

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: P974244

Luminaire Tested: FLR2-24-40-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974244
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L935-CP187
Ballast/Driver: -

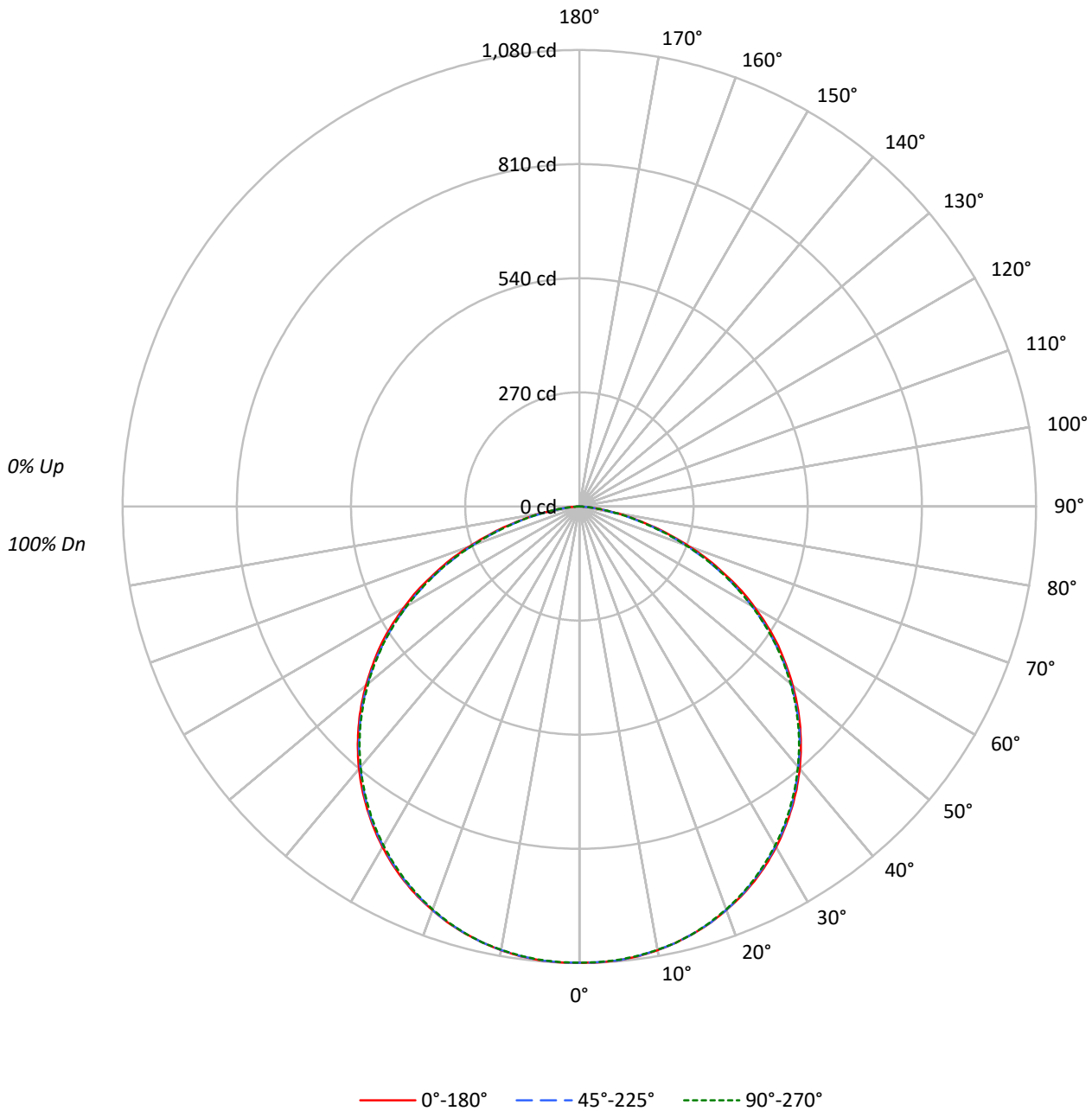
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3051.2 lumens
Efficiency: N/A
Efficacy: 100.7 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): 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: P974244
CATALOG NUMBER: FLR2-24-40-L935-CP187

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°	1453	1453	1453
5°	1455	1455	1454
10°	1456	1456	1455
15°	1457	1456	1456
20°	1455	1455	1453
25°	1453	1450	1447
30°	1446	1442	1439
35°	1437	1433	1428
40°	1424	1415	1413
45°	1406	1397	1393
50°	1379	1369	1365
55°	1347	1327	1326
60°	1290	1267	1267
65°	1207	1179	1183
70°	1087	1053	1050
75°	912	876	872
80°	666	633	660
85°	377	347	354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1406 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	3.4
10°-20°	295.2	9.7
20°-30°	450.1	14.8
30°-40°	545.3	17.9
40°-50°	566.4	18.6
50°-60°	506.7	16.6
60°-70°	369.3	12.1
70°-80°	182.9	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°	847.8	27.8
0°-40°	1393.1	45.7
0°-60°	2466.2	80.8
0°-90°	3051.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3051.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1078	1078	1078	1078	1077	103
15°	1046	1046	1046	1046	1046	295
25°	978	977	976	976	975	451
35°	875	874	872	871	869	547
45°	739	737	734	733	732	569
55°	574	570	566	566	565	511
65°	379	376	370	372	372	376
75°	176	173	168	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°	1079.6	1079.6	1079.6	1079.6	1079.6
2.5°	1079.6	1079.2	1079.2	1079.6	1078.8
5°	1077.6	1078.0	1077.6	1077.6	1076.8
7.5°	1073.4	1073.0	1072.6	1073.0	1071.8
10°	1066.0	1066.0	1065.6	1066.0	1065.2
12.5°	1057.1	1057.1	1057.1	1057.5	1057.1
15°	1045.9	1045.5	1045.5	1046.2	1045.5
17.5°	1032.7	1032.3	1032.3	1031.9	1031.1
20°	1016.4	1016.4	1016.0	1015.6	1014.5
22.5°	999.0	998.6	997.4	997.4	995.9
25°	978.5	977.3	976.5	976.1	975.0
27.5°	956.0	954.4	953.3	952.5	951.3
30°	930.8	929.3	928.1	926.9	926.2
32.5°	903.7	902.9	901.0	900.6	899.0
35°	874.6	873.5	872.3	870.8	869.2
37.5°	843.7	842.5	839.8	839.0	837.8
40°	810.7	809.2	805.7	805.7	804.5
42.5°	775.5	773.9	771.6	770.1	769.3
45°	738.7	737.1	734.4	732.9	732.1
47.5°	699.6	698.4	695.3	694.1	693.0
50°	658.9	657.3	653.9	653.1	651.9
52.5°	616.3	615.5	610.9	610.5	609.3
55°	574.1	569.8	565.9	565.9	565.1
57.5°	527.6	524.5	519.4	519.4	518.7
60°	479.5	476.8	471.0	471.8	471.0
62.5°	432.7	426.9	421.4	423.8	421.8
65°	379.2	376.1	370.3	371.9	371.5
67.5°	330.4	324.6	319.2	322.3	320.7
70°	276.2	273.1	267.7	270.8	266.9
72.5°	225.1	222.3	216.9	220.4	216.5
75°	175.5	172.8	168.5	171.6	167.7
77.5°	128.6	126.7	122.8	125.9	126.7
80°	86.0	83.7	81.7	84.4	85.2
82.5°	50.4	48.8	48.0	48.4	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)