

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: P974236

Luminaire Tested: FLR2-24-40-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974236
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L935-CP125
Ballast/Driver: -

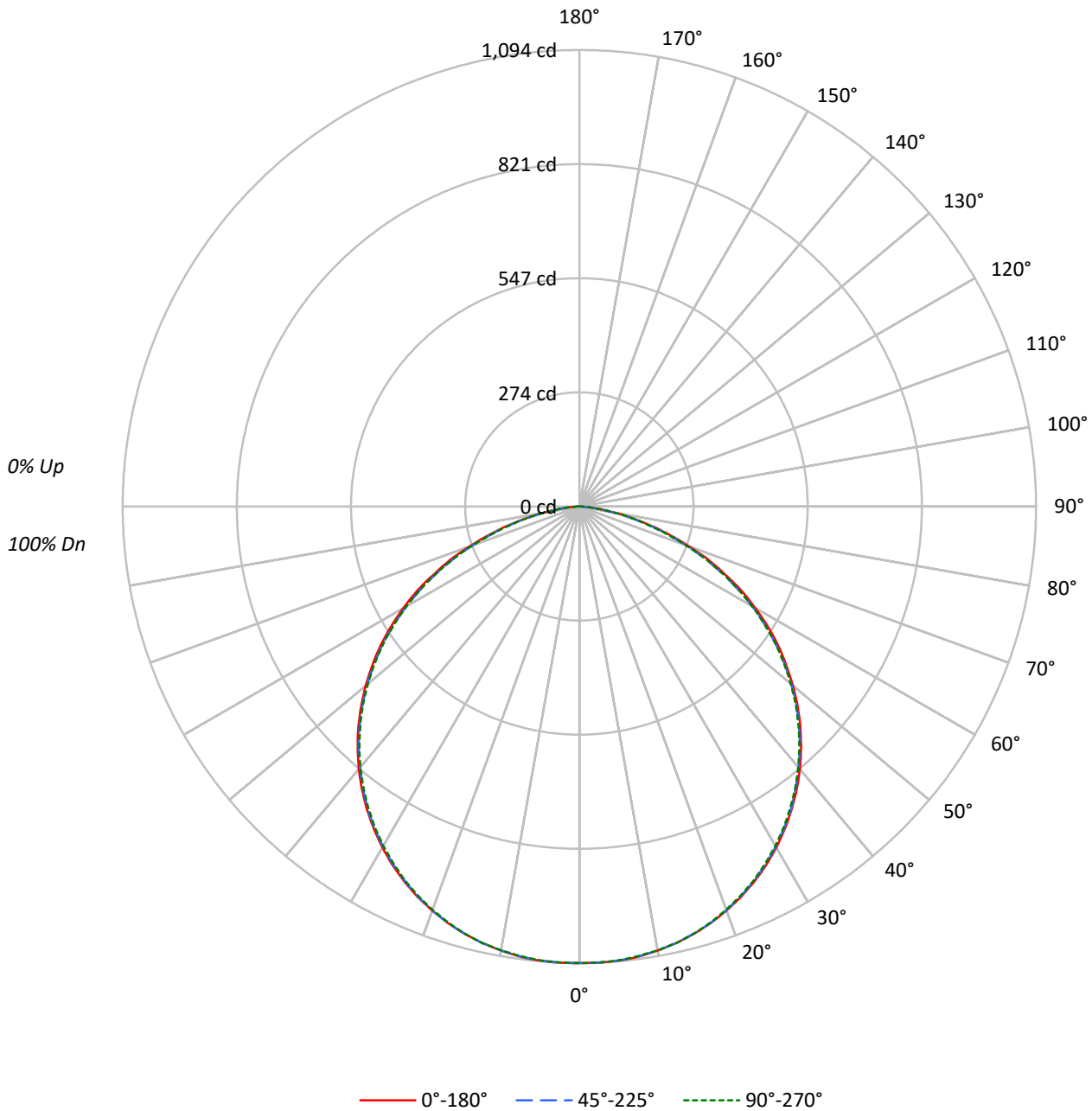
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3093.5 lumens
Efficiency: N/A
Efficacy: 102.1 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

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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									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°	1473	1473	1473
5°	1476	1476	1475
10°	1477	1476	1476
15°	1477	1477	1477
20°	1476	1475	1473
25°	1473	1470	1468
30°	1466	1462	1459
35°	1457	1453	1448
40°	1444	1435	1433
45°	1425	1417	1412
50°	1398	1388	1384
55°	1365	1346	1344
60°	1308	1285	1285
65°	1224	1195	1199
70°	1102	1068	1065
75°	925	888	884
80°	676	642	669
85°	381	352	358

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1425 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	3.4
10°-20°	299.3	9.7
20°-30°	456.3	14.8
30°-40°	552.9	17.9
40°-50°	574.3	18.6
50°-60°	513.7	16.6
60°-70°	374.4	12.1
70°-80°	185.4	6.0
80°-90°	33.2	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°	859.5	27.8
0°-40°	1412.4	45.7
0°-60°	2500.4	80.8
0°-90°	3093.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3093.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1093	1093	1093	1093	1092	104
15°	1060	1060	1060	1061	1060	299
25°	992	991	990	990	988	457
35°	887	886	884	883	881	555
45°	749	747	745	743	742	577
55°	582	578	574	574	573	519
65°	384	381	375	377	377	381
75°	178	175	171	174	170	190
85°	25	23	23	23	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1094.5	1094.5	1094.5	1094.5	1094.5
2.5°	1094.5	1094.1	1094.1	1094.5	1093.7
5°	1092.6	1092.9	1092.6	1092.6	1091.8
7.5°	1088.2	1087.8	1087.5	1087.8	1086.7
10°	1080.8	1080.8	1080.4	1080.8	1080.0
12.5°	1071.7	1071.7	1071.7	1072.1	1071.7
15°	1060.4	1060.0	1060.0	1060.7	1060.0
17.5°	1047.0	1046.6	1046.6	1046.2	1045.4
20°	1030.5	1030.5	1030.1	1029.7	1028.5
22.5°	1012.8	1012.4	1011.3	1011.3	1009.7
25°	992.0	990.8	990.1	989.7	988.5
27.5°	969.2	967.7	966.5	965.7	964.5
30°	943.7	942.1	941.0	939.8	939.0
32.5°	916.2	915.4	913.5	913.1	911.5
35°	886.8	885.6	884.4	882.8	881.3
37.5°	855.4	854.2	851.4	850.6	849.5
40°	822.0	820.4	816.9	816.9	815.7
42.5°	786.2	784.7	782.3	780.7	779.9
45°	748.9	747.4	744.6	743.0	742.2
47.5°	709.3	708.1	704.9	703.8	702.6
50°	668.0	666.5	662.9	662.1	661.0
52.5°	624.8	624.0	619.3	618.9	617.8
55°	582.0	577.7	573.8	573.8	573.0
57.5°	534.9	531.7	526.6	526.6	525.9
60°	486.2	483.4	477.6	478.3	477.6
62.5°	438.7	432.8	427.3	429.6	427.7
65°	384.5	381.3	375.4	377.0	376.6
67.5°	335.0	329.1	323.6	326.7	325.2
70°	280.0	276.9	271.4	274.5	270.6
72.5°	228.2	225.4	219.9	223.5	219.5
75°	177.9	175.2	170.8	174.0	170.0
77.5°	130.4	128.4	124.5	127.6	128.4
80°	87.2	84.8	82.9	85.6	86.4
82.5°	51.1	49.5	48.7	49.1	51.1
85°	24.7	22.8	22.8	23.2	23.2
87.5°	6.7	5.9	6.7	7.1	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)