

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: P974253

Luminaire Tested: FLR2-24-45-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974253
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-45-L935-CP250
Ballast/Driver: -

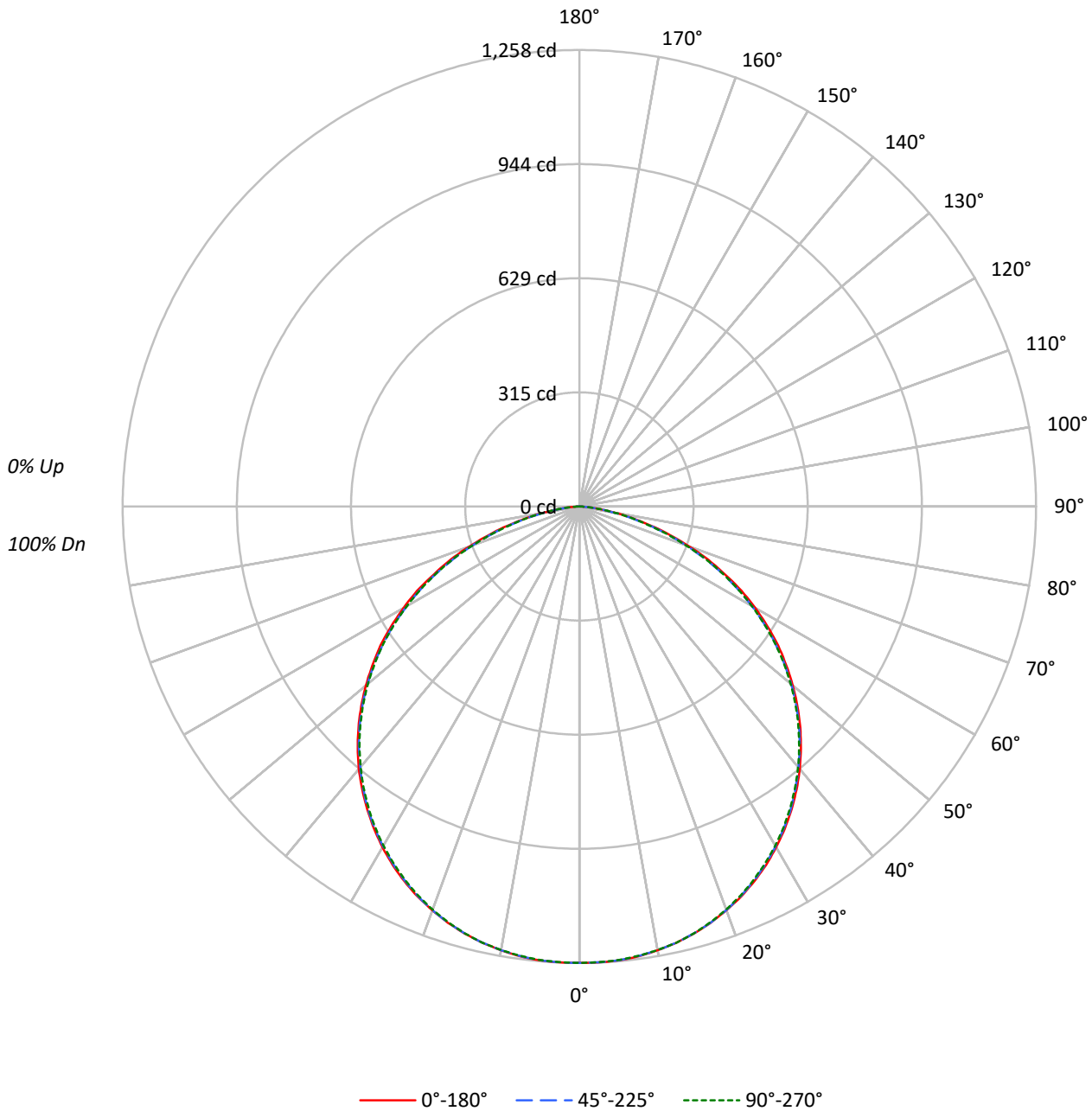
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3555.2 lumens
Efficiency: N/A
Efficacy: 99.9 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°	1692	1692	1692
5°	1696	1696	1695
10°	1697	1696	1696
15°	1697	1697	1697
20°	1696	1695	1693
25°	1693	1689	1686
30°	1685	1680	1677
35°	1674	1669	1664
40°	1659	1649	1646
45°	1638	1628	1623
50°	1607	1595	1590
55°	1569	1547	1545
60°	1504	1477	1477
65°	1407	1374	1378
70°	1266	1227	1223
75°	1063	1020	1016
80°	776	738	769
85°	438	404	411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1638 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	3.4
10°-20°	344.0	9.7
20°-30°	524.4	14.8
30°-40°	635.4	17.9
40°-50°	660.0	18.6
50°-60°	590.4	16.6
60°-70°	430.3	12.1
70°-80°	213.1	6.0
80°-90°	38.1	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°	987.8	27.8
0°-40°	1623.2	45.7
0°-60°	2873.7	80.8
0°-90°	3555.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3555.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1256	1256	1256	1256	1255	119
15°	1219	1218	1218	1219	1218	344
25°	1140	1139	1138	1137	1136	525
35°	1019	1018	1016	1015	1013	637
45°	861	859	856	854	853	663
55°	669	664	659	659	658	596
65°	442	438	432	433	433	438
75°	204	201	196	200	195	218
85°	28	26	26	27	27	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1257.9	1257.9	1257.9	1257.9	1257.9
2.5°	1257.9	1257.4	1257.4	1257.9	1257.0
5°	1255.6	1256.1	1255.6	1255.6	1254.7
7.5°	1250.7	1250.2	1249.8	1250.2	1248.9
10°	1242.1	1242.1	1241.6	1242.1	1241.2
12.5°	1231.7	1231.7	1231.7	1232.2	1231.7
15°	1218.6	1218.2	1218.2	1219.1	1218.2
17.5°	1203.3	1202.8	1202.8	1202.4	1201.5
20°	1184.3	1184.3	1183.9	1183.4	1182.1
22.5°	1164.0	1163.6	1162.2	1162.2	1160.4
25°	1140.1	1138.7	1137.8	1137.4	1136.0
27.5°	1113.9	1112.1	1110.8	1109.9	1108.5
30°	1084.6	1082.8	1081.4	1080.1	1079.2
32.5°	1053.0	1052.1	1049.8	1049.4	1047.6
35°	1019.1	1017.8	1016.4	1014.6	1012.8
37.5°	983.0	981.7	978.5	977.6	976.3
40°	944.7	942.9	938.8	938.8	937.4
42.5°	903.6	901.8	899.1	897.3	896.4
45°	860.7	858.9	855.7	853.9	853.0
47.5°	815.1	813.8	810.2	808.8	807.5
50°	767.7	765.9	761.9	761.0	759.6
52.5°	718.1	717.2	711.8	711.3	710.0
55°	668.9	663.9	659.4	659.4	658.5
57.5°	614.7	611.1	605.3	605.3	604.3
60°	558.8	555.6	548.8	549.7	548.8
62.5°	504.1	497.4	491.1	493.8	491.5
65°	441.9	438.3	431.5	433.3	432.8
67.5°	385.0	378.2	371.9	375.5	373.7
70°	321.8	318.2	311.9	315.5	311.0
72.5°	262.2	259.1	252.8	256.8	252.3
75°	204.5	201.3	196.3	199.9	195.4
77.5°	149.8	147.6	143.1	146.7	147.6
80°	100.2	97.5	95.2	98.4	99.3
82.5°	58.7	56.9	56.0	56.4	58.7
85°	28.4	26.2	26.2	26.6	26.6
87.5°	7.7	6.8	7.7	8.1	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)