

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: P974277

Luminaire Tested: FLR2-24-45-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974277
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-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-45-L935-CA125
Ballast/Driver: -

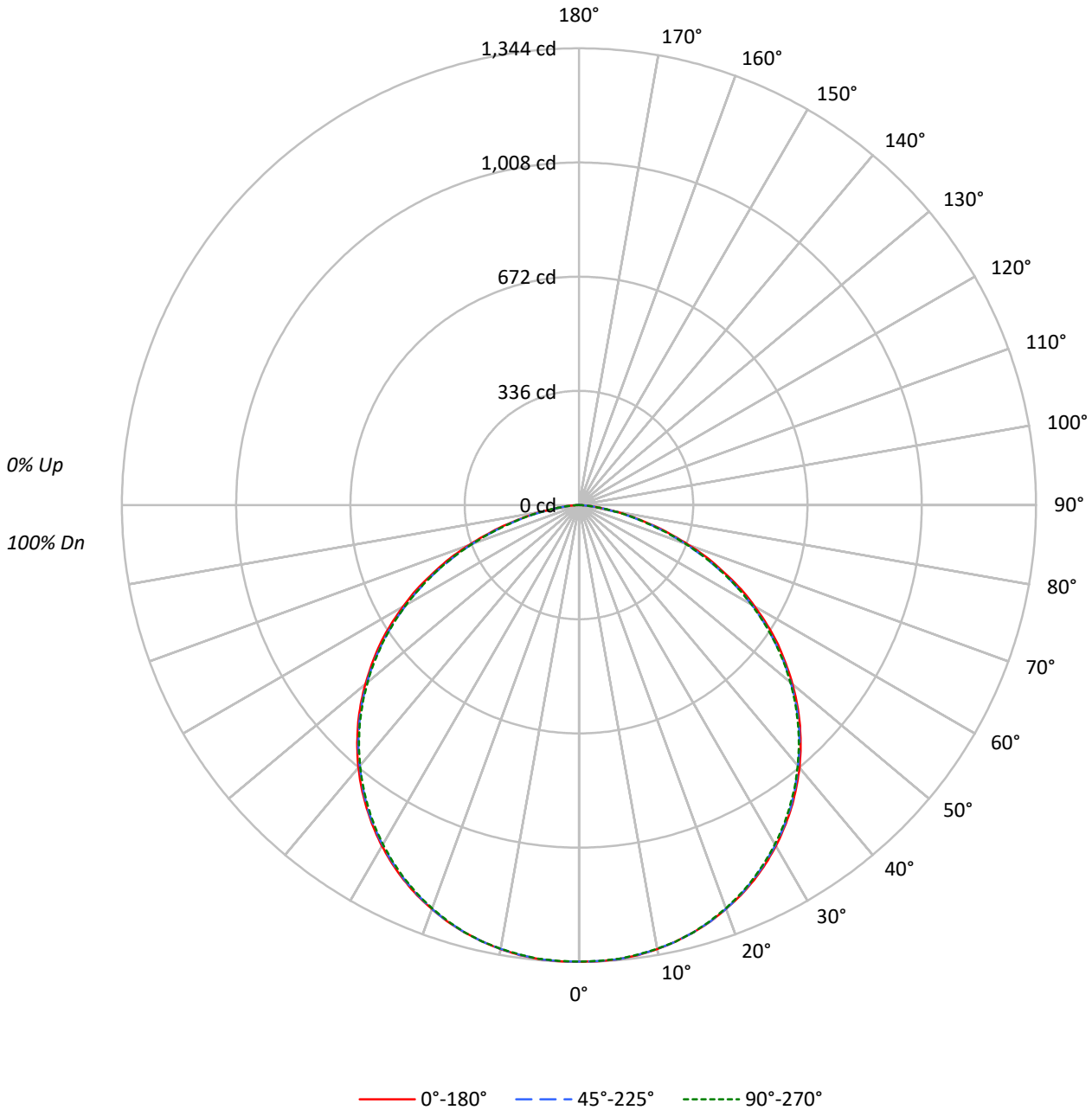
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3797.2 lumens
Efficiency: N/A
Efficacy: 106.7 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									
RC	80									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°	1808	1808	1808
5°	1811	1811	1810
10°	1812	1812	1811
15°	1813	1812	1812
20°	1811	1810	1808
25°	1808	1804	1801
30°	1800	1794	1791
35°	1788	1783	1777
40°	1772	1761	1759
45°	1749	1739	1734
50°	1716	1703	1698
55°	1676	1652	1650
60°	1606	1577	1577
65°	1502	1467	1472
70°	1352	1310	1306
75°	1135	1090	1085
80°	829	788	822
85°	469	432	438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1749 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	3.4
10°-20°	367.4	9.7
20°-30°	560.1	14.8
30°-40°	678.6	17.9
40°-50°	705.0	18.6
50°-60°	630.6	16.6
60°-70°	459.6	12.1
70°-80°	227.6	6.0
80°-90°	40.7	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°	1055.0	27.8
0°-40°	1733.7	45.7
0°-60°	3069.3	80.8
0°-90°	3797.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3797.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1344	1344	1344	1344	1344	
5°	1341	1342	1341	1341	1340	128
15°	1302	1301	1301	1302	1301	367
25°	1218	1216	1215	1215	1213	561
35°	1088	1087	1086	1084	1082	681
45°	919	917	914	912	911	708
55°	714	709	704	704	703	637
65°	472	468	461	463	462	468
75°	218	215	210	214	209	233
85°	30	28	28	28	28	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1343.5	1343.5	1343.5	1343.5	1343.5
2.5°	1343.5	1343.0	1343.0	1343.5	1342.5
5°	1341.1	1341.6	1341.1	1341.1	1340.1
7.5°	1335.8	1335.3	1334.8	1335.3	1333.9
10°	1326.6	1326.6	1326.2	1326.6	1325.7
12.5°	1315.5	1315.5	1315.5	1316.0	1315.5
15°	1301.6	1301.1	1301.1	1302.0	1301.1
17.5°	1285.2	1284.7	1284.7	1284.2	1283.2
20°	1264.9	1264.9	1264.4	1264.0	1262.5
22.5°	1243.2	1242.8	1241.3	1241.3	1239.4
25°	1217.7	1216.2	1215.3	1214.8	1213.3
27.5°	1189.7	1187.8	1186.4	1185.4	1183.9
30°	1158.4	1156.5	1155.0	1153.6	1152.6
32.5°	1124.6	1123.7	1121.3	1120.8	1118.9
35°	1088.5	1087.0	1085.6	1083.7	1081.7
37.5°	1049.9	1048.5	1045.1	1044.1	1042.7
40°	1009.0	1007.0	1002.7	1002.7	1001.2
42.5°	965.1	963.2	960.3	958.3	957.4
45°	919.3	917.4	914.0	912.1	911.1
47.5°	870.6	869.2	865.3	863.9	862.4
50°	820.0	818.1	813.7	812.8	811.3
52.5°	767.0	766.0	760.2	759.7	758.3
55°	714.4	709.1	704.3	704.3	703.3
57.5°	656.6	652.7	646.4	646.4	645.5
60°	596.8	593.4	586.2	587.2	586.2
62.5°	538.5	531.2	524.5	527.4	525.0
65°	471.9	468.1	460.9	462.8	462.3
67.5°	411.2	404.0	397.2	401.1	399.1
70°	343.7	339.9	333.1	337.0	332.1
72.5°	280.1	276.7	270.0	274.3	269.5
75°	218.4	215.0	209.7	213.6	208.7
77.5°	160.0	157.6	152.8	156.7	157.6
80°	107.0	104.1	101.7	105.1	106.1
82.5°	62.7	60.7	59.8	60.3	62.7
85°	30.4	28.0	28.0	28.4	28.4
87.5°	8.2	7.2	8.2	8.7	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)