

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: P974444

Luminaire Tested: FLR2-24-40-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974444
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L850-CA125
Ballast/Driver: -

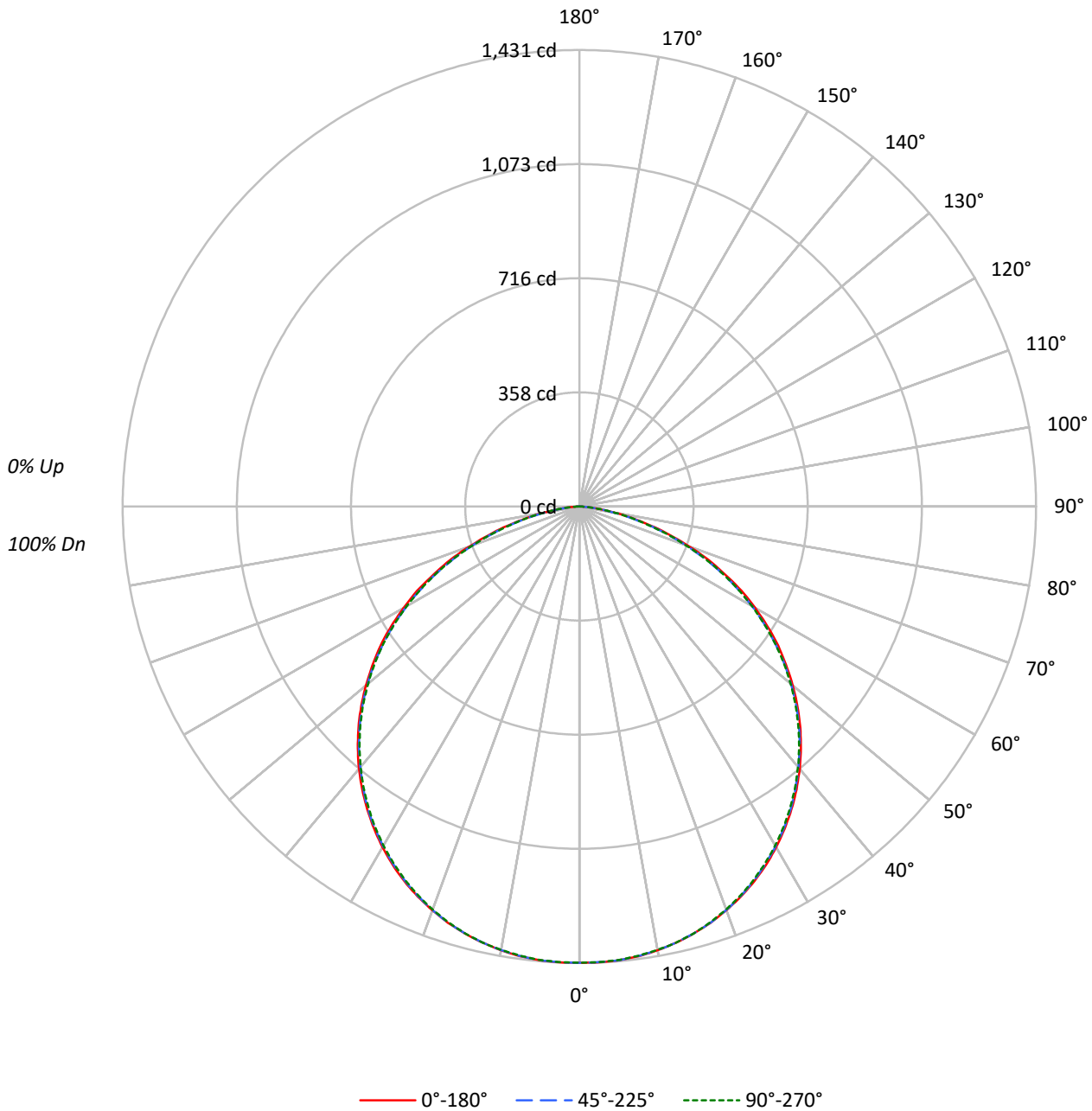
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4043.4 lumens
Efficiency: N/A
Efficacy: 133.4 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°	1925	1925	1925
5°	1929	1929	1927
10°	1930	1929	1929
15°	1931	1930	1930
20°	1929	1928	1925
25°	1925	1921	1918
30°	1916	1911	1907
35°	1904	1899	1892
40°	1887	1875	1873
45°	1863	1852	1846
50°	1828	1814	1808
55°	1784	1759	1757
60°	1710	1680	1680
65°	1600	1562	1567
70°	1440	1395	1391
75°	1209	1161	1156
80°	883	839	875
85°	499	460	468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1863 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	3.4
10°-20°	391.2	9.7
20°-30°	596.5	14.8
30°-40°	722.7	17.9
40°-50°	750.7	18.6
50°-60°	671.5	16.6
60°-70°	489.4	12.1
70°-80°	242.4	6.0
80°-90°	43.3	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°	1123.5	27.8
0°-40°	1846.1	45.7
0°-60°	3268.3	80.8
0°-90°	4043.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4043.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1428	1429	1428	1428	1427	136
15°	1386	1386	1386	1386	1386	391
25°	1297	1295	1294	1294	1292	598
35°	1159	1158	1156	1154	1152	725
45°	979	977	973	971	970	754
55°	761	755	750	750	749	678
65°	502	498	491	493	492	498
75°	232	229	223	227	222	248
85°	32	30	30	30	30	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1430.6	1430.6	1430.6	1430.6	1430.6
2.5°	1430.6	1430.1	1430.1	1430.6	1429.6
5°	1428.1	1428.6	1428.1	1428.1	1427.0
7.5°	1422.4	1421.9	1421.4	1421.9	1420.4
10°	1412.7	1412.7	1412.2	1412.7	1411.6
12.5°	1400.9	1400.9	1400.9	1401.4	1400.9
15°	1386.0	1385.5	1385.5	1386.5	1385.5
17.5°	1368.5	1368.0	1368.0	1367.5	1366.5
20°	1347.0	1347.0	1346.4	1345.9	1344.4
22.5°	1323.9	1323.3	1321.8	1321.8	1319.8
25°	1296.7	1295.1	1294.1	1293.6	1292.0
27.5°	1266.9	1264.8	1263.3	1262.3	1260.7
30°	1233.5	1231.5	1229.9	1228.4	1227.4
32.5°	1197.6	1196.6	1194.0	1193.5	1191.4
35°	1159.1	1157.5	1156.0	1154.0	1151.9
37.5°	1118.0	1116.5	1112.9	1111.9	1110.3
40°	1074.4	1072.3	1067.7	1067.7	1066.2
42.5°	1027.7	1025.6	1022.5	1020.5	1019.5
45°	978.9	976.9	973.3	971.2	970.2
47.5°	927.1	925.5	921.4	919.9	918.3
50°	873.2	871.1	866.5	865.5	863.9
52.5°	816.7	815.7	809.5	809.0	807.5
55°	760.7	755.1	750.0	750.0	748.9
57.5°	699.1	695.0	688.4	688.4	687.3
60°	635.5	631.9	624.2	625.2	624.2
62.5°	573.4	565.7	558.5	561.6	559.0
65°	502.5	498.4	490.7	492.8	492.3
67.5°	437.9	430.2	423.0	427.1	425.0
70°	366.0	361.9	354.7	358.8	353.7
72.5°	298.2	294.6	287.5	292.1	286.9
75°	232.5	228.9	223.3	227.4	222.3
77.5°	170.4	167.9	162.7	166.8	167.9
80°	114.0	110.9	108.3	111.9	112.9
82.5°	66.7	64.7	63.7	64.2	66.7
85°	32.3	29.8	29.8	30.3	30.3
87.5°	8.7	7.7	8.7	9.2	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)