

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: P974342

Luminaire Tested: FLR2-24-55-L940-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974342
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-L940-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L940-CP080
Ballast/Driver: -

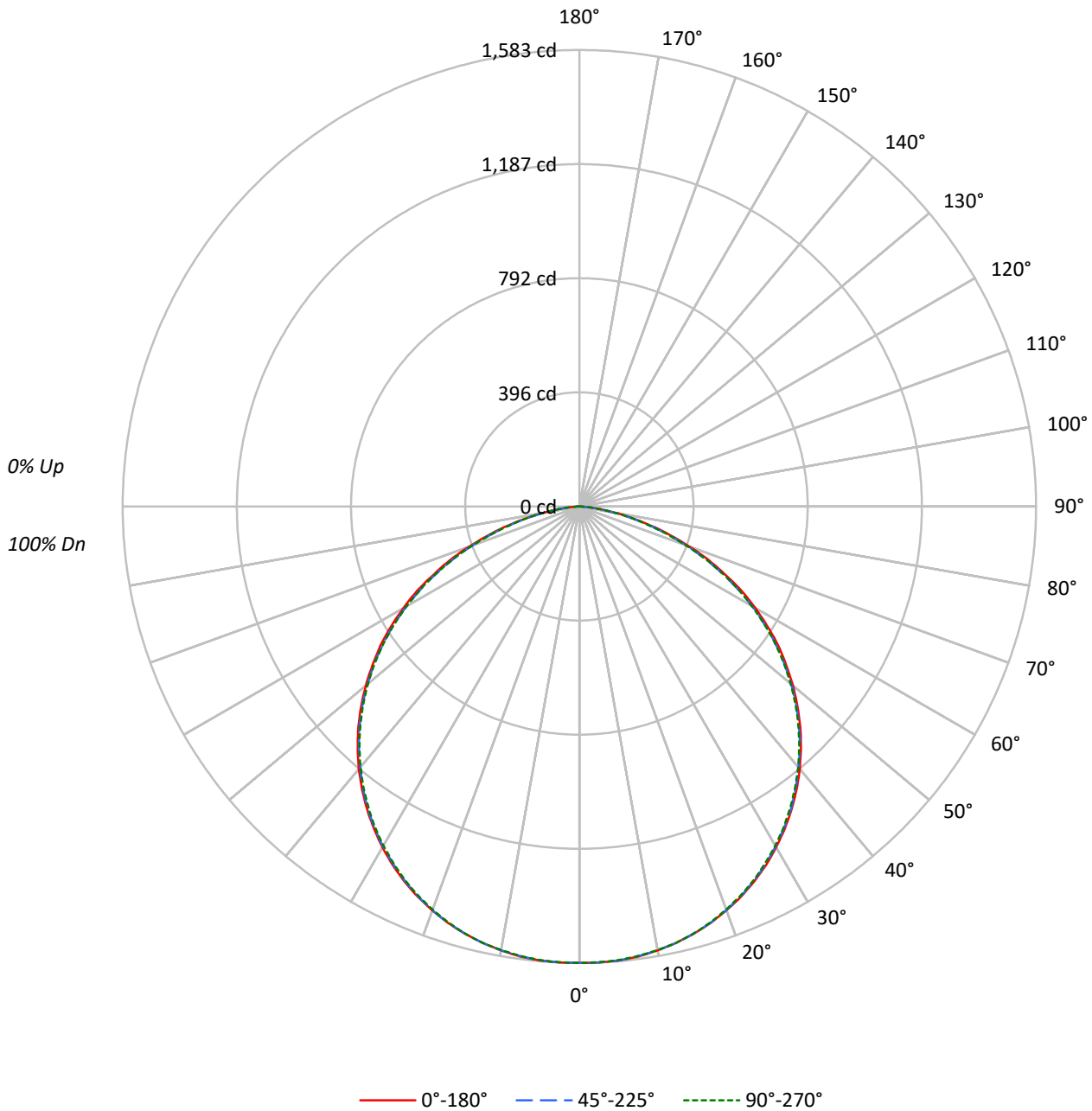
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4474.5 lumens
Efficiency: N/A
Efficacy: 101.5 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): 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

TEST NUMBER: P974342
CATALOG NUMBER: FLR2-24-55-L940-CP080

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°	2130	2130	2130
5°	2134	2134	2133
10°	2136	2135	2134
15°	2136	2136	2136
20°	2134	2133	2130
25°	2130	2126	2123
30°	2121	2115	2110
35°	2107	2101	2094
40°	2088	2075	2072
45°	2061	2049	2043
50°	2023	2007	2001
55°	1975	1947	1944
60°	1893	1859	1859
65°	1770	1729	1734
70°	1593	1544	1540
75°	1338	1285	1279
80°	977	929	969
85°	553	508	517

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2061 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	3.4
10°-20°	432.9	9.7
20°-30°	660.1	14.8
30°-40°	799.7	17.9
40°-50°	830.7	18.6
50°-60°	743.1	16.6
60°-70°	541.6	12.1
70°-80°	268.2	6.0
80°-90°	47.9	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°	1243.3	27.8
0°-40°	2043.0	45.7
0°-60°	3616.8	80.8
0°-90°	4474.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4474.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1583	1583	1583	1583	1583	
5°	1580	1581	1580	1580	1579	150
15°	1534	1533	1533	1534	1533	433
25°	1435	1433	1432	1432	1430	661
35°	1283	1281	1279	1277	1275	802
45°	1083	1081	1077	1075	1074	835
55°	842	836	830	830	829	750
65°	556	552	543	545	545	551
75°	257	253	247	252	246	274
85°	36	33	33	34	34	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.2	1583.2	1583.2	1583.2	1583.2
2.5°	1583.2	1582.6	1582.6	1583.2	1582.0
5°	1580.3	1580.9	1580.3	1580.3	1579.2
7.5°	1574.1	1573.5	1572.9	1573.5	1571.8
10°	1563.3	1563.3	1562.7	1563.3	1562.2
12.5°	1550.2	1550.2	1550.2	1550.8	1550.2
15°	1533.7	1533.2	1533.2	1534.3	1533.2
17.5°	1514.4	1513.9	1513.9	1513.3	1512.2
20°	1490.6	1490.6	1490.0	1489.4	1487.7
22.5°	1465.0	1464.4	1462.7	1462.7	1460.5
25°	1434.9	1433.2	1432.1	1431.5	1429.8
27.5°	1402.0	1399.7	1398.0	1396.8	1395.1
30°	1365.0	1362.8	1361.1	1359.4	1358.2
32.5°	1325.3	1324.1	1321.3	1320.7	1318.5
35°	1282.7	1281.0	1279.3	1277.0	1274.7
37.5°	1237.2	1235.5	1231.5	1230.4	1228.7
40°	1188.9	1186.7	1181.6	1181.6	1179.9
42.5°	1137.2	1135.0	1131.6	1129.3	1128.2
45°	1083.3	1081.0	1077.0	1074.8	1073.6
47.5°	1025.9	1024.2	1019.7	1018.0	1016.3
50°	966.3	964.0	958.9	957.7	956.0
52.5°	903.8	902.6	895.8	895.3	893.6
55°	841.9	835.6	829.9	829.9	828.8
57.5°	773.7	769.1	761.8	761.8	760.6
60°	703.3	699.3	690.8	691.9	690.8
62.5°	634.5	626.0	618.0	621.5	618.6
65°	556.1	551.6	543.1	545.3	544.8
67.5°	484.6	476.0	468.1	472.6	470.3
70°	405.0	400.5	392.5	397.1	391.4
72.5°	330.0	326.1	318.1	323.2	317.5
75°	257.3	253.4	247.1	251.6	246.0
77.5°	188.6	185.8	180.1	184.6	185.8
80°	126.1	122.7	119.9	123.8	125.0
82.5°	73.8	71.6	70.4	71.0	73.8
85°	35.8	32.9	32.9	33.5	33.5
87.5°	9.7	8.5	9.7	10.2	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)