

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: P974108

Luminaire Tested: FLR2-24-40-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974108
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L830-CA125
Ballast/Driver: -

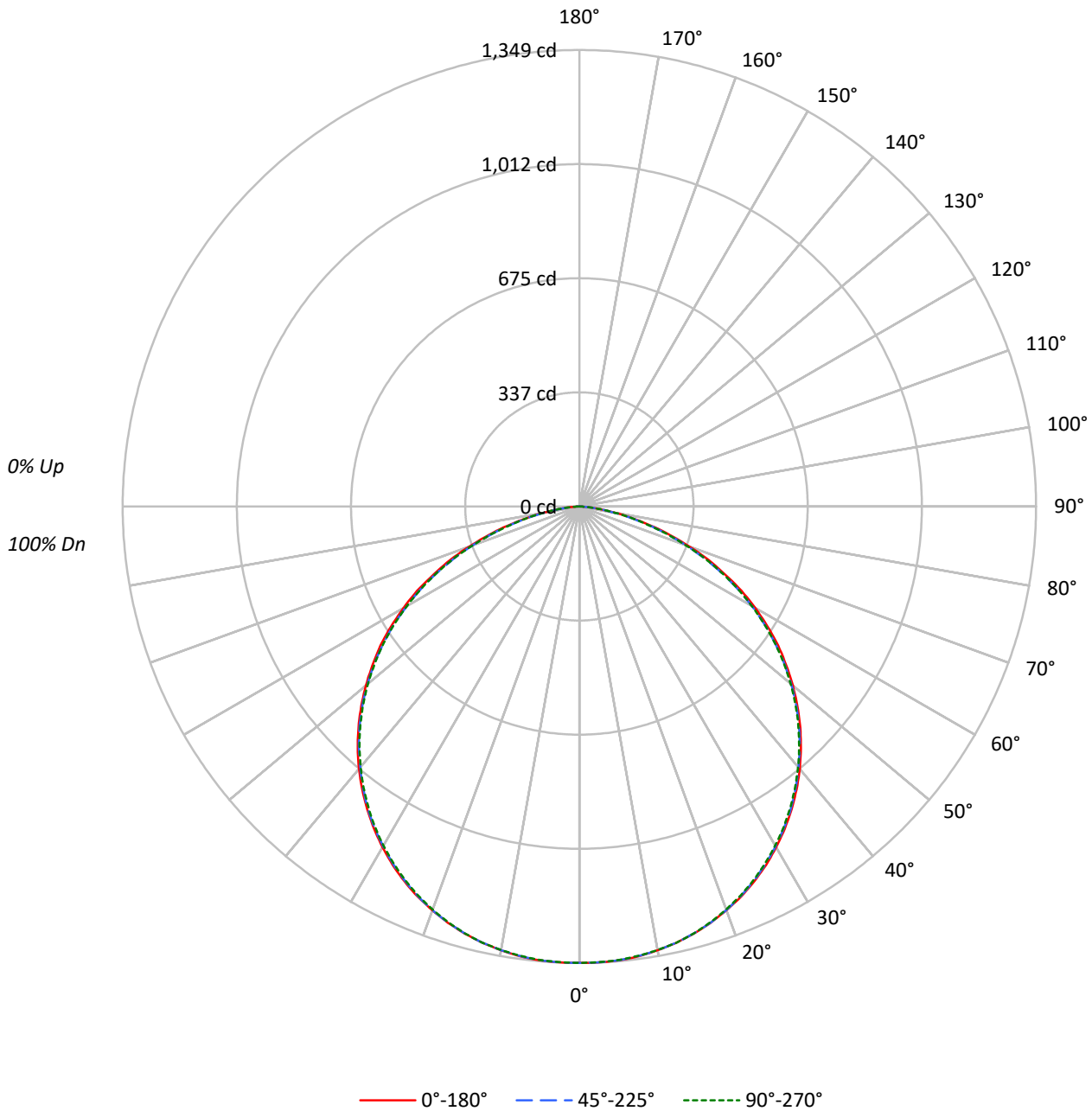
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3812.4 lumens
Efficiency: N/A
Efficacy: 125.8 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): 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				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1815	1815	1815
5°	1819	1819	1817
10°	1820	1819	1818
15°	1820	1820	1820
20°	1818	1818	1815
25°	1815	1811	1809
30°	1807	1802	1798
35°	1795	1790	1784
40°	1779	1768	1766
45°	1756	1746	1740
50°	1723	1710	1705
55°	1683	1659	1656
60°	1612	1584	1584
65°	1508	1473	1478
70°	1358	1316	1312
75°	1140	1094	1090
80°	832	791	825
85°	471	434	442

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1756 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	3.4
10°-20°	368.9	9.7
20°-30°	562.4	14.8
30°-40°	681.4	17.9
40°-50°	707.8	18.6
50°-60°	633.1	16.6
60°-70°	461.4	12.1
70°-80°	228.5	6.0
80°-90°	40.9	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°	1059.3	27.8
0°-40°	1740.6	45.7
0°-60°	3081.5	80.8
0°-90°	3812.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3812.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1346	1347	1346	1346	1346	128
15°	1307	1306	1306	1307	1306	369
25°	1223	1221	1220	1220	1218	563
35°	1093	1091	1090	1088	1086	684
45°	923	921	918	916	915	711
55°	717	712	707	707	706	639
65°	474	470	463	465	464	470
75°	219	216	210	214	210	234
85°	30	28	28	29	29	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1348.9	1348.9	1348.9	1348.9	1348.9
2.5°	1348.9	1348.4	1348.4	1348.9	1347.9
5°	1346.5	1346.9	1346.5	1346.5	1345.5
7.5°	1341.1	1340.7	1340.2	1340.7	1339.2
10°	1331.9	1331.9	1331.5	1331.9	1331.0
12.5°	1320.8	1320.8	1320.8	1321.3	1320.8
15°	1306.8	1306.3	1306.3	1307.3	1306.3
17.5°	1290.3	1289.8	1289.8	1289.4	1288.4
20°	1270.0	1270.0	1269.5	1269.0	1267.6
22.5°	1248.2	1247.7	1246.3	1246.3	1244.3
25°	1222.6	1221.1	1220.1	1219.7	1218.2
27.5°	1194.5	1192.6	1191.1	1190.1	1188.7
30°	1163.0	1161.1	1159.6	1158.2	1157.2
32.5°	1129.2	1128.2	1125.8	1125.3	1123.3
35°	1092.9	1091.4	1089.9	1088.0	1086.1
37.5°	1054.1	1052.7	1049.3	1048.3	1046.9
40°	1013.0	1011.1	1006.7	1006.7	1005.2
42.5°	969.0	967.0	964.1	962.2	961.2
45°	923.0	921.0	917.6	915.7	914.7
47.5°	874.1	872.6	868.8	867.3	865.9
50°	823.3	821.3	817.0	816.0	814.6
52.5°	770.0	769.1	763.3	762.8	761.3
55°	717.3	712.0	707.1	707.1	706.1
57.5°	659.2	655.3	649.0	649.0	648.1
60°	599.2	595.8	588.5	589.5	588.5
62.5°	540.6	533.4	526.6	529.5	527.1
65°	473.8	470.0	462.7	464.6	464.1
67.5°	412.8	405.6	398.8	402.7	400.7
70°	345.1	341.2	334.4	338.3	333.5
72.5°	281.2	277.8	271.0	275.4	270.6
75°	219.2	215.9	210.5	214.4	209.6
77.5°	160.7	158.3	153.4	157.3	158.3
80°	107.4	104.5	102.1	105.5	106.5
82.5°	62.9	61.0	60.0	60.5	62.9
85°	30.5	28.1	28.1	28.6	28.6
87.5°	8.2	7.3	8.2	8.7	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)