

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: P974086

Luminaire Tested: FLR2-24-55-L830-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974086
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-L830-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L830-CP250
Ballast/Driver: -

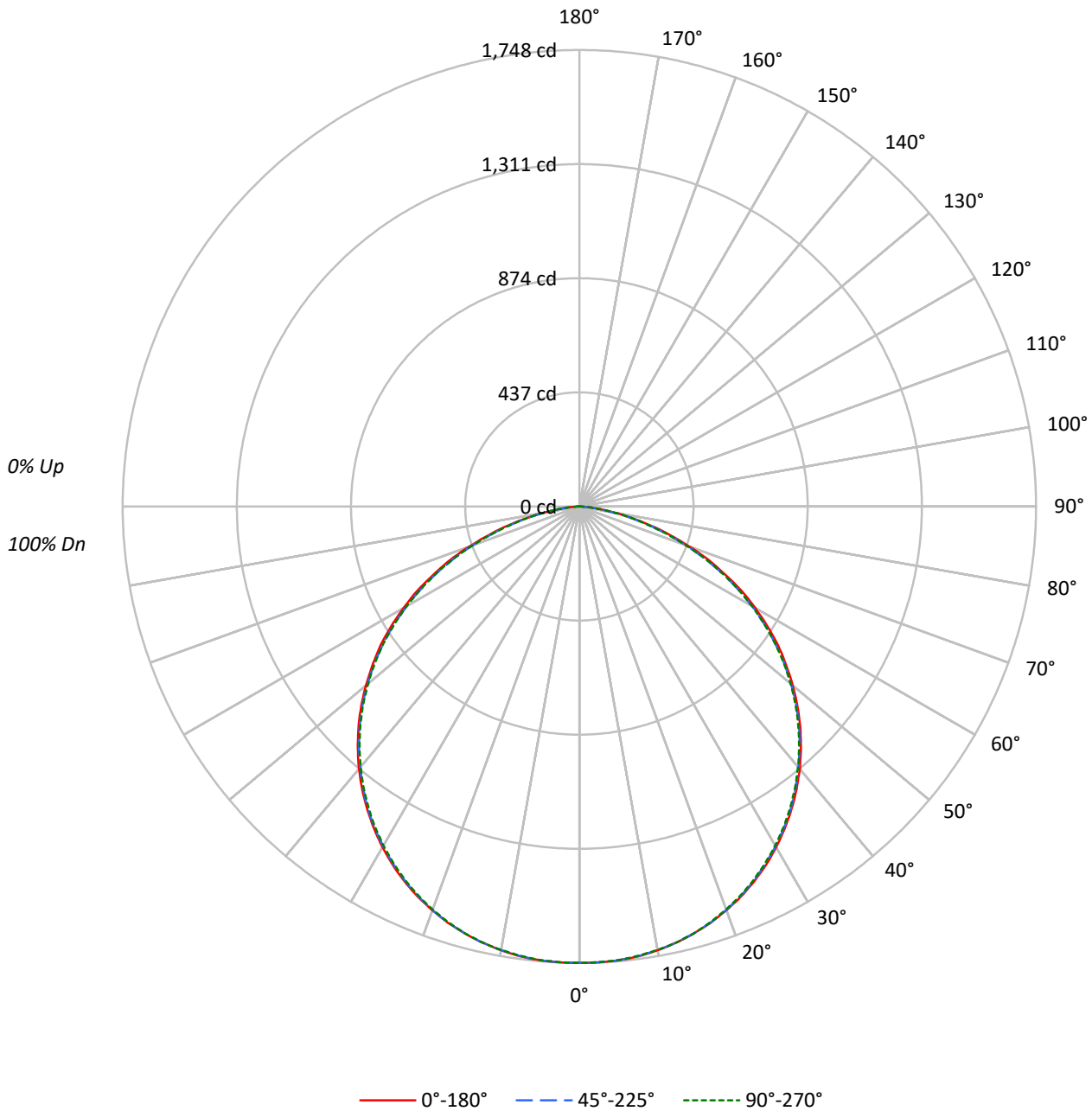
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4939.3 lumens
Efficiency: N/A
Efficacy: 112.0 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): 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°	2351	2351	2351
5°	2356	2356	2354
10°	2358	2357	2356
15°	2358	2357	2357
20°	2356	2355	2352
25°	2352	2347	2343
30°	2341	2334	2329
35°	2326	2319	2311
40°	2305	2291	2288
45°	2275	2262	2255
50°	2233	2216	2209
55°	2180	2149	2146
60°	2089	2052	2052
65°	1954	1909	1915
70°	1759	1705	1699
75°	1477	1418	1411
80°	1079	1025	1069
85°	610	562	571

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2275 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	3.4
10°-20°	477.9	9.7
20°-30°	728.6	14.8
30°-40°	882.8	17.9
40°-50°	917.0	18.6
50°-60°	820.3	16.6
60°-70°	597.9	12.1
70°-80°	296.1	6.0
80°-90°	52.9	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°	1372.4	27.8
0°-40°	2255.2	45.7
0°-60°	3992.5	80.8
0°-90°	4939.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4939.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1748	1748	1748	1748	1748	
5°	1744	1745	1744	1744	1743	166
15°	1693	1692	1692	1694	1692	478
25°	1584	1582	1581	1580	1578	730
35°	1416	1414	1412	1410	1407	886
45°	1196	1193	1189	1186	1185	922
55°	929	922	916	916	915	828
65°	614	609	600	602	601	609
75°	284	280	273	278	272	303
85°	40	36	36	37	37	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1747.6	1747.6	1747.6	1747.6	1747.6
2.5°	1747.6	1747.0	1747.0	1747.6	1746.4
5°	1744.5	1745.1	1744.5	1744.5	1743.2
7.5°	1737.6	1737.0	1736.3	1737.0	1735.1
10°	1725.7	1725.7	1725.1	1725.7	1724.4
12.5°	1711.3	1711.3	1711.3	1711.9	1711.3
15°	1693.1	1692.4	1692.4	1693.7	1692.4
17.5°	1671.8	1671.1	1671.1	1670.5	1669.2
20°	1645.4	1645.4	1644.8	1644.2	1642.3
22.5°	1617.2	1616.6	1614.7	1614.7	1612.2
25°	1584.0	1582.1	1580.8	1580.2	1578.3
27.5°	1547.6	1545.1	1543.2	1542.0	1540.1
30°	1506.8	1504.3	1502.4	1500.6	1499.3
32.5°	1462.9	1461.7	1458.6	1457.9	1455.4
35°	1415.9	1414.0	1412.1	1409.6	1407.1
37.5°	1365.7	1363.9	1359.5	1358.2	1356.3
40°	1312.4	1309.9	1304.3	1304.3	1302.4
42.5°	1255.4	1252.9	1249.1	1246.6	1245.3
45°	1195.8	1193.3	1188.9	1186.4	1185.2
47.5°	1132.5	1130.6	1125.6	1123.7	1121.8
50°	1066.6	1064.1	1058.5	1057.2	1055.3
52.5°	997.7	996.4	988.9	988.3	986.4
55°	929.3	922.4	916.1	916.1	914.9
57.5°	854.1	849.0	840.9	840.9	839.6
60°	776.3	771.9	762.5	763.8	762.5
62.5°	700.4	691.0	682.2	686.0	682.9
65°	613.9	608.9	599.5	602.0	601.4
67.5°	534.9	525.5	516.7	521.7	519.2
70°	447.1	442.1	433.3	438.3	432.0
72.5°	364.3	359.9	351.2	356.8	350.5
75°	284.1	279.7	272.8	277.8	271.5
77.5°	208.2	205.0	198.8	203.8	205.0
80°	139.2	135.4	132.3	136.7	138.0
82.5°	81.5	79.0	77.8	78.4	81.5
85°	39.5	36.4	36.4	37.0	37.0
87.5°	10.7	9.4	10.7	11.3	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)