

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: P974460

Luminaire Tested: FLR2-24-40-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974460
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: FLR2-24-40-L950-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L950-CP125
Ballast/Driver: -

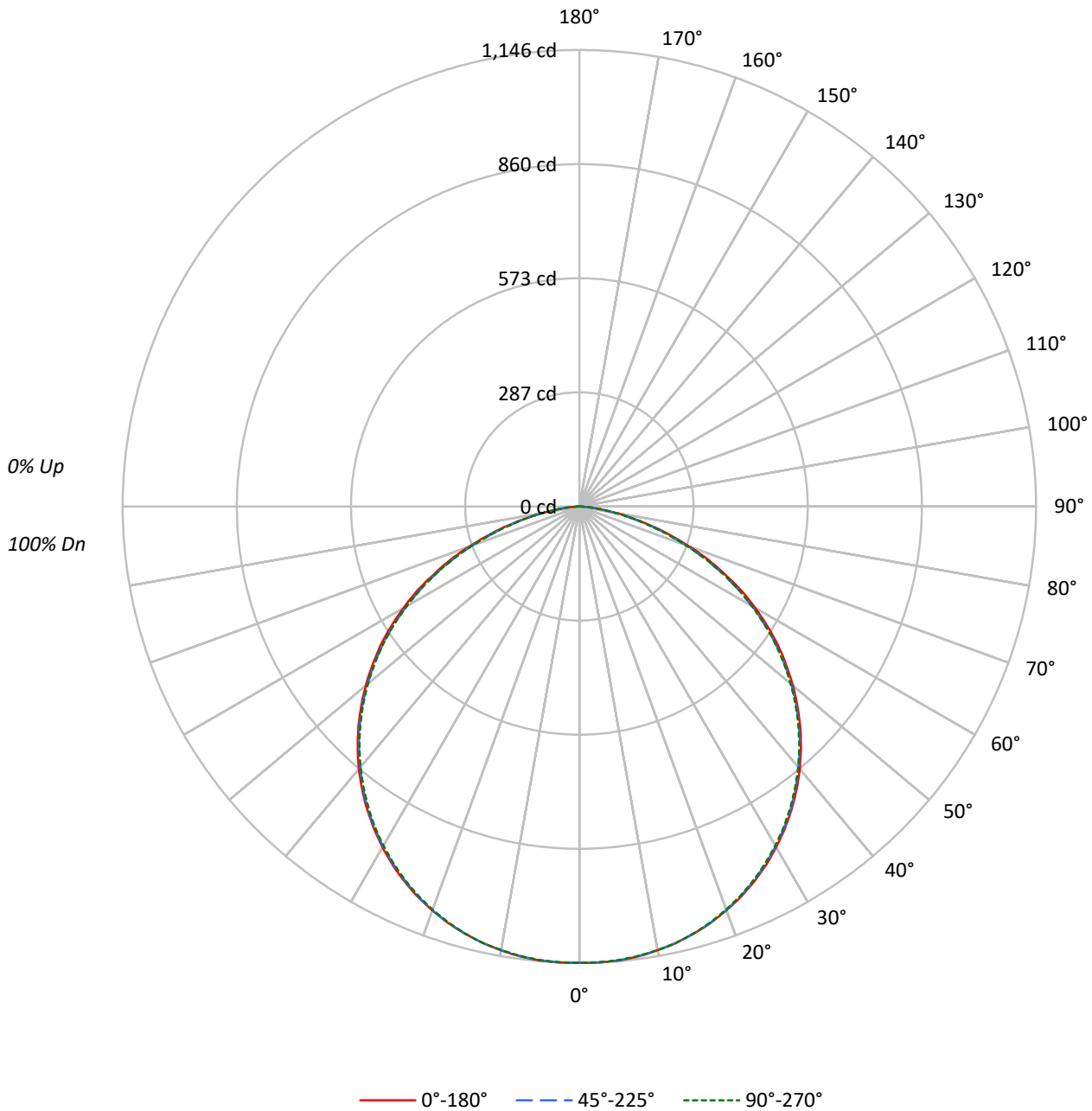
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3239.0 lumens
Efficiency: N/A
Efficacy: 106.9 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): 30.3
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										
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°	1542	1542	1542
5°	1545	1545	1544
10°	1546	1545	1545
15°	1547	1546	1546
20°	1545	1544	1542
25°	1542	1539	1537
30°	1535	1531	1528
35°	1525	1521	1516
40°	1512	1502	1500
45°	1492	1483	1479
50°	1464	1453	1449
55°	1430	1409	1407
60°	1370	1345	1345
65°	1282	1252	1255
70°	1153	1118	1114
75°	968	930	926
80°	707	673	701
85°	400	367	375

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1492 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	3.4
10°-20°	313.4	9.7
20°-30°	477.8	14.8
30°-40°	578.9	17.9
40°-50°	601.3	18.6
50°-60°	537.9	16.6
60°-70°	392.0	12.1
70°-80°	194.2	6.0
80°-90°	34.7	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°	900.0	27.8
0°-40°	1478.9	45.7
0°-60°	2618.1	80.8
0°-90°	3239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1146	1146	1146	1146	1146	
5°	1144	1144	1144	1144	1143	109
15°	1110	1110	1110	1111	1110	313
25°	1039	1038	1037	1036	1035	479
35°	928	927	926	924	923	581
45°	784	782	780	778	777	604
55°	609	605	601	601	600	543
65°	403	399	393	395	394	399
75°	186	183	179	182	178	199
85°	26	24	24	24	24	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1146.0	1146.0	1146.0	1146.0	1146.0
2.5°	1146.0	1145.6	1145.6	1146.0	1145.2
5°	1144.0	1144.4	1144.0	1144.0	1143.1
7.5°	1139.4	1139.0	1138.6	1139.0	1137.8
10°	1131.6	1131.6	1131.2	1131.6	1130.8
12.5°	1122.2	1122.2	1122.2	1122.6	1122.2
15°	1110.3	1109.8	1109.8	1110.7	1109.8
17.5°	1096.3	1095.9	1095.9	1095.4	1094.6
20°	1079.0	1079.0	1078.6	1078.2	1076.9
22.5°	1060.5	1060.1	1058.9	1058.9	1057.2
25°	1038.7	1037.5	1036.6	1036.2	1035.0
27.5°	1014.9	1013.2	1012.0	1011.2	1009.9
30°	988.1	986.5	985.2	984.0	983.2
32.5°	959.3	958.5	956.5	956.0	954.4
35°	928.5	927.3	926.0	924.4	922.7
37.5°	895.6	894.4	891.5	890.7	889.4
40°	860.7	859.0	855.3	855.3	854.1
42.5°	823.2	821.6	819.1	817.5	816.7
45°	784.2	782.5	779.6	778.0	777.2
47.5°	742.6	741.4	738.1	736.9	735.6
50°	699.5	697.8	694.1	693.3	692.1
52.5°	654.2	653.4	648.5	648.1	646.8
55°	609.4	604.9	600.8	600.8	599.9
57.5°	560.1	556.8	551.4	551.4	550.6
60°	509.1	506.2	500.0	500.8	500.0
62.5°	459.3	453.1	447.4	449.9	447.8
65°	402.6	399.3	393.1	394.8	394.3
67.5°	350.8	344.6	338.8	342.1	340.5
70°	293.2	289.9	284.1	287.4	283.3
72.5°	238.9	236.0	230.3	234.0	229.9
75°	186.3	183.4	178.9	182.2	178.1
77.5°	136.5	134.5	130.4	133.6	134.5
80°	91.3	88.8	86.8	89.6	90.5
82.5°	53.5	51.8	51.0	51.4	53.5
85°	25.9	23.8	23.8	24.3	24.3
87.5°	7.0	6.2	7.0	7.4	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)