

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: P973672

Luminaire Tested: FLR2-22-45-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973672
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: FLR2-22-45-L850-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

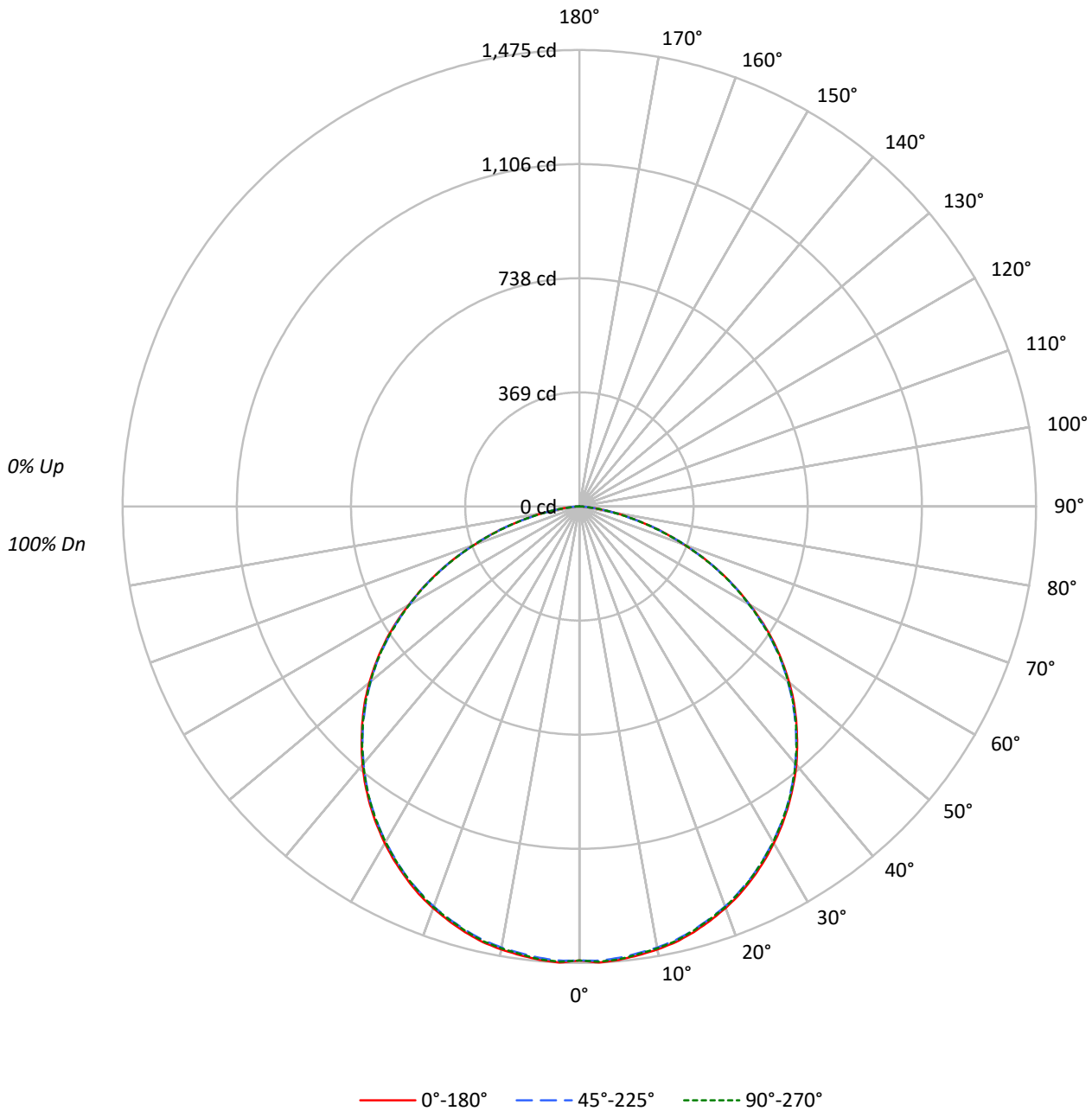
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4102.7 lumens
Efficiency: N/A
Efficacy: 113.6 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): 36.1
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: P973672
CATALOG NUMBER: FLR2-22-45-L850-CP125

Luminous Intensity Polar Plot





TEST NUMBER: P973672
 CATALOG NUMBER: FLR2-22-45-L850-CP125

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°	3948	3948	3948
5°	3973	3956	3968
10°	3972	3954	3962
15°	3969	3951	3956
20°	3955	3939	3944
25°	3934	3918	3920
30°	3905	3888	3891
35°	3870	3855	3858
40°	3829	3810	3814
45°	3773	3755	3762
50°	3706	3680	3687
55°	3601	3571	3584
60°	3423	3409	3409
65°	3196	3191	3179
70°	2830	2845	2838
75°	2384	2364	2346
80°	1714	1684	1671
85°	895	895	868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3773 cd/sqm



TEST NUMBER: P973672
 CATALOG NUMBER: FLR2-22-45-L850-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	3.4
10°-20°	399.5	9.7
20°-30°	607.1	14.8
30°-40°	733.8	17.9
40°-50°	761.7	18.6
50°-60°	681.0	16.6
60°-70°	495.1	12.1
70°-80°	243.5	5.9
80°-90°	42.2	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°	1145.5	27.9
0°-40°	1879.3	45.8
0°-60°	3322.0	81.0
0°-90°	4102.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4102.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1471	1454	1464	1459	1469	140
15°	1424	1408	1418	1414	1420	402
25°	1325	1310	1319	1317	1320	611
35°	1178	1170	1174	1174	1174	737
45°	991	987	987	989	989	765
55°	768	763	761	763	764	684
65°	502	504	501	501	499	495
75°	229	231	227	228	226	243
85°	29	30	29	29	28	42
90°	0	0	0	0	0	



TEST NUMBER: P973672
 CATALOG NUMBER: FLR2-22-45-L850-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1467.1	1467.1	1467.1	1467.1	1467.1
2.5°	1475.2	1458.0	1468.9	1462.5	1472.5
5°	1470.7	1453.5	1464.4	1458.9	1468.9
7.5°	1462.5	1445.3	1456.2	1450.8	1458.9
10°	1453.5	1435.4	1447.1	1441.7	1449.9
12.5°	1441.7	1424.5	1435.4	1430.8	1438.1
15°	1424.5	1408.2	1418.1	1414.5	1420.0
17.5°	1403.6	1387.3	1397.3	1394.6	1399.1
20°	1381.0	1365.6	1375.5	1372.8	1377.4
22.5°	1355.6	1339.3	1348.4	1346.6	1350.2
25°	1324.8	1310.3	1319.4	1316.6	1320.3
27.5°	1292.2	1278.6	1285.8	1285.8	1287.7
30°	1256.8	1244.2	1251.4	1251.4	1252.3
32.5°	1218.8	1208.8	1213.3	1214.3	1214.3
35°	1178.0	1169.9	1173.5	1174.4	1174.4
37.5°	1135.4	1127.3	1130.0	1131.8	1131.8
40°	1090.1	1082.9	1084.7	1086.5	1085.6
42.5°	1041.2	1035.7	1036.6	1038.5	1038.5
45°	991.3	986.8	986.8	988.6	988.6
47.5°	940.6	936.1	934.2	936.1	936.1
50°	885.3	880.8	879.0	880.8	880.8
52.5°	827.3	822.8	822.8	822.8	823.7
55°	767.5	763.0	761.2	763.0	763.9
57.5°	704.1	702.3	699.6	700.5	697.7
60°	636.1	636.1	633.4	635.2	633.4
62.5°	570.0	571.8	569.1	569.1	567.3
65°	502.0	503.8	501.1	501.1	499.3
67.5°	432.2	435.0	431.3	431.3	429.5
70°	359.7	365.2	361.6	362.5	360.7
72.5°	294.5	297.2	293.6	293.6	291.8
75°	229.3	231.1	227.4	228.4	225.6
77.5°	164.9	167.6	164.0	164.9	164.0
80°	110.6	111.5	108.7	109.6	107.8
82.5°	64.3	65.2	64.3	63.4	62.5
85°	29.0	29.9	29.0	29.0	28.1
87.5°	7.2	7.2	7.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)