

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: P974276

Luminaire Tested: FLR2-24-40-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974276
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-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L935-CA125
Ballast/Driver: -

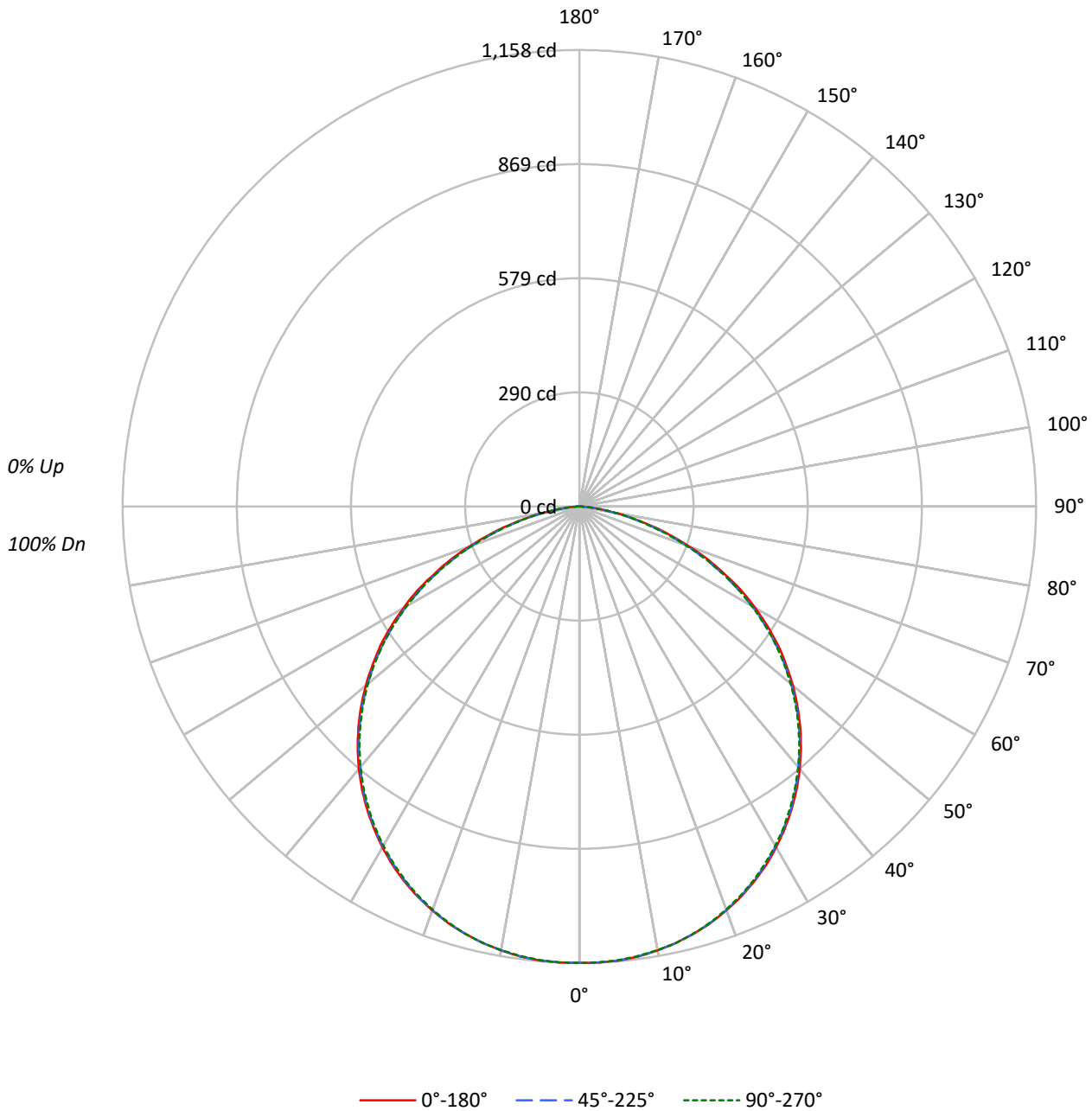
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3273.2 lumens
Efficiency: N/A
Efficacy: 108.0 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

TEST NUMBER: P974276
CATALOG NUMBER: FLR2-24-40-L935-CA125

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°	1558	1558	1558
5°	1561	1561	1560
10°	1562	1562	1561
15°	1563	1562	1562
20°	1561	1561	1558
25°	1558	1555	1553
30°	1551	1547	1544
35°	1541	1537	1532
40°	1528	1518	1516
45°	1508	1499	1494
50°	1479	1468	1464
55°	1445	1424	1422
60°	1384	1360	1360
65°	1295	1265	1269
70°	1166	1129	1126
75°	978	940	935
80°	715	680	708
85°	404	372	378

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1508 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	3.4
10°-20°	316.7	9.7
20°-30°	482.9	14.8
30°-40°	585.0	17.9
40°-50°	607.7	18.6
50°-60°	543.6	16.6
60°-70°	396.2	12.1
70°-80°	196.2	6.0
80°-90°	35.1	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°	909.5	27.8
0°-40°	1494.5	45.7
0°-60°	2645.8	80.8
0°-90°	3273.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3273.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1156	1156	1156	1156	1155	110
15°	1122	1122	1122	1122	1122	317
25°	1050	1048	1048	1047	1046	484
35°	938	937	936	934	932	587
45°	792	791	788	786	785	611
55°	616	611	607	607	606	549
65°	407	404	397	399	398	403
75°	188	185	181	184	180	201
85°	26	24	24	24	24	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.1	1158.1	1158.1	1158.1	1158.1
2.5°	1158.1	1157.7	1157.7	1158.1	1157.3
5°	1156.1	1156.5	1156.1	1156.1	1155.2
7.5°	1151.5	1151.1	1150.7	1151.1	1149.8
10°	1143.6	1143.6	1143.2	1143.6	1142.8
12.5°	1134.0	1134.0	1134.0	1134.4	1134.0
15°	1122.0	1121.6	1121.6	1122.4	1121.6
17.5°	1107.9	1107.4	1107.4	1107.0	1106.2
20°	1090.4	1090.4	1090.0	1089.6	1088.3
22.5°	1071.7	1071.3	1070.0	1070.0	1068.4
25°	1049.7	1048.4	1047.6	1047.2	1045.9
27.5°	1025.6	1023.9	1022.7	1021.8	1020.6
30°	998.6	996.9	995.7	994.4	993.6
32.5°	969.5	968.6	966.6	966.1	964.5
35°	938.3	937.1	935.8	934.2	932.5
37.5°	905.1	903.8	900.9	900.1	898.8
40°	869.7	868.1	864.3	864.3	863.1
42.5°	831.9	830.3	827.8	826.1	825.3
45°	792.4	790.8	787.9	786.2	785.4
47.5°	750.5	749.2	745.9	744.7	743.4
50°	706.8	705.2	701.4	700.6	699.4
52.5°	661.1	660.3	655.3	654.9	653.7
55°	615.8	611.3	607.1	607.1	606.3
57.5°	566.0	562.7	557.2	557.2	556.4
60°	514.4	511.5	505.3	506.1	505.3
62.5°	464.2	457.9	452.1	454.6	452.5
65°	406.8	403.5	397.3	398.9	398.5
67.5°	354.5	348.2	342.4	345.7	344.1
70°	296.3	293.0	287.1	290.5	286.3
72.5°	241.4	238.5	232.7	236.4	232.3
75°	188.2	185.3	180.8	184.1	179.9
77.5°	138.0	135.9	131.7	135.1	135.9
80°	92.3	89.8	87.7	90.6	91.4
82.5°	54.0	52.4	51.5	51.9	54.0
85°	26.2	24.1	24.1	24.5	24.5
87.5°	7.1	6.2	7.1	7.5	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)