

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: P974252

Luminaire Tested: FLR2-24-40-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974252
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L935-CP250
Ballast/Driver: -

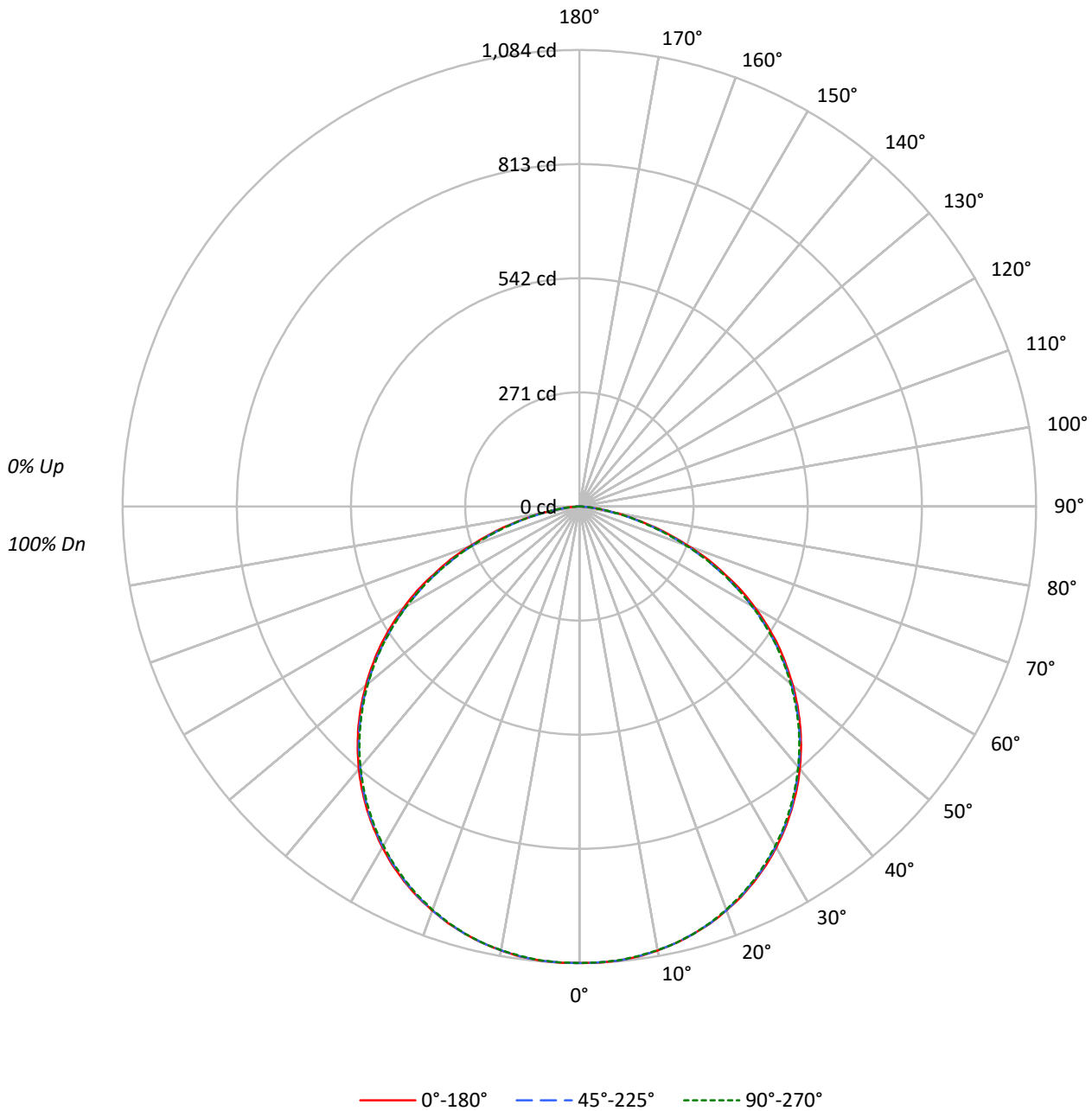
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3064.6 lumens
Efficiency: N/A
Efficacy: 101.1 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

TEST NUMBER: P974252
CATALOG NUMBER: FLR2-24-40-L935-CP250

Luminous Intensity Polar Plot





TEST NUMBER: P974252
 CATALOG NUMBER: FLR2-24-40-L935-CP250

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°	1459	1459	1459
5°	1462	1462	1461
10°	1463	1462	1462
15°	1463	1463	1463
20°	1462	1461	1459
25°	1459	1456	1454
30°	1452	1448	1445
35°	1443	1439	1434
40°	1430	1421	1419
45°	1412	1404	1399
50°	1385	1375	1371
55°	1353	1333	1332
60°	1296	1273	1273
65°	1213	1184	1188
70°	1091	1057	1055
75°	916	880	876
80°	669	636	663
85°	378	349	355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1412 cd/sqm



TEST NUMBER: P974252
 CATALOG NUMBER: FLR2-24-40-L935-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	3.4
10°-20°	296.5	9.7
20°-30°	452.1	14.8
30°-40°	547.7	17.9
40°-50°	569.0	18.6
50°-60°	509.0	16.6
60°-70°	370.9	12.1
70°-80°	183.7	6.0
80°-90°	32.8	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°	851.5	27.8
0°-40°	1399.3	45.7
0°-60°	2477.2	80.8
0°-90°	3064.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3064.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1084	1084	1084	1084	1084	
5°	1082	1083	1082	1082	1082	103
15°	1050	1050	1050	1051	1050	297
25°	983	982	981	980	979	453
35°	878	877	876	875	873	549
45°	742	740	738	736	735	572
55°	577	572	568	568	568	514
65°	381	378	372	374	373	378
75°	176	174	169	172	168	188
85°	24	23	23	23	23	34
90°	0	0	0	0	0	



TEST NUMBER: P974252
 CATALOG NUMBER: FLR2-24-40-L935-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1084.3	1084.3	1084.3	1084.3	1084.3
2.5°	1084.3	1083.9	1083.9	1084.3	1083.6
5°	1082.4	1082.8	1082.4	1082.4	1081.6
7.5°	1078.1	1077.7	1077.3	1077.7	1076.6
10°	1070.7	1070.7	1070.3	1070.7	1069.9
12.5°	1061.8	1061.8	1061.8	1062.2	1061.8
15°	1050.5	1050.1	1050.1	1050.9	1050.1
17.5°	1037.3	1036.9	1036.9	1036.5	1035.7
20°	1020.9	1020.9	1020.5	1020.1	1019.0
22.5°	1003.4	1003.0	1001.9	1001.9	1000.3
25°	982.8	981.6	980.8	980.5	979.3
27.5°	960.2	958.7	957.5	956.7	955.6
30°	934.9	933.4	932.2	931.0	930.3
32.5°	907.7	906.9	905.0	904.6	903.0
35°	878.5	877.3	876.2	874.6	873.1
37.5°	847.4	846.2	843.5	842.7	841.6
40°	814.3	812.8	809.3	809.3	808.1
42.5°	778.9	777.4	775.0	773.5	772.7
45°	742.0	740.4	737.7	736.1	735.3
47.5°	702.7	701.5	698.4	697.2	696.0
50°	661.8	660.2	656.7	656.0	654.8
52.5°	619.0	618.2	613.6	613.2	612.0
55°	576.6	572.3	568.4	568.4	567.7
57.5°	529.9	526.8	521.7	521.7	521.0
60°	481.7	478.9	473.1	473.9	473.1
62.5°	434.6	428.8	423.3	425.6	423.7
65°	380.9	377.8	371.9	373.5	373.1
67.5°	331.9	326.0	320.6	323.7	322.1
70°	277.4	274.3	268.8	272.0	268.1
72.5°	226.0	223.3	217.9	221.4	217.5
75°	176.2	173.5	169.2	172.4	168.5
77.5°	129.2	127.2	123.3	126.4	127.2
80°	86.4	84.0	82.1	84.8	85.6
82.5°	50.6	49.0	48.2	48.6	50.6
85°	24.5	22.6	22.6	23.0	23.0
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)