

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: P974164

Luminaire Tested: FLR2-24-40-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974164
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-L930-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L930-CA125
Ballast/Driver: -

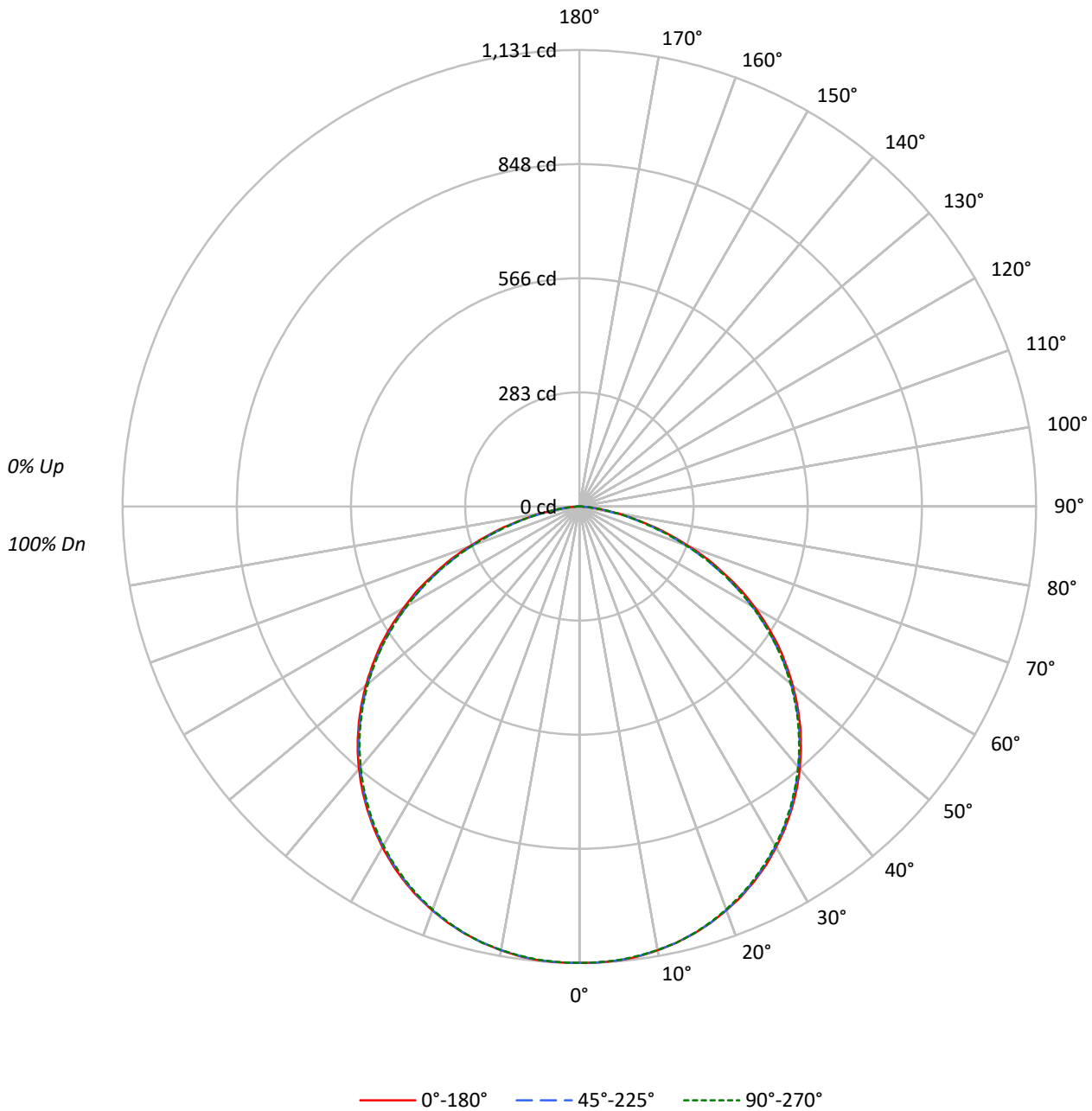
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3196.2 lumens
Efficiency: N/A
Efficacy: 105.5 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°	1522	1522	1522
5°	1525	1525	1524
10°	1526	1525	1525
15°	1526	1526	1526
20°	1524	1524	1522
25°	1522	1519	1516
30°	1515	1510	1507
35°	1505	1501	1496
40°	1492	1482	1480
45°	1472	1464	1459
50°	1445	1434	1429
55°	1411	1391	1389
60°	1352	1328	1328
65°	1265	1235	1239
70°	1138	1103	1100
75°	955	918	913
80°	698	663	692
85°	395	363	369

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1472 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	3.4
10°-20°	309.2	9.7
20°-30°	471.5	14.8
30°-40°	571.2	17.9
40°-50°	593.4	18.6
50°-60°	530.8	16.6
60°-70°	386.9	12.1
70°-80°	191.6	6.0
80°-90°	34.2	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°	888.1	27.8
0°-40°	1459.3	45.7
0°-60°	2583.5	80.8
0°-90°	3196.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3196.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1129	1129	1129	1129	1128	107
15°	1096	1095	1095	1096	1095	309
25°	1025	1024	1023	1022	1021	472
35°	916	915	914	912	910	573
45°	774	772	769	768	767	596
55°	601	597	593	593	592	536
65°	397	394	388	390	389	394
75°	184	181	176	180	176	196
85°	26	24	24	24	24	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1130.9	1130.9	1130.9	1130.9	1130.9
2.5°	1130.9	1130.5	1130.5	1130.9	1130.1
5°	1128.9	1129.3	1128.9	1128.9	1128.0
7.5°	1124.4	1124.0	1123.6	1124.0	1122.8
10°	1116.7	1116.7	1116.3	1116.7	1115.9
12.5°	1107.3	1107.3	1107.3	1107.8	1107.3
15°	1095.6	1095.2	1095.2	1096.0	1095.2
17.5°	1081.8	1081.4	1081.4	1081.0	1080.2
20°	1064.7	1064.7	1064.3	1063.9	1062.7
22.5°	1046.5	1046.1	1044.9	1044.9	1043.2
25°	1025.0	1023.8	1022.9	1022.5	1021.3
27.5°	1001.4	999.8	998.6	997.8	996.6
30°	975.1	973.4	972.2	971.0	970.2
32.5°	946.7	945.9	943.8	943.4	941.8
35°	916.2	915.0	913.8	912.2	910.5
37.5°	883.8	882.6	879.7	878.9	877.7
40°	849.3	847.7	844.0	844.0	842.8
42.5°	812.4	810.7	808.3	806.7	805.9
45°	773.8	772.2	769.3	767.7	766.9
47.5°	732.8	731.6	728.4	727.1	725.9
50°	690.2	688.6	684.9	684.1	682.9
52.5°	645.6	644.8	639.9	639.5	638.3
55°	601.4	596.9	592.8	592.8	592.0
57.5°	552.7	549.4	544.1	544.1	543.3
60°	502.3	499.5	493.4	494.2	493.4
62.5°	453.2	447.2	441.5	443.9	441.9
65°	397.2	394.0	387.9	389.5	389.1
67.5°	346.1	340.0	334.4	337.6	336.0
70°	289.3	286.1	280.4	283.6	279.6
72.5°	235.8	232.9	227.2	230.9	226.8
75°	183.8	181.0	176.5	179.8	175.7
77.5°	134.7	132.7	128.6	131.9	132.7
80°	90.1	87.6	85.6	88.5	89.3
82.5°	52.8	51.1	50.3	50.7	52.8
85°	25.6	23.5	23.5	23.9	23.9
87.5°	6.9	6.1	6.9	7.3	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)