

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: P974157

Luminaire Tested: FLR2-24-45-L930-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974157
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-L930-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-45-L930-CA080
Ballast/Driver: -

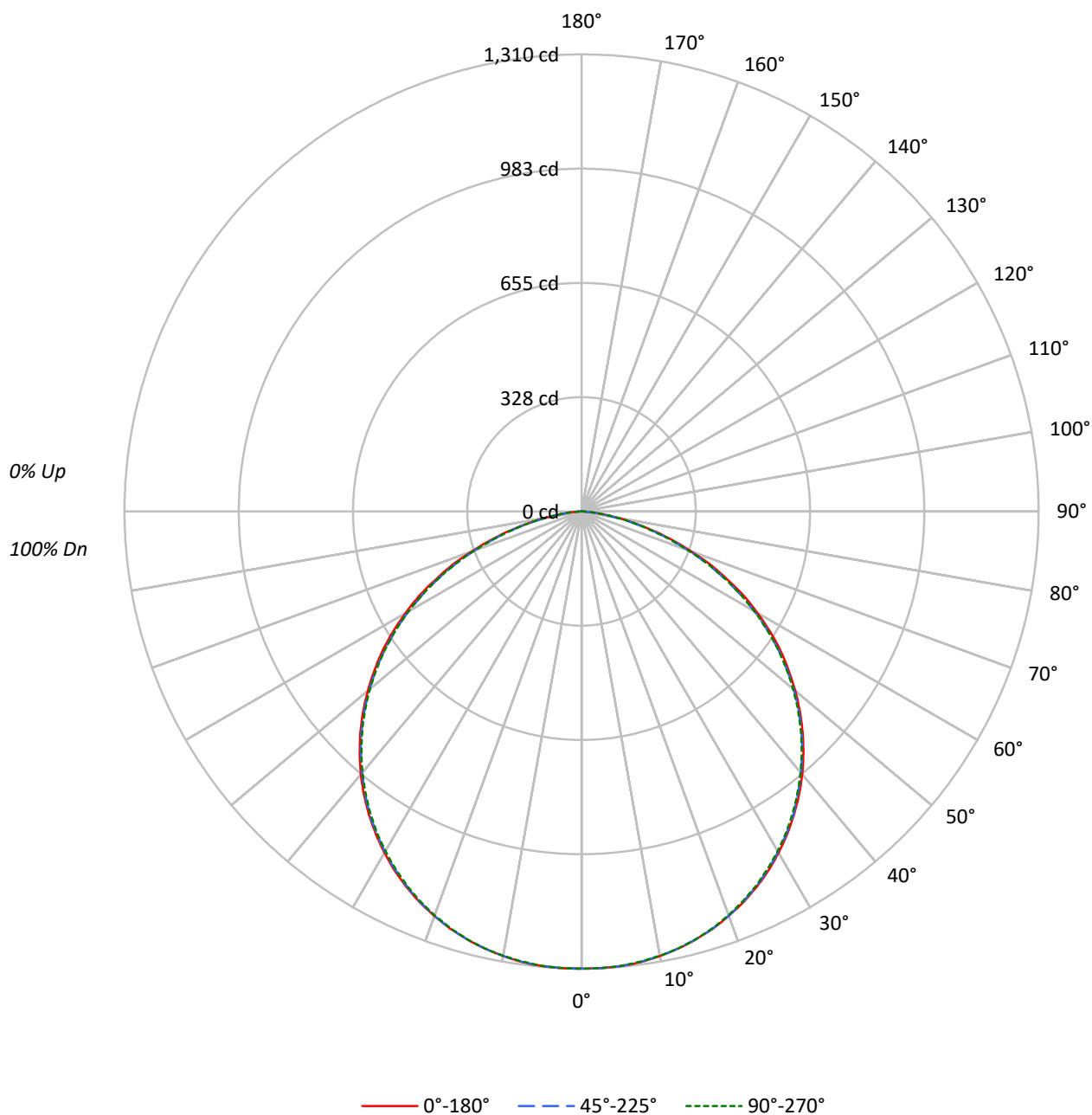
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3703.8 lumens
Efficiency: N/A
Efficacy: 104.0 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

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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	1763	1763	1763
5°	1767	1767	1766
10°	1768	1767	1767
15°	1768	1768	1768
20°	1767	1766	1763
25°	1763	1760	1757
30°	1755	1750	1747
35°	1744	1739	1733
40°	1729	1718	1715
45°	1706	1696	1691
50°	1674	1661	1657
55°	1635	1612	1609
60°	1566	1539	1539
65°	1465	1431	1436
70°	1319	1278	1275
75°	1107	1063	1058
80°	809	769	801
85°	457	421	428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1706 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	3.4
10°-20°	358.4	9.7
20°-30°	546.4	14.8
30°-40°	662.0	17.9
40°-50°	687.6	18.6
50°-60°	615.1	16.6
60°-70°	448.3	12.1
70°-80°	222.0	6.0
80°-90°	39.7	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°	1029.1	27.8
0°-40°	1691.1	45.7
0°-60°	2993.8	80.8
0°-90°	3703.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3703.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1308	1309	1308	1308	1307	124
15°	1270	1269	1269	1270	1269	358
25°	1188	1186	1185	1185	1184	547
35°	1062	1060	1059	1057	1055	664
45°	897	895	892	890	889	691
55°	697	692	687	687	686	621
65°	460	457	450	451	451	456
75°	213	210	204	208	204	227
85°	30	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°	1310.5	1310.5	1310.5	1310.5	1310.5
2.5°	1310.5	1310.0	1310.0	1310.5	1309.5
5°	1308.1	1308.6	1308.1	1308.1	1307.2
7.5°	1303.0	1302.5	1302.0	1302.5	1301.1
10°	1294.0	1294.0	1293.6	1294.0	1293.1
12.5°	1283.2	1283.2	1283.2	1283.7	1283.2
15°	1269.6	1269.1	1269.1	1270.0	1269.1
17.5°	1253.6	1253.1	1253.1	1252.6	1251.7
20°	1233.8	1233.8	1233.4	1232.9	1231.5
22.5°	1212.7	1212.2	1210.8	1210.8	1208.9
25°	1187.8	1186.3	1185.4	1184.9	1183.5
27.5°	1160.5	1158.6	1157.2	1156.3	1154.8
30°	1129.9	1128.0	1126.6	1125.2	1124.3
32.5°	1097.0	1096.1	1093.7	1093.2	1091.4
35°	1061.7	1060.3	1058.9	1057.0	1055.2
37.5°	1024.1	1022.7	1019.4	1018.5	1017.1
40°	984.2	982.3	978.0	978.0	976.6
42.5°	941.4	939.5	936.7	934.8	933.8
45°	896.7	894.8	891.5	889.6	888.7
47.5°	849.2	847.8	844.0	842.6	841.2
50°	799.8	797.9	793.7	792.8	791.4
52.5°	748.1	747.2	741.5	741.1	739.6
55°	696.9	691.7	687.0	687.0	686.0
57.5°	640.4	636.7	630.6	630.6	629.6
60°	582.1	578.8	571.8	572.7	571.8
62.5°	525.2	518.2	511.6	514.4	512.1
65°	460.3	456.6	449.5	451.4	450.9
67.5°	401.1	394.0	387.5	391.2	389.3
70°	335.3	331.5	324.9	328.7	324.0
72.5°	273.2	269.9	263.3	267.6	262.8
75°	213.0	209.7	204.5	208.3	203.6
77.5°	156.1	153.8	149.1	152.8	153.8
80°	104.4	101.6	99.2	102.5	103.4
82.5°	61.1	59.2	58.3	58.8	61.1
85°	29.6	27.3	27.3	27.7	27.7
87.5°	8.0	7.1	8.0	8.5	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)