

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: P974388

Luminaire Tested: FLR2-24-40-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974388
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-L940-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L940-CA125
Ballast/Driver: -

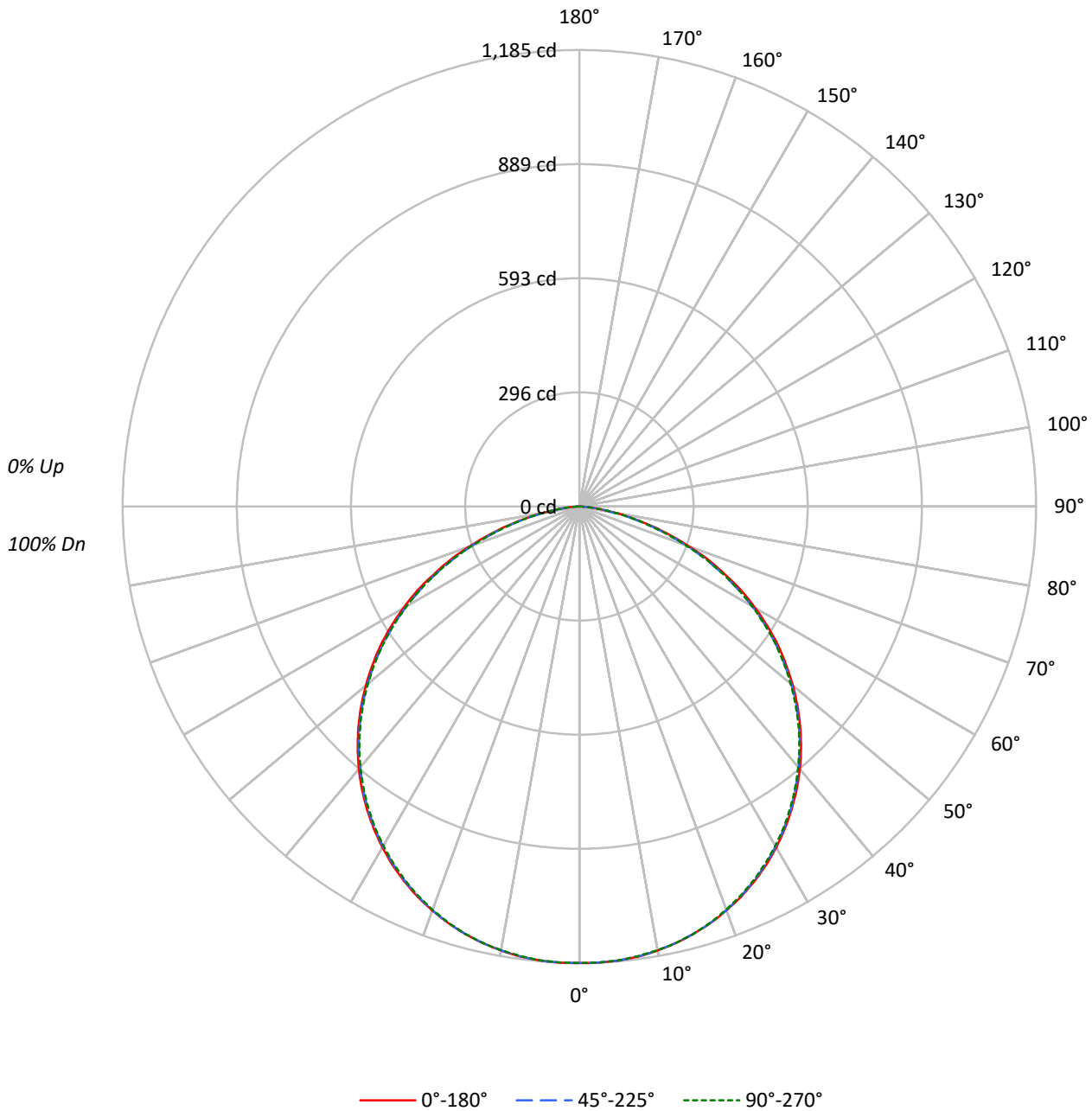
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3350.3 lumens
Efficiency: N/A
Efficacy: 110.6 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				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°	1595	1595	1595
5°	1598	1598	1597
10°	1599	1599	1598
15°	1600	1599	1599
20°	1598	1597	1595
25°	1595	1592	1589
30°	1588	1583	1580
35°	1577	1573	1568
40°	1564	1554	1552
45°	1543	1534	1530
50°	1514	1503	1498
55°	1479	1458	1456
60°	1417	1392	1392
65°	1326	1294	1299
70°	1193	1156	1153
75°	1002	962	958
80°	731	695	725
85°	414	381	387

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1543 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.4
10°-20°	324.1	9.7
20°-30°	494.2	14.8
30°-40°	598.8	17.9
40°-50°	622.0	18.6
50°-60°	556.4	16.6
60°-70°	405.5	12.1
70°-80°	200.8	6.0
80°-90°	35.9	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°	930.9	27.8
0°-40°	1529.7	45.7
0°-60°	2708.0	80.8
0°-90°	3350.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3350.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1183	1184	1183	1183	1182	113
15°	1148	1148	1148	1149	1148	324
25°	1074	1073	1072	1072	1070	495
35°	960	959	958	956	954	601
45°	811	809	806	805	804	625
55°	630	626	621	621	620	562
65°	416	413	407	408	408	413
75°	193	190	185	188	184	205
85°	27	25	25	25	25	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1185.4	1185.4	1185.4	1185.4	1185.4
2.5°	1185.4	1185.0	1185.0	1185.4	1184.5
5°	1183.3	1183.7	1183.3	1183.3	1182.4
7.5°	1178.6	1178.2	1177.7	1178.2	1176.9
10°	1170.5	1170.5	1170.1	1170.5	1169.6
12.5°	1160.7	1160.7	1160.7	1161.1	1160.7
15°	1148.4	1148.0	1148.0	1148.8	1148.0
17.5°	1133.9	1133.5	1133.5	1133.1	1132.2
20°	1116.1	1116.1	1115.6	1115.2	1113.9
22.5°	1096.9	1096.5	1095.2	1095.2	1093.5
25°	1074.4	1073.1	1072.2	1071.8	1070.5
27.5°	1049.7	1048.0	1046.7	1045.9	1044.6
30°	1022.1	1020.4	1019.1	1017.8	1017.0
32.5°	992.3	991.4	989.3	988.9	987.2
35°	960.4	959.1	957.8	956.1	954.4
37.5°	926.4	925.1	922.1	921.3	920.0
40°	890.2	888.5	884.7	884.7	883.4
42.5°	851.5	849.8	847.2	845.5	844.7
45°	811.1	809.4	806.4	804.7	803.9
47.5°	768.1	766.9	763.5	762.2	760.9
50°	723.5	721.8	717.9	717.1	715.8
52.5°	676.7	675.8	670.7	670.3	669.0
55°	630.3	625.7	621.4	621.4	620.5
57.5°	579.3	575.9	570.4	570.4	569.5
60°	526.6	523.6	517.2	518.0	517.2
62.5°	475.1	468.7	462.8	465.3	463.2
65°	416.4	413.0	406.6	408.3	407.9
67.5°	362.8	356.4	350.5	353.9	352.2
70°	303.3	299.9	293.9	297.3	293.0
72.5°	247.1	244.1	238.2	242.0	237.8
75°	192.7	189.7	185.0	188.4	184.2
77.5°	141.2	139.1	134.8	138.2	139.1
80°	94.4	91.9	89.7	92.7	93.6
82.5°	55.3	53.6	52.7	53.2	55.3
85°	26.8	24.7	24.7	25.1	25.1
87.5°	7.2	6.4	7.2	7.7	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)