526	1502	1489
85°	797	797	772

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3361 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.8	3.4
10°-20°	355.9	9.7
20°-30°	540.8	14.8
30°-40°	653.7	17.9
40°-50°	678.5	18.6
50°-60°	606.6	16.6
60°-70°	441.0	12.1
70°-80°	216.9	5.9
80°-90°	37.6	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°	1020.5	27.9
0°-40°	1674.1	45.8
0°-60°	2959.3	81.0
0°-90°	3654.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3654.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1307	1307	1307	1307	1307	
5°	1310	1295	1304	1300	1308	125
15°	1269	1254	1263	1260	1265	358
25°	1180	1167	1175	1173	1176	544
35°	1049	1042	1045	1046	1046	657
45°	883	879	879	881	881	681
55°	684	680	678	680	680	609
65°	447	449	446	446	445	441
75°	204	206	203	203	201	217
85°	26	27	26	26	25	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1306.9	1306.9	1306.9	1306.9	1306.9
2.5°	1314.2	1298.8	1308.5	1302.9	1311.7
5°	1310.1	1294.8	1304.5	1299.6	1308.5
7.5°	1302.9	1287.5	1297.2	1292.4	1299.6
10°	1294.8	1278.6	1289.1	1284.3	1291.6
12.5°	1284.3	1269.0	1278.6	1274.6	1281.1
15°	1269.0	1254.4	1263.3	1260.1	1264.9
17.5°	1250.4	1235.9	1244.7	1242.3	1246.4
20°	1230.2	1216.5	1225.4	1222.9	1227.0
22.5°	1207.6	1193.1	1201.1	1199.5	1202.8
25°	1180.2	1167.2	1175.3	1172.9	1176.1
27.5°	1151.1	1139.0	1145.4	1145.4	1147.1
30°	1119.6	1108.3	1114.8	1114.8	1115.6
32.5°	1085.7	1076.8	1080.9	1081.7	1081.7
35°	1049.4	1042.1	1045.4	1046.2	1046.2
37.5°	1011.4	1004.2	1006.6	1008.2	1008.2
40°	971.1	964.6	966.2	967.9	967.1
42.5°	927.5	922.7	923.5	925.1	925.1
45°	883.1	879.1	879.1	880.7	880.7
47.5°	837.9	833.9	832.2	833.9	833.9
50°	788.7	784.6	783.0	784.6	784.6
52.5°	737.0	733.0	733.0	733.0	733.8
55°	683.7	679.7	678.1	679.7	680.5
57.5°	627.2	625.6	623.2	624.0	621.6
60°	566.7	566.7	564.2	565.9	564.2
62.5°	507.7	509.4	506.9	506.9	505.3
65°	447.2	448.8	446.4	446.4	444.8
67.5°	385.0	387.5	384.2	384.2	382.6
70°	320.5	325.3	322.1	322.9	321.3
72.5°	262.3	264.8	261.5	261.5	259.9
75°	204.2	205.8	202.6	203.4	201.0
77.5°	146.9	149.3	146.1	146.9	146.1
80°	98.5	99.3	96.9	97.7	96.1
82.5°	57.3	58.1	57.3	56.5	55.7
85°	25.8	26.6	25.8	25.8	25.0
87.5°	6.5	6.5	6.5	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)