

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: P974349

Luminaire Tested: FLR2-24-45-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974349
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-L940-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-45-L940-CP125
Ballast/Driver: -

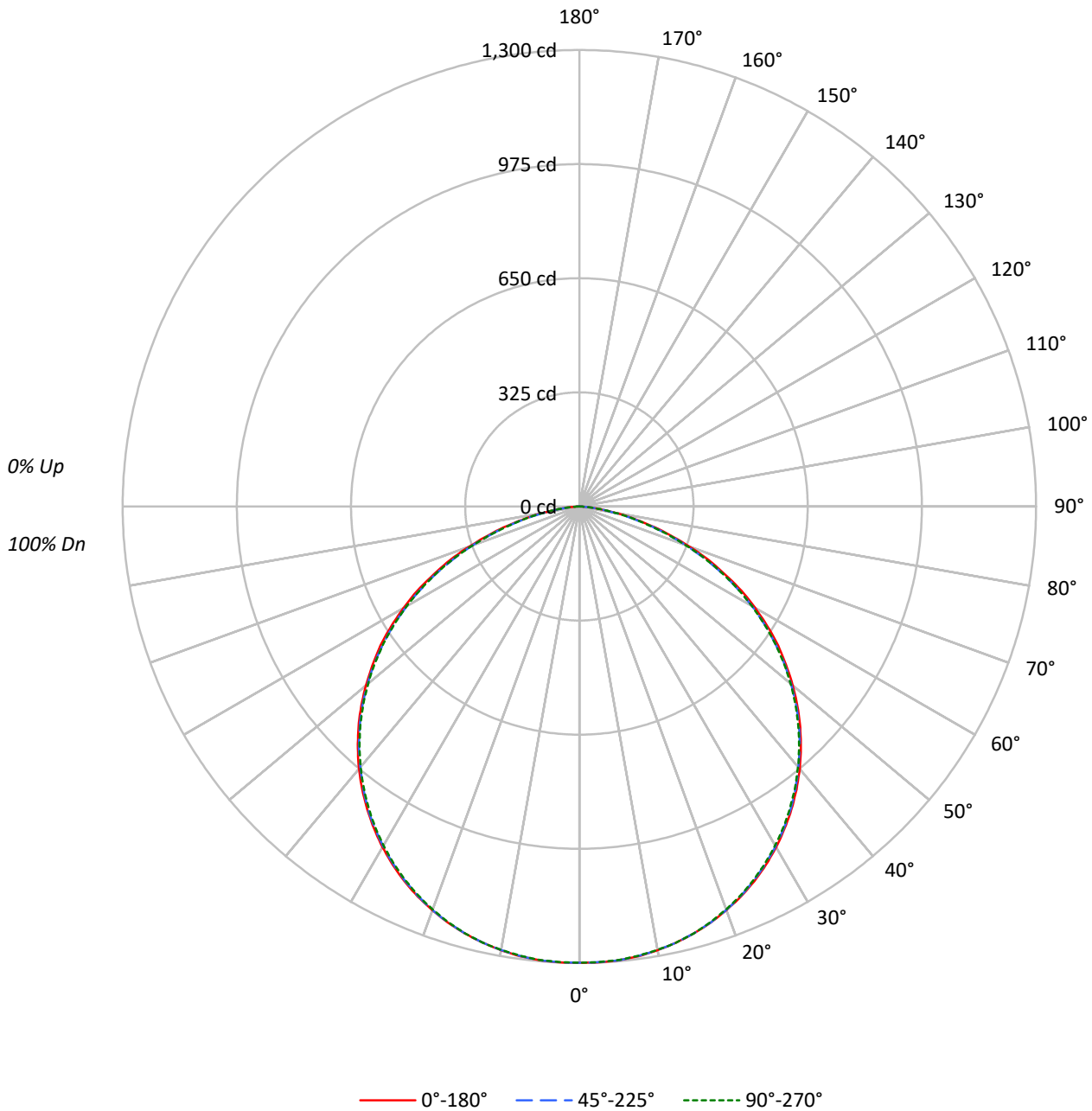
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3673.0 lumens
Efficiency: N/A
Efficacy: 103.2 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: P974349
CATALOG NUMBER: FLR2-24-45-L940-CP125

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	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°	1749	1749	1749
5°	1752	1752	1751
10°	1753	1753	1752
15°	1754	1753	1753
20°	1752	1751	1749
25°	1749	1745	1742
30°	1741	1736	1732
35°	1729	1725	1719
40°	1714	1704	1701
45°	1692	1682	1677
50°	1660	1648	1643
55°	1621	1598	1596
60°	1554	1526	1526
65°	1453	1419	1424
70°	1308	1268	1264
75°	1098	1054	1050
80°	802	762	795
85°	454	417	425

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1692 cd/sqm



TEST NUMBER: P974349
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	3.4
10°-20°	355.4	9.7
20°-30°	541.8	14.8
30°-40°	656.5	17.9
40°-50°	681.9	18.6
50°-60°	610.0	16.6
60°-70°	444.6	12.1
70°-80°	220.2	6.0
80°-90°	39.4	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°	1020.6	27.8
0°-40°	1677.0	45.7
0°-60°	2968.9	80.8
0°-90°	3673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1297	1298	1297	1297	1296	123
15°	1259	1259	1259	1260	1259	355
25°	1178	1176	1176	1175	1174	543
35°	1053	1052	1050	1048	1046	659
45°	889	887	884	882	881	685
55°	691	686	681	681	680	616
65°	456	453	446	448	447	453
75°	211	208	203	207	202	225
85°	29	27	27	28	28	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1299.6	1299.6	1299.6	1299.6	1299.6
2.5°	1299.6	1299.1	1299.1	1299.6	1298.7
5°	1297.3	1297.7	1297.3	1297.3	1296.3
7.5°	1292.1	1291.7	1291.2	1291.7	1290.3
10°	1283.3	1283.3	1282.8	1283.3	1282.3
12.5°	1272.5	1272.5	1272.5	1273.0	1272.5
15°	1259.0	1258.6	1258.6	1259.5	1258.6
17.5°	1243.2	1242.7	1242.7	1242.2	1241.3
20°	1223.6	1223.6	1223.1	1222.6	1221.2
22.5°	1202.6	1202.1	1200.7	1200.7	1198.9
25°	1177.9	1176.5	1175.5	1175.1	1173.7
27.5°	1150.8	1149.0	1147.6	1146.6	1145.2
30°	1120.5	1118.7	1117.3	1115.9	1114.9
32.5°	1087.9	1087.0	1084.6	1084.2	1082.3
35°	1052.9	1051.5	1050.1	1048.2	1046.4
37.5°	1015.6	1014.2	1010.9	1010.0	1008.6
40°	976.0	974.1	969.9	969.9	968.5
42.5°	933.5	931.7	928.9	927.0	926.1
45°	889.2	887.4	884.1	882.2	881.3
47.5°	842.1	840.7	837.0	835.6	834.2
50°	793.2	791.3	787.1	786.2	784.8
52.5°	741.9	741.0	735.4	734.9	733.5
55°	691.1	685.9	681.3	681.3	680.3
57.5°	635.1	631.4	625.3	625.3	624.4
60°	577.3	574.0	567.0	568.0	567.0
62.5°	520.9	513.9	507.3	510.1	507.8
65°	456.5	452.8	445.8	447.7	447.2
67.5°	397.8	390.8	384.2	388.0	386.1
70°	332.5	328.7	322.2	325.9	321.3
72.5°	270.9	267.7	261.1	265.3	260.7
75°	211.2	208.0	202.8	206.6	201.9
77.5°	154.8	152.5	147.8	151.5	152.5
80°	103.5	100.7	98.4	101.7	102.6
82.5°	60.6	58.8	57.8	58.3	60.6
85°	29.4	27.0	27.0	27.5	27.5
87.5°	7.9	7.0	7.9	8.4	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)