

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: P974404

Luminaire Tested: FLR2-24-40-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974404
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-L850-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L850-CP125
Ballast/Driver: -

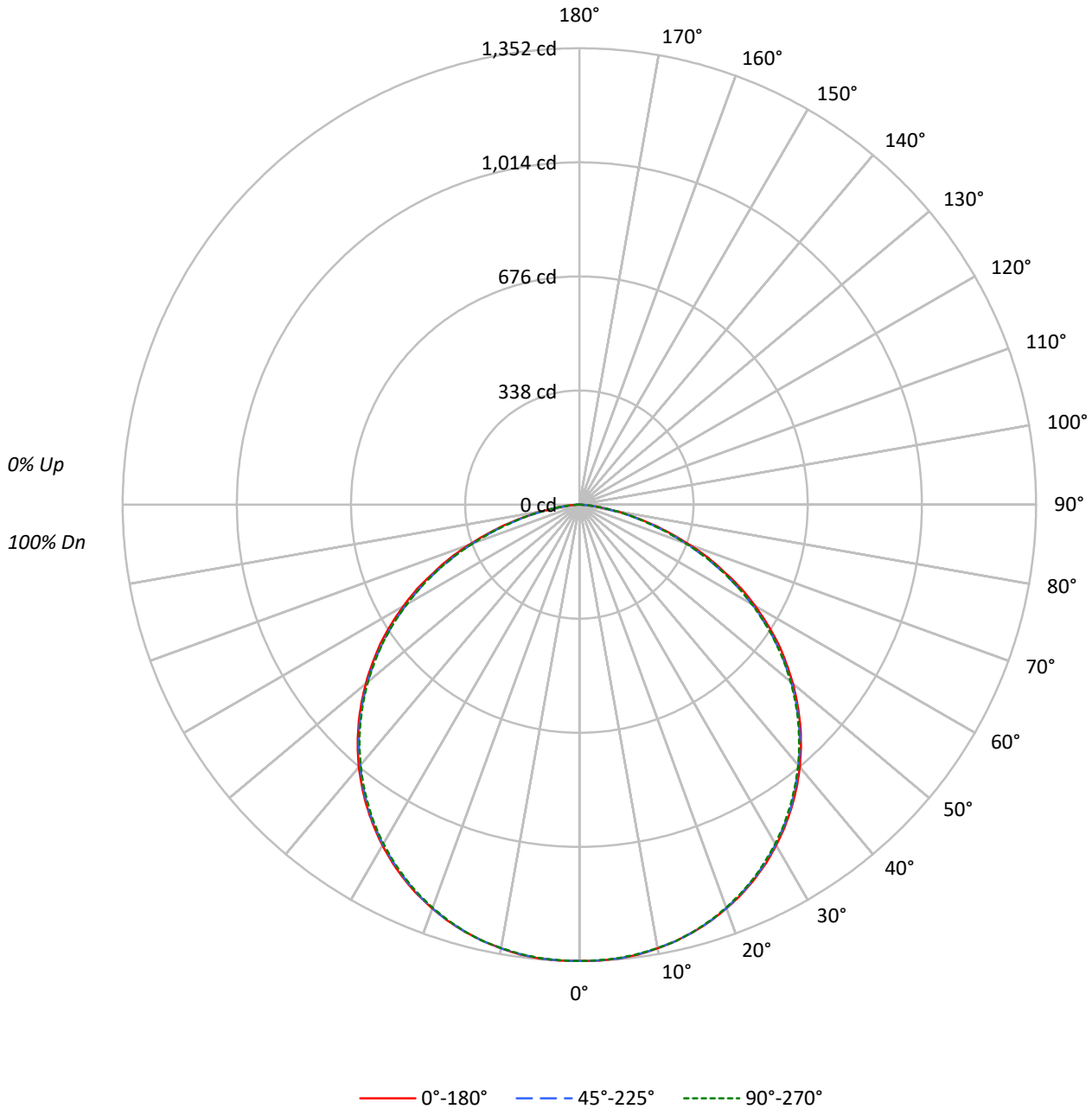
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3821.3 lumens
Efficiency: N/A
Efficacy: 126.1 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	0
RW	70	50	30	10	70	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
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°	1819	1819	1819
5°	1823	1823	1822
10°	1824	1823	1823
15°	1824	1824	1824
20°	1823	1822	1819
25°	1819	1816	1813
30°	1811	1806	1802
35°	1799	1794	1788
40°	1783	1772	1770
45°	1760	1750	1745
50°	1727	1714	1709
55°	1687	1663	1660
60°	1616	1587	1587
65°	1512	1477	1481
70°	1361	1319	1315
75°	1143	1097	1092
80°	834	793	827
85°	472	434	442

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1760 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	3.4
10°-20°	369.7	9.7
20°-30°	563.7	14.8
30°-40°	683.0	17.9
40°-50°	709.4	18.6
50°-60°	634.6	16.6
60°-70°	462.5	12.1
70°-80°	229.1	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°	1061.8	27.8
0°-40°	1744.7	45.7
0°-60°	3088.8	80.8
0°-90°	3821.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3821.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1350	1350	1350	1350	1349	128
15°	1310	1309	1309	1310	1309	370
25°	1225	1224	1223	1222	1221	565
35°	1095	1094	1092	1091	1089	685
45°	925	923	920	918	917	713
55°	719	714	709	709	708	641
65°	475	471	464	466	465	471
75°	220	216	211	215	210	234
85°	31	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°	1352.1	1352.1	1352.1	1352.1	1352.1
2.5°	1352.1	1351.6	1351.6	1352.1	1351.1
5°	1349.6	1350.1	1349.6	1349.6	1348.7
7.5°	1344.3	1343.8	1343.3	1343.8	1342.4
10°	1335.1	1335.1	1334.6	1335.1	1334.1
12.5°	1323.9	1323.9	1323.9	1324.4	1323.9
15°	1309.8	1309.4	1309.4	1310.3	1309.4
17.5°	1293.4	1292.9	1292.9	1292.4	1291.4
20°	1273.0	1273.0	1272.5	1272.0	1270.6
22.5°	1251.1	1250.7	1249.2	1249.2	1247.3
25°	1225.4	1224.0	1223.0	1222.5	1221.1
27.5°	1197.3	1195.4	1193.9	1192.9	1191.5
30°	1165.8	1163.8	1162.4	1160.9	1159.9
32.5°	1131.8	1130.8	1128.4	1127.9	1126.0
35°	1095.4	1094.0	1092.5	1090.6	1088.6
37.5°	1056.6	1055.2	1051.8	1050.8	1049.3
40°	1015.4	1013.4	1009.1	1009.1	1007.6
42.5°	971.2	969.3	966.4	964.4	963.5
45°	925.1	923.2	919.8	917.9	916.9
47.5°	876.1	874.7	870.8	869.4	867.9
50°	825.2	823.3	818.9	817.9	816.5
52.5°	771.8	770.9	765.0	764.6	763.1
55°	719.0	713.6	708.8	708.8	707.8
57.5°	660.7	656.9	650.6	650.6	649.6
60°	600.6	597.2	589.9	590.9	589.9
62.5°	541.9	534.6	527.8	530.7	528.3
65°	474.9	471.1	463.8	465.7	465.2
67.5°	413.8	406.5	399.7	403.6	401.7
70°	345.9	342.0	335.2	339.1	334.3
72.5°	281.9	278.5	271.7	276.0	271.2
75°	219.8	216.4	211.0	214.9	210.1
77.5°	161.1	158.6	153.8	157.7	158.6
80°	107.7	104.8	102.4	105.8	106.7
82.5°	63.1	61.1	60.2	60.6	63.1
85°	30.6	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)