

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: P974275

Luminaire Tested: FLR2-24-35-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974275
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: FLR2-24-35-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L935-CA125
Ballast/Driver: -

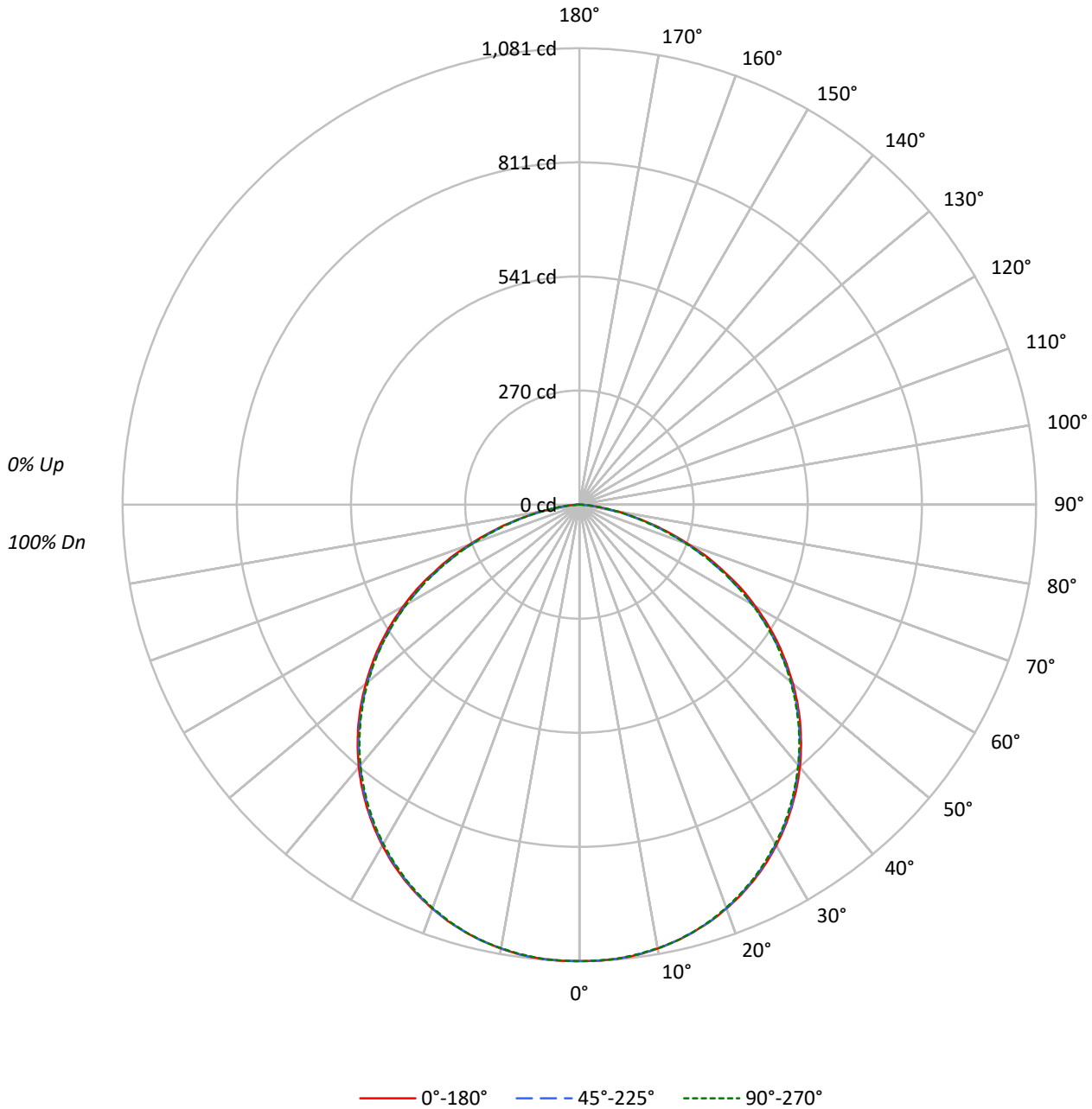
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3056.5 lumens
Efficiency: N/A
Efficacy: 107.6 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): 28.4
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

TEST NUMBER: P974275
CATALOG NUMBER: FLR2-24-35-L935-CA125

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	1455	1455	1455
5°	1458	1458	1457
10°	1459	1458	1458
15°	1459	1459	1459
20°	1458	1457	1455
25°	1455	1452	1450
30°	1449	1444	1441
35°	1439	1435	1430
40°	1426	1418	1415
45°	1408	1400	1396
50°	1382	1371	1367
55°	1349	1330	1328
60°	1293	1270	1270
65°	1209	1181	1185
70°	1089	1055	1052
75°	914	878	873
80°	667	635	662
85°	377	347	354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1408 cd/sqm



TEST NUMBER: P974275
 CATALOG NUMBER: FLR2-24-35-L935-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	3.4
10°-20°	295.7	9.7
20°-30°	450.9	14.8
30°-40°	546.3	17.9
40°-50°	567.4	18.6
50°-60°	507.6	16.6
60°-70°	370.0	12.1
70°-80°	183.2	6.0
80°-90°	32.7	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°	849.2	27.8
0°-40°	1395.5	45.7
0°-60°	2470.6	80.8
0°-90°	3056.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3056.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1080	1080	1080	1080	1079	103
15°	1048	1047	1047	1048	1047	296
25°	980	979	978	978	977	452
35°	876	875	874	872	871	548
45°	740	738	736	734	733	570
55°	575	571	567	567	566	512
65°	380	377	371	372	372	377
75°	176	173	169	172	168	187
85°	24	22	22	23	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1081.4	1081.4	1081.4	1081.4	1081.4
2.5°	1081.4	1081.0	1081.0	1081.4	1080.7
5°	1079.5	1079.9	1079.5	1079.5	1078.7
7.5°	1075.2	1074.8	1074.5	1074.8	1073.7
10°	1067.9	1067.9	1067.5	1067.9	1067.1
12.5°	1058.9	1058.9	1058.9	1059.3	1058.9
15°	1047.7	1047.3	1047.3	1048.1	1047.3
17.5°	1034.5	1034.1	1034.1	1033.7	1032.9
20°	1018.2	1018.2	1017.8	1017.4	1016.2
22.5°	1000.7	1000.3	999.2	999.2	997.6
25°	980.2	979.0	978.2	977.8	976.7
27.5°	957.7	956.1	954.9	954.2	953.0
30°	932.4	930.9	929.7	928.6	927.8
32.5°	905.3	904.5	902.6	902.2	900.6
35°	876.2	875.0	873.8	872.3	870.7
37.5°	845.1	844.0	841.2	840.5	839.3
40°	812.1	810.6	807.1	807.1	805.9
42.5°	776.8	775.3	773.0	771.4	770.6
45°	740.0	738.4	735.7	734.2	733.4
47.5°	700.8	699.6	696.5	695.3	694.2
50°	660.0	658.5	655.0	654.2	653.1
52.5°	617.4	616.6	611.9	611.5	610.4
55°	575.1	570.8	566.9	566.9	566.1
57.5°	528.5	525.4	520.3	520.3	519.6
60°	480.4	477.7	471.8	472.6	471.8
62.5°	433.4	427.6	422.2	424.5	422.6
65°	379.9	376.8	371.0	372.5	372.1
67.5°	331.0	325.2	319.7	322.8	321.3
70°	276.7	273.6	268.1	271.2	267.4
72.5°	225.4	222.7	217.3	220.8	216.9
75°	175.8	173.1	168.8	171.9	168.0
77.5°	128.8	126.9	123.0	126.1	126.9
80°	86.1	83.8	81.9	84.6	85.4
82.5°	50.4	48.9	48.1	48.5	50.4
85°	24.4	22.5	22.5	22.9	22.9
87.5°	6.6	5.8	6.6	7.0	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)