

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: P974118

Luminaire Tested: FLR2-24-55-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974118
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: FLR2-24-55-L930-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L930-CP080
Ballast/Driver: -

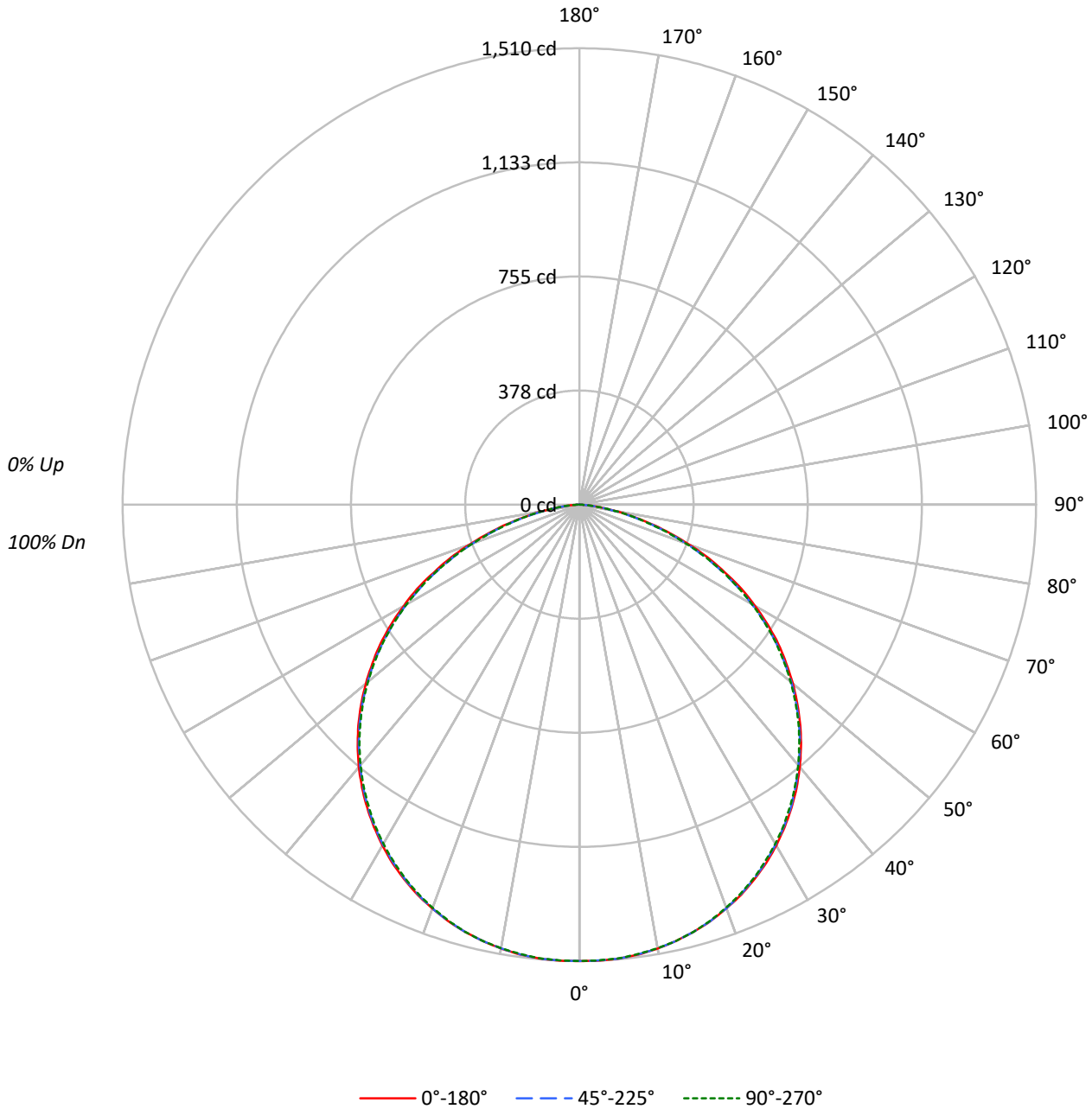
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4268.8 lumens
Efficiency: N/A
Efficacy: 96.8 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): 44.1
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°	2032	2032	2032
5°	2036	2036	2035
10°	2038	2037	2036
15°	2038	2037	2037
20°	2036	2035	2032
25°	2032	2028	2025
30°	2023	2017	2013
35°	2010	2005	1997
40°	1992	1980	1977
45°	1967	1955	1949
50°	1930	1915	1909
55°	1884	1857	1855
60°	1805	1773	1773
65°	1689	1649	1655
70°	1520	1473	1469
75°	1276	1225	1220
80°	932	886	924
85°	526	485	494

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1967 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.4
10°-20°	413.0	9.7
20°-30°	629.7	14.8
30°-40°	762.9	17.9
40°-50°	792.5	18.6
50°-60°	708.9	16.6
60°-70°	516.7	12.1
70°-80°	255.9	6.0
80°-90°	45.7	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°	1186.1	27.8
0°-40°	1949.0	45.7
0°-60°	3450.5	80.8
0°-90°	4268.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4268.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1508	1508	1508	1508	1507	143
15°	1463	1463	1463	1464	1463	413
25°	1369	1367	1366	1366	1364	631
35°	1224	1222	1220	1218	1216	765
45°	1034	1031	1028	1025	1024	796
55°	803	797	792	792	791	716
65°	531	526	518	520	520	526
75°	246	242	236	240	235	262
85°	34	31	31	32	32	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1510.4	1510.4	1510.4	1510.4	1510.4
2.5°	1510.4	1509.8	1509.8	1510.4	1509.3
5°	1507.7	1508.2	1507.7	1507.7	1506.6
7.5°	1501.7	1501.2	1500.6	1501.2	1499.5
10°	1491.4	1491.4	1490.9	1491.4	1490.3
12.5°	1478.9	1478.9	1478.9	1479.5	1478.9
15°	1463.2	1462.7	1462.7	1463.8	1462.7
17.5°	1444.8	1444.3	1444.3	1443.7	1442.6
20°	1422.0	1422.0	1421.5	1421.0	1419.3
22.5°	1397.7	1397.1	1395.5	1395.5	1393.3
25°	1368.9	1367.3	1366.2	1365.7	1364.1
27.5°	1337.5	1335.3	1333.7	1332.6	1331.0
30°	1302.3	1300.1	1298.5	1296.9	1295.8
32.5°	1264.3	1263.3	1260.5	1260.0	1257.8
35°	1223.7	1222.1	1220.4	1218.3	1216.1
37.5°	1180.3	1178.7	1174.9	1173.8	1172.2
40°	1134.3	1132.1	1127.2	1127.2	1125.6
42.5°	1085.0	1082.8	1079.5	1077.4	1076.3
45°	1033.5	1031.3	1027.5	1025.3	1024.3
47.5°	978.7	977.1	972.8	971.2	969.5
50°	921.8	919.7	914.8	913.7	912.1
52.5°	862.2	861.1	854.6	854.1	852.5
55°	803.2	797.2	791.8	791.8	790.7
57.5°	738.1	733.8	726.7	726.7	725.7
60°	670.9	667.1	659.0	660.1	659.0
62.5°	605.3	597.2	589.6	592.9	590.2
65°	530.6	526.2	518.1	520.3	519.7
67.5°	462.3	454.1	446.6	450.9	448.7
70°	386.4	382.1	374.5	378.8	373.4
72.5°	314.9	311.1	303.5	308.4	302.9
75°	245.5	241.7	235.7	240.1	234.7
77.5°	179.9	177.2	171.8	176.1	177.2
80°	120.3	117.1	114.3	118.1	119.2
82.5°	70.5	68.3	67.2	67.7	70.5
85°	34.1	31.4	31.4	32.0	32.0
87.5°	9.2	8.1	9.2	9.8	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)