

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: P974068

Luminaire Tested: FLR2-24-40-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974068
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: FLR2-24-40-L830-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L830-CP125
Ballast/Driver: -

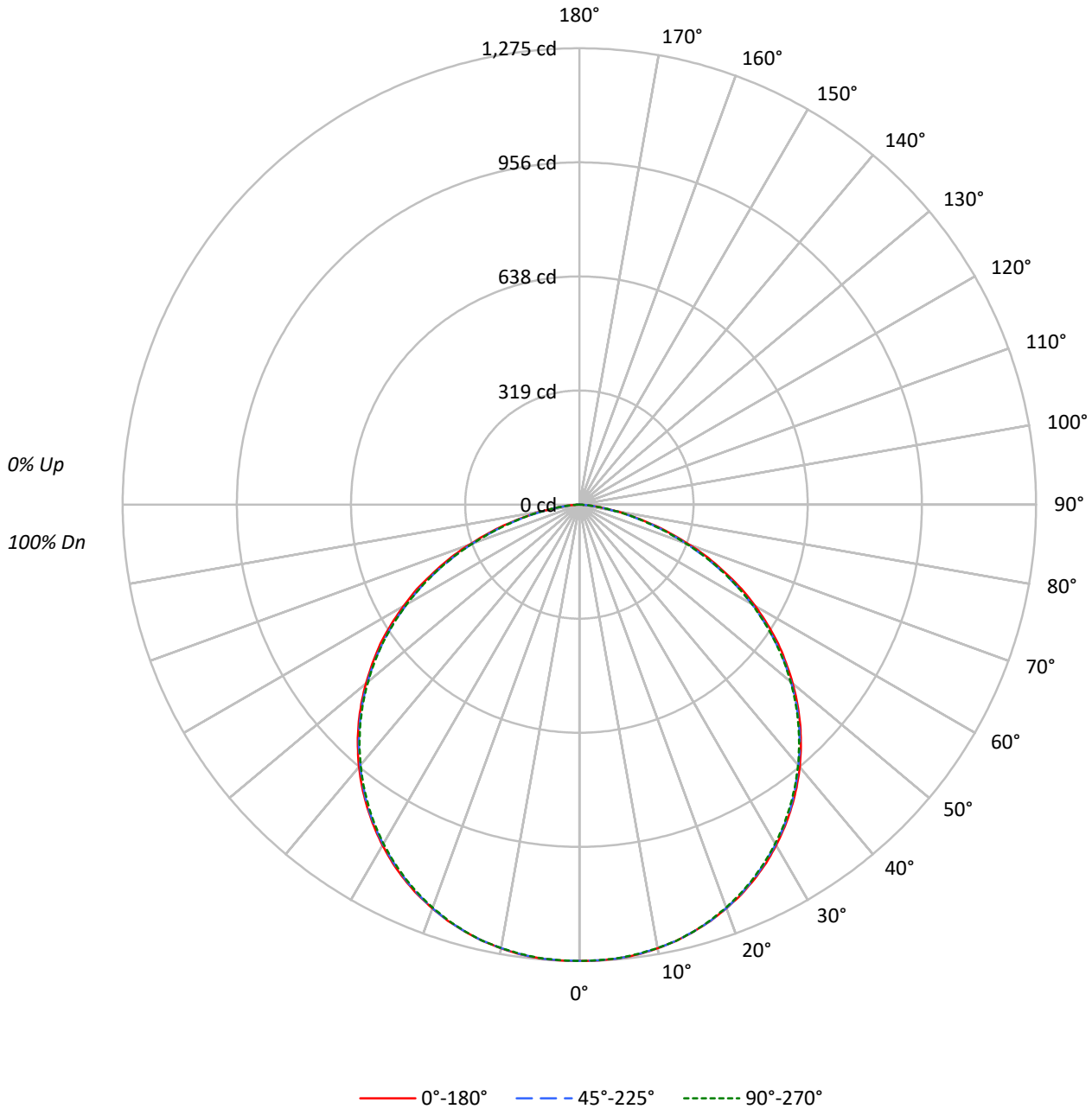
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3603.0 lumens
Efficiency: N/A
Efficacy: 118.9 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): 30.3
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°	1715	1715	1715
5°	1719	1719	1717
10°	1720	1719	1719
15°	1720	1720	1720
20°	1718	1718	1715
25°	1715	1712	1709
30°	1708	1703	1699
35°	1696	1692	1686
40°	1682	1671	1669
45°	1660	1650	1645
50°	1629	1616	1611
55°	1590	1568	1566
60°	1524	1497	1497
65°	1426	1392	1397
70°	1283	1244	1240
75°	1077	1035	1030
80°	786	748	779
85°	445	409	417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1660 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	3.4
10°-20°	348.6	9.7
20°-30°	531.5	14.8
30°-40°	643.9	17.9
40°-50°	668.9	18.6
50°-60°	598.4	16.6
60°-70°	436.1	12.1
70°-80°	216.0	6.0
80°-90°	38.6	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°	1001.1	27.8
0°-40°	1645.0	45.7
0°-60°	2912.3	80.8
0°-90°	3603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1272	1273	1272	1272	1272	121
15°	1235	1234	1234	1236	1234	349
25°	1155	1154	1153	1153	1151	533
35°	1033	1032	1030	1028	1026	646
45°	872	870	867	865	864	672
55°	678	673	668	668	667	604
65°	448	444	437	439	439	444
75°	207	204	199	203	198	221
85°	29	26	26	27	27	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1274.8	1274.8	1274.8	1274.8	1274.8
2.5°	1274.8	1274.3	1274.3	1274.8	1273.9
5°	1272.5	1273.0	1272.5	1272.5	1271.6
7.5°	1267.5	1267.0	1266.6	1267.0	1265.6
10°	1258.8	1258.8	1258.3	1258.8	1257.9
12.5°	1248.3	1248.3	1248.3	1248.7	1248.3
15°	1235.0	1234.5	1234.5	1235.5	1234.5
17.5°	1219.4	1219.0	1219.0	1218.5	1217.6
20°	1200.2	1200.2	1199.8	1199.3	1197.9
22.5°	1179.7	1179.2	1177.8	1177.8	1176.0
25°	1155.4	1154.0	1153.1	1152.7	1151.3
27.5°	1128.9	1127.1	1125.7	1124.8	1123.4
30°	1099.1	1097.3	1095.9	1094.6	1093.7
32.5°	1067.1	1066.2	1063.9	1063.5	1061.6
35°	1032.8	1031.5	1030.1	1028.3	1026.4
37.5°	996.2	994.9	991.7	990.7	989.4
40°	957.4	955.5	951.4	951.4	950.0
42.5°	915.7	913.9	911.2	909.3	908.4
45°	872.3	870.4	867.2	865.4	864.5
47.5°	826.1	824.7	821.0	819.7	818.3
50°	778.0	776.2	772.1	771.2	769.8
52.5°	727.7	726.8	721.3	720.9	719.5
55°	677.9	672.8	668.3	668.3	667.4
57.5°	623.0	619.3	613.4	613.4	612.5
60°	566.3	563.1	556.2	557.1	556.2
62.5°	510.9	504.1	497.7	500.4	498.1
65°	447.8	444.1	437.3	439.1	438.7
67.5°	390.2	383.3	376.9	380.6	378.7
70°	326.1	322.5	316.1	319.7	315.2
72.5°	265.8	262.6	256.1	260.3	255.7
75°	207.2	204.0	199.0	202.6	198.1
77.5°	151.9	149.6	145.0	148.7	149.6
80°	101.5	98.8	96.5	99.7	100.6
82.5°	59.5	57.6	56.7	57.2	59.5
85°	28.8	26.5	26.5	27.0	27.0
87.5°	7.8	6.9	7.8	8.2	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)