

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: P975064

Luminaire Tested: FLR2-24-90HE-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-90HE-L950-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

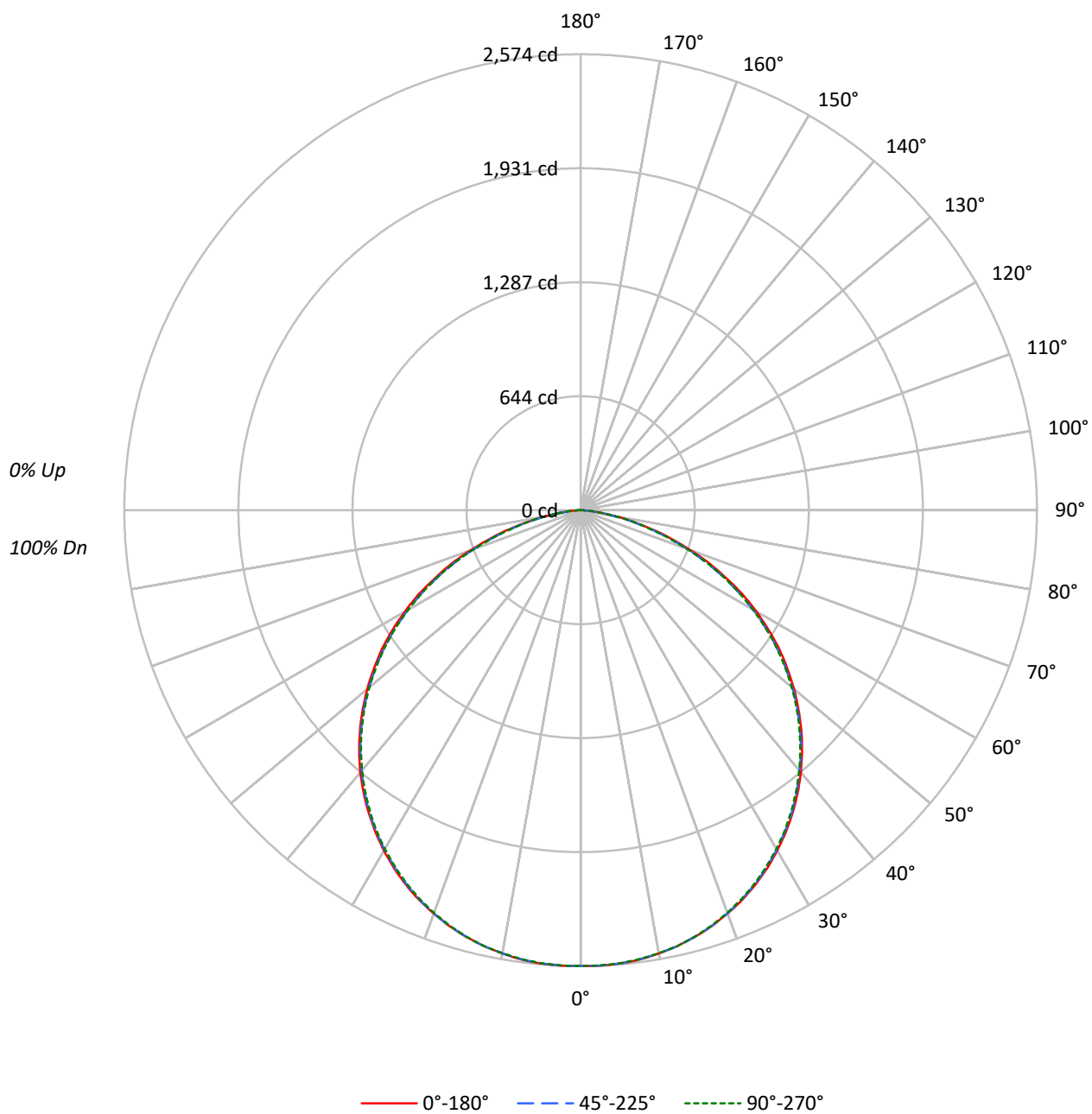
Lumens per Lamp: N/A
Luminaire Lumens: 7274.8 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.3
Input Voltage (V):
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

TEST NUMBER: P975064

CATALOG NUMBER: FLR2-24-90HE-L950-CP125

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3463	3463	3463
5°	3470	3470	3468
10°	3472	3471	3470
15°	3473	3472	3472
20°	3470	3469	3463
25°	3463	3457	3451
30°	3448	3438	3431
35°	3425	3416	3404
40°	3395	3374	3369
45°	3351	3332	3321
50°	3288	3263	3253
55°	3211	3165	3161
60°	3077	3022	3022
65°	2879	2811	2820
70°	2591	2511	2503
75°	2175	2088	2079
80°	1588	1510	1574
85°	898	827	841

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3351 cd/sqm

TEST NUMBER: P975064

CATALOG NUMBER: FLR2-24-90HE-L950-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	3.4
10°-20°	703.9	9.7
20°-30°	1073.1	14.8
30°-40°	1300.2	17.9
40°-50°	1350.6	18.6
50°-60°	1208.2	16.6
60°-70°	880.5	12.1
70°-80°	436.1	6.0
80°-90°	78.0	1.1
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°	2021.3	27.8
0°-40°	3321.5	45.7
0°-60°	5880.2	80.8
0°-90°	7274.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7274.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2574	2574	2574	2574	2574	
5°	2569	2570	2569	2569	2568	244
15°	2494	2493	2493	2494	2493	704
25°	2333	2330	2328	2327	2325	1075
35°	2085	2083	2080	2076	2072	1304
45°	1761	1758	1751	1747	1746	1357
55°	1369	1358	1349	1349	1348	1219
65°	904	897	883	887	886	896
75°	418	412	402	409	400	446
85°	58	54	54	54	54	81
90°	0	0	0	0	0	

TEST NUMBER: P975064

CATALOG NUMBER: FLR2-24-90HE-L950-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2573.9	2573.9	2573.9	2573.9	2573.9
2.5°	2573.9	2573.0	2573.0	2573.9	2572.1
5°	2569.3	2570.2	2569.3	2569.3	2567.5
7.5°	2559.2	2558.2	2557.3	2558.2	2555.5
10°	2541.6	2541.6	2540.7	2541.6	2539.8
12.5°	2520.4	2520.4	2520.4	2521.3	2520.4
15°	2493.6	2492.7	2492.7	2494.5	2492.7
17.5°	2462.2	2461.3	2461.3	2460.3	2458.5
20°	2423.4	2423.4	2422.5	2421.6	2418.8
22.5°	2381.8	2380.9	2378.1	2378.1	2374.5
25°	2332.9	2330.1	2328.3	2327.4	2324.6
27.5°	2279.3	2275.6	2272.9	2271.0	2268.2
30°	2219.3	2215.6	2212.8	2210.1	2208.2
32.5°	2154.6	2152.8	2148.2	2147.3	2143.6
35°	2085.4	2082.6	2079.8	2076.1	2072.5
37.5°	2011.5	2008.7	2002.3	2000.4	1997.6
40°	1933.0	1929.3	1921.0	1921.0	1918.2
42.5°	1849.0	1845.3	1839.7	1836.0	1834.2
45°	1761.2	1757.5	1751.1	1747.4	1745.5
47.5°	1667.9	1665.2	1657.8	1655.0	1652.2
50°	1571.0	1567.3	1559.0	1557.1	1554.3
52.5°	1469.4	1467.5	1456.4	1455.5	1452.7
55°	1368.7	1358.5	1349.3	1349.3	1347.5
57.5°	1257.9	1250.5	1238.5	1238.5	1236.6
60°	1143.4	1136.9	1123.0	1124.9	1123.0
62.5°	1031.6	1017.8	1004.8	1010.4	1005.7
65°	904.2	896.8	882.9	886.6	885.7
67.5°	787.8	773.9	761.0	768.4	764.7
70°	658.5	651.1	638.2	645.6	636.3
72.5°	536.6	530.1	517.2	525.5	516.3
75°	418.4	411.9	401.7	409.1	399.9
77.5°	306.6	302.0	292.8	300.2	302.0
80°	205.0	199.5	194.9	201.3	203.2
82.5°	120.1	116.4	114.5	115.4	120.1
85°	58.2	53.6	53.6	54.5	54.5
87.5°	15.7	13.9	15.7	16.6	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)