

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: P974491

Luminaire Tested: FLR2-24-35-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974491
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: FLR2-24-35-L950-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L950-CA080
Ballast/Driver: -

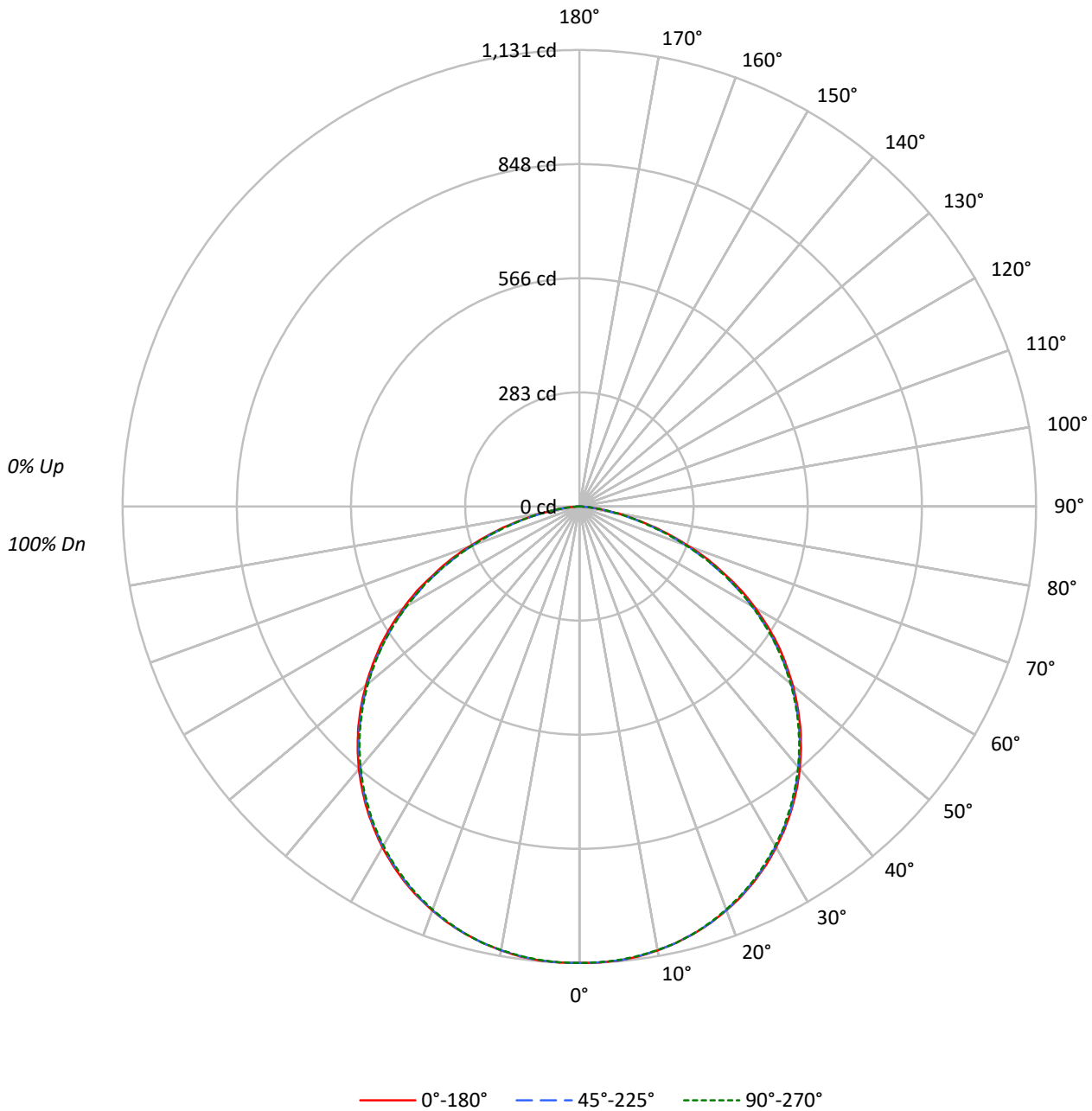
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3196.8 lumens
Efficiency: N/A
Efficacy: 112.6 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): 28.4
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									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	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°	1525	1524	1522
25°	1522	1519	1517
30°	1515	1511	1508
35°	1505	1501	1496
40°	1492	1483	1481
45°	1473	1464	1460
50°	1445	1434	1430
55°	1411	1391	1389
60°	1352	1328	1328
65°	1265	1235	1239
70°	1138	1103	1100
75°	956	918	913
80°	698	663	692
85°	395	363	369

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1473 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	3.4
10°-20°	309.3	9.7
20°-30°	471.6	14.8
30°-40°	571.4	17.9
40°-50°	593.5	18.6
50°-60°	530.9	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°	888.3	27.8
0°-40°	1459.6	45.7
0°-60°	2584.0	80.8
0°-90°	3196.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3196.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1129	1130	1129	1129	1128	107
15°	1096	1095	1095	1096	1095	309
25°	1025	1024	1023	1023	1022	472
35°	916	915	914	912	911	573
45°	774	772	770	768	767	596
55°	602	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°	1131.1	1131.1	1131.1	1131.1	1131.1
2.5°	1131.1	1130.7	1130.7	1131.1	1130.3
5°	1129.1	1129.5	1129.1	1129.1	1128.3
7.5°	1124.6	1124.2	1123.8	1124.2	1123.0
10°	1116.9	1116.9	1116.5	1116.9	1116.1
12.5°	1107.6	1107.6	1107.6	1108.0	1107.6
15°	1095.8	1095.4	1095.4	1096.2	1095.4
17.5°	1082.0	1081.6	1081.6	1081.2	1080.4
20°	1065.0	1065.0	1064.5	1064.1	1062.9
22.5°	1046.7	1046.3	1045.1	1045.1	1043.4
25°	1025.2	1024.0	1023.2	1022.7	1021.5
27.5°	1001.6	1000.0	998.8	998.0	996.8
30°	975.3	973.6	972.4	971.2	970.4
32.5°	946.9	946.0	944.0	943.6	942.0
35°	916.4	915.2	914.0	912.4	910.7
37.5°	883.9	882.7	879.9	879.1	877.9
40°	849.4	847.8	844.2	844.2	843.0
42.5°	812.5	810.9	808.5	806.8	806.0
45°	774.0	772.3	769.5	767.9	767.1
47.5°	733.0	731.8	728.5	727.3	726.1
50°	690.4	688.7	685.1	684.3	683.0
52.5°	645.7	644.9	640.0	639.6	638.4
55°	601.5	597.0	592.9	592.9	592.1
57.5°	552.8	549.5	544.2	544.2	543.4
60°	502.4	499.6	493.5	494.3	493.5
62.5°	453.3	447.2	441.6	444.0	442.0
65°	397.3	394.1	388.0	389.6	389.2
67.5°	346.2	340.1	334.4	337.7	336.0
70°	289.4	286.1	280.4	283.7	279.6
72.5°	235.8	233.0	227.3	230.9	226.9
75°	183.9	181.0	176.5	179.8	175.7
77.5°	134.7	132.7	128.7	131.9	132.7
80°	90.1	87.7	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)