

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: P974389

Luminaire Tested: FLR2-24-45-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974389
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: FLR2-24-45-L940-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-45-L940-CA125
Ballast/Driver: -

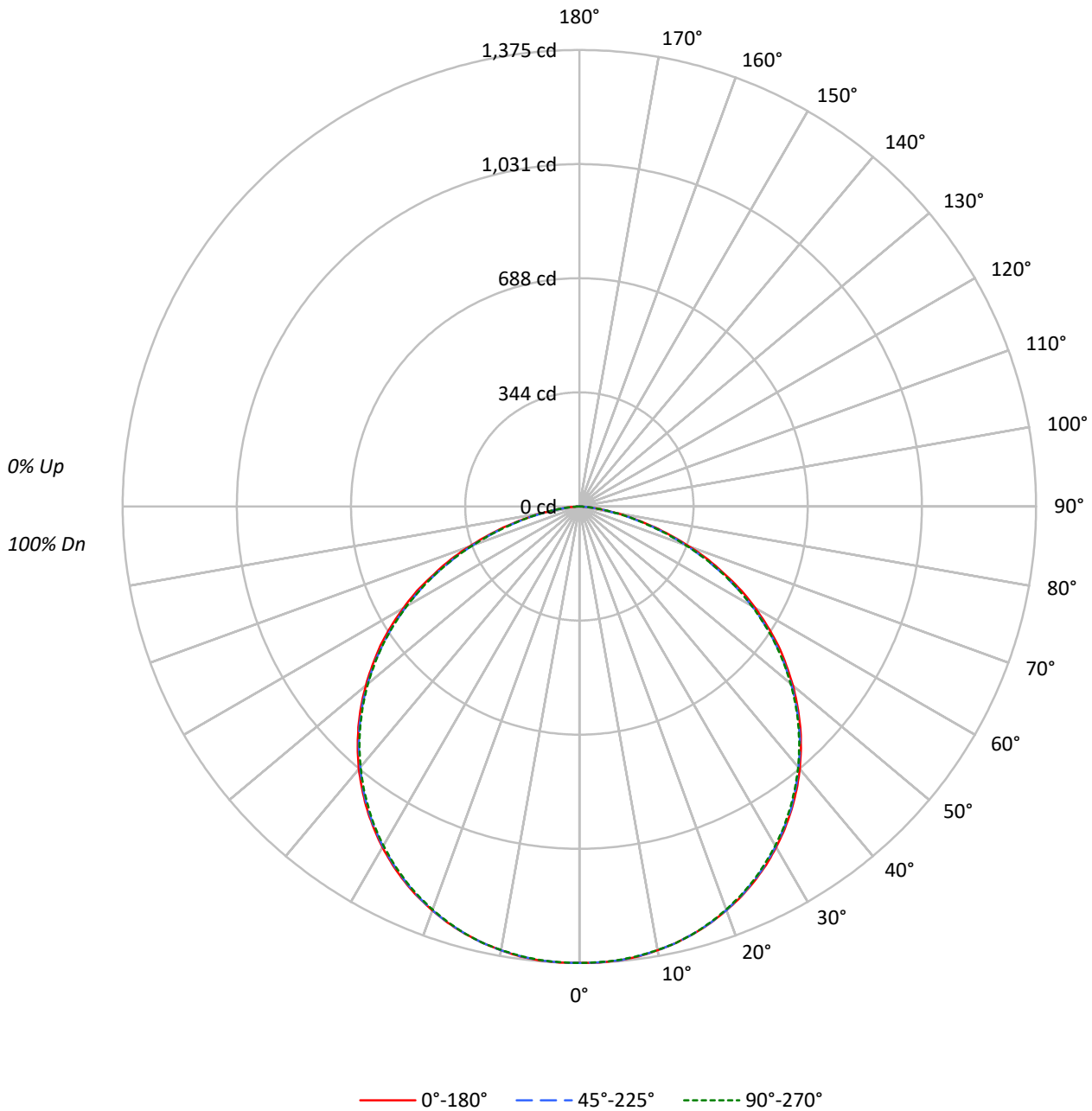
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3886.5 lumens
Efficiency: N/A
Efficacy: 109.2 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): 35.6
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°	1850	1850	1850
5°	1854	1854	1853
10°	1855	1855	1854
15°	1856	1855	1855
20°	1854	1853	1850
25°	1850	1847	1844
30°	1842	1837	1833
35°	1830	1825	1819
40°	1814	1803	1800
45°	1790	1780	1774
50°	1757	1743	1738
55°	1715	1691	1689
60°	1644	1615	1615
65°	1538	1502	1507
70°	1384	1341	1338
75°	1162	1116	1110
80°	848	807	841
85°	480	442	449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1790 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	3.4
10°-20°	376.0	9.7
20°-30°	573.3	14.8
30°-40°	694.6	17.9
40°-50°	721.5	18.6
50°-60°	645.5	16.6
60°-70°	470.4	12.1
70°-80°	233.0	6.0
80°-90°	41.6	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°	1079.9	27.8
0°-40°	1774.5	45.7
0°-60°	3141.5	80.8
0°-90°	3886.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3886.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1373	1373	1373	1373	1372	131
15°	1332	1332	1332	1333	1332	376
25°	1246	1245	1244	1243	1242	574
35°	1114	1113	1111	1109	1107	697
45°	941	939	936	934	932	725
55°	731	726	721	721	720	651
65°	483	479	472	474	473	479
75°	224	220	215	219	214	238
85°	31	29	29	29	29	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1375.1	1375.1	1375.1	1375.1	1375.1
2.5°	1375.1	1374.6	1374.6	1375.1	1374.1
5°	1372.6	1373.1	1372.6	1372.6	1371.7
7.5°	1367.2	1366.7	1366.2	1366.7	1365.2
10°	1357.8	1357.8	1357.4	1357.8	1356.9
12.5°	1346.5	1346.5	1346.5	1347.0	1346.5
15°	1332.2	1331.7	1331.7	1332.7	1331.7
17.5°	1315.4	1314.9	1314.9	1314.4	1313.4
20°	1294.7	1294.7	1294.2	1293.7	1292.2
22.5°	1272.5	1272.0	1270.5	1270.5	1268.5
25°	1246.3	1244.9	1243.9	1243.4	1241.9
27.5°	1217.7	1215.7	1214.3	1213.3	1211.8
30°	1185.6	1183.7	1182.2	1180.7	1179.7
32.5°	1151.1	1150.1	1147.7	1147.2	1145.2
35°	1114.1	1112.6	1111.1	1109.2	1107.2
37.5°	1074.6	1073.2	1069.7	1068.7	1067.2
40°	1032.7	1030.7	1026.3	1026.3	1024.8
42.5°	987.8	985.8	982.9	980.9	979.9
45°	940.9	938.9	935.5	933.5	932.5
47.5°	891.1	889.6	885.7	884.2	882.7
50°	839.3	837.3	832.9	831.9	830.4
52.5°	785.0	784.0	778.1	777.6	776.1
55°	731.2	725.8	720.9	720.9	719.9
57.5°	672.0	668.1	661.7	661.7	660.7
60°	610.8	607.4	600.0	601.0	600.0
62.5°	551.1	543.7	536.8	539.8	537.3
65°	483.0	479.1	471.7	473.7	473.2
67.5°	420.9	413.5	406.6	410.5	408.5
70°	351.8	347.8	340.9	344.9	340.0
72.5°	286.7	283.2	276.3	280.7	275.8
75°	223.5	220.1	214.6	218.6	213.6
77.5°	163.8	161.3	156.4	160.4	161.3
80°	109.5	106.6	104.1	107.6	108.5
82.5°	64.1	62.2	61.2	61.7	64.1
85°	31.1	28.6	28.6	29.1	29.1
87.5°	8.4	7.4	8.4	8.9	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)