

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: P974237

Luminaire Tested: FLR2-24-45-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974237
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: FLR2-24-45-L935-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-45-L935-CP125
Ballast/Driver: -

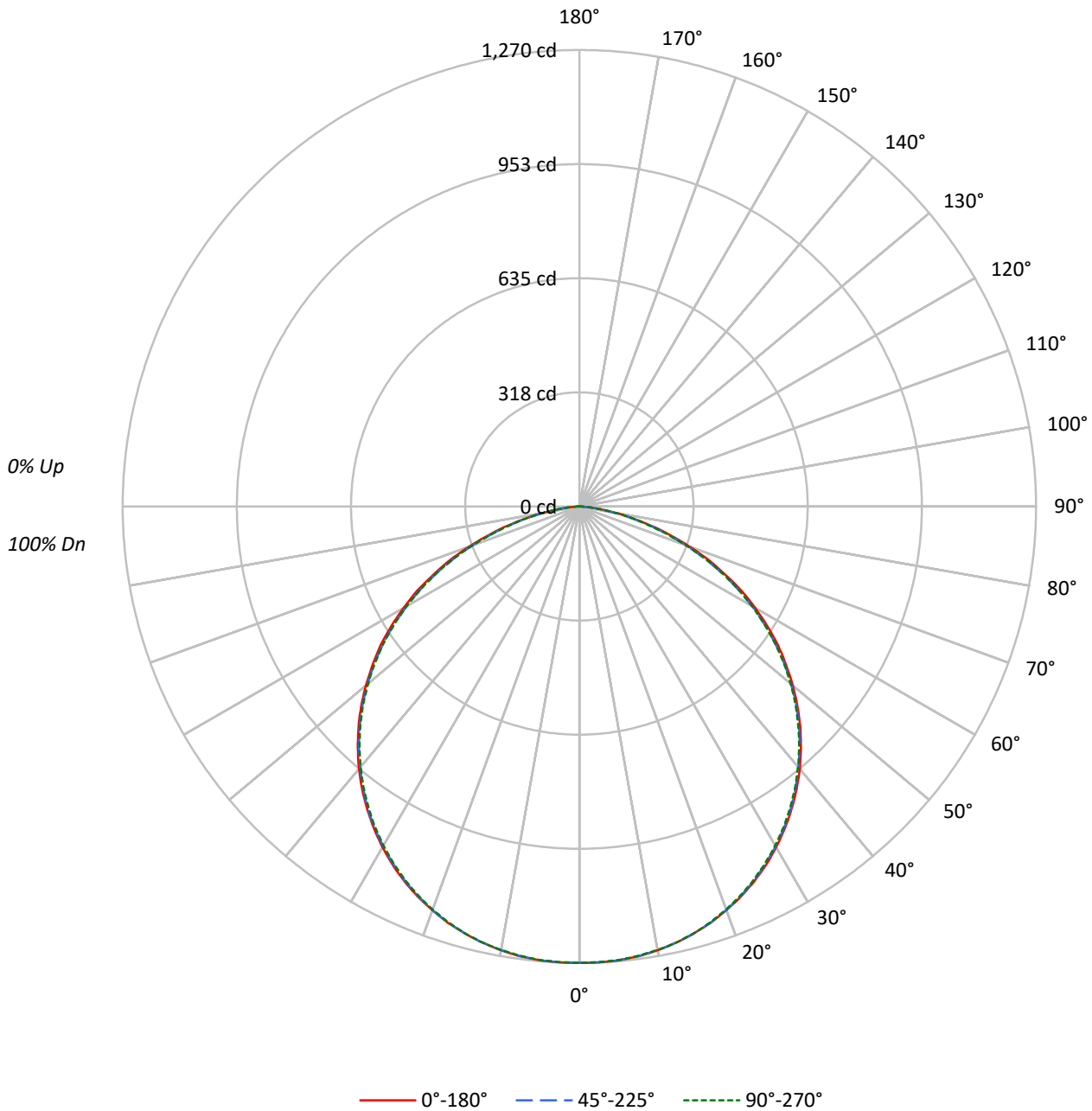
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3588.6 lumens
Efficiency: N/A
Efficacy: 100.8 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): 35.6
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

TEST NUMBER: P974237
CATALOG NUMBER: FLR2-24-45-L935-CP125

Luminous Intensity Polar Plot





TEST NUMBER: P974237
 CATALOG NUMBER: FLR2-24-45-L935-CP125

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1708	1708	1708
5°	1712	1712	1711
10°	1713	1712	1712
15°	1713	1713	1713
20°	1712	1711	1708
25°	1708	1705	1702
30°	1701	1696	1692
35°	1690	1685	1679
40°	1675	1664	1662
45°	1653	1644	1639
50°	1622	1610	1605
55°	1584	1561	1559
60°	1518	1491	1491
65°	1420	1387	1391
70°	1278	1238	1235
75°	1073	1030	1026
80°	783	745	776
85°	443	408	415

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1653 cd/sqm



TEST NUMBER: P974237
 CATALOG NUMBER: FLR2-24-45-L935-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	3.4
10°-20°	347.2	9.7
20°-30°	529.4	14.8
30°-40°	641.4	17.9
40°-50°	666.2	18.6
50°-60°	596.0	16.6
60°-70°	434.4	12.1
70°-80°	215.1	6.0
80°-90°	38.4	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°	997.1	27.8
0°-40°	1638.5	45.7
0°-60°	2900.7	80.8
0°-90°	3588.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3588.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1267	1268	1267	1267	1266	121
15°	1230	1230	1230	1230	1230	347
25°	1151	1149	1148	1148	1147	530
35°	1029	1027	1026	1024	1022	643
45°	869	867	864	862	861	670
55°	675	670	666	666	665	602
65°	446	442	436	437	437	442
75°	206	203	198	202	197	220
85°	29	26	26	27	27	40
90°	0	0	0	0	0	



TEST NUMBER: P974237
 CATALOG NUMBER: FLR2-24-45-L935-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.7	1269.7	1269.7	1269.7	1269.7
2.5°	1269.7	1269.3	1269.3	1269.7	1268.8
5°	1267.4	1267.9	1267.4	1267.4	1266.5
7.5°	1262.4	1262.0	1261.5	1262.0	1260.6
10°	1253.8	1253.8	1253.3	1253.8	1252.9
12.5°	1243.3	1243.3	1243.3	1243.7	1243.3
15°	1230.1	1229.6	1229.6	1230.5	1229.6
17.5°	1214.6	1214.1	1214.1	1213.7	1212.8
20°	1195.4	1195.4	1195.0	1194.5	1193.2
22.5°	1174.9	1174.5	1173.1	1173.1	1171.3
25°	1150.8	1149.4	1148.5	1148.1	1146.7
27.5°	1124.4	1122.6	1121.2	1120.3	1118.9
30°	1094.8	1092.9	1091.6	1090.2	1089.3
32.5°	1062.9	1062.0	1059.7	1059.2	1057.4
35°	1028.7	1027.3	1026.0	1024.2	1022.3
37.5°	992.3	990.9	987.7	986.8	985.4
40°	953.5	951.7	947.6	947.6	946.2
42.5°	912.1	910.3	907.5	905.7	904.8
45°	868.8	867.0	863.8	862.0	861.1
47.5°	822.8	821.4	817.8	816.4	815.0
50°	774.9	773.1	769.0	768.1	766.7
52.5°	724.8	723.9	718.5	718.0	716.6
55°	675.2	670.2	665.6	665.6	664.7
57.5°	620.5	616.9	610.9	610.9	610.0
60°	564.0	560.8	554.0	554.9	554.0
62.5°	508.9	502.1	495.7	498.4	496.1
65°	446.0	442.4	435.5	437.4	436.9
67.5°	388.6	381.8	375.4	379.0	377.2
70°	324.8	321.2	314.8	318.5	313.9
72.5°	264.7	261.5	255.1	259.2	254.7
75°	206.4	203.2	198.2	201.8	197.3
77.5°	151.3	149.0	144.4	148.1	149.0
80°	101.1	98.4	96.1	99.3	100.2
82.5°	59.2	57.4	56.5	56.9	59.2
85°	28.7	26.4	26.4	26.9	26.9
87.5°	7.7	6.8	7.7	8.2	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)