

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: P974266

Luminaire Tested: FLR2-24-30-L935-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974266
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: FLR2-24-30-L935-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L935-CA080
Ballast/Driver: -

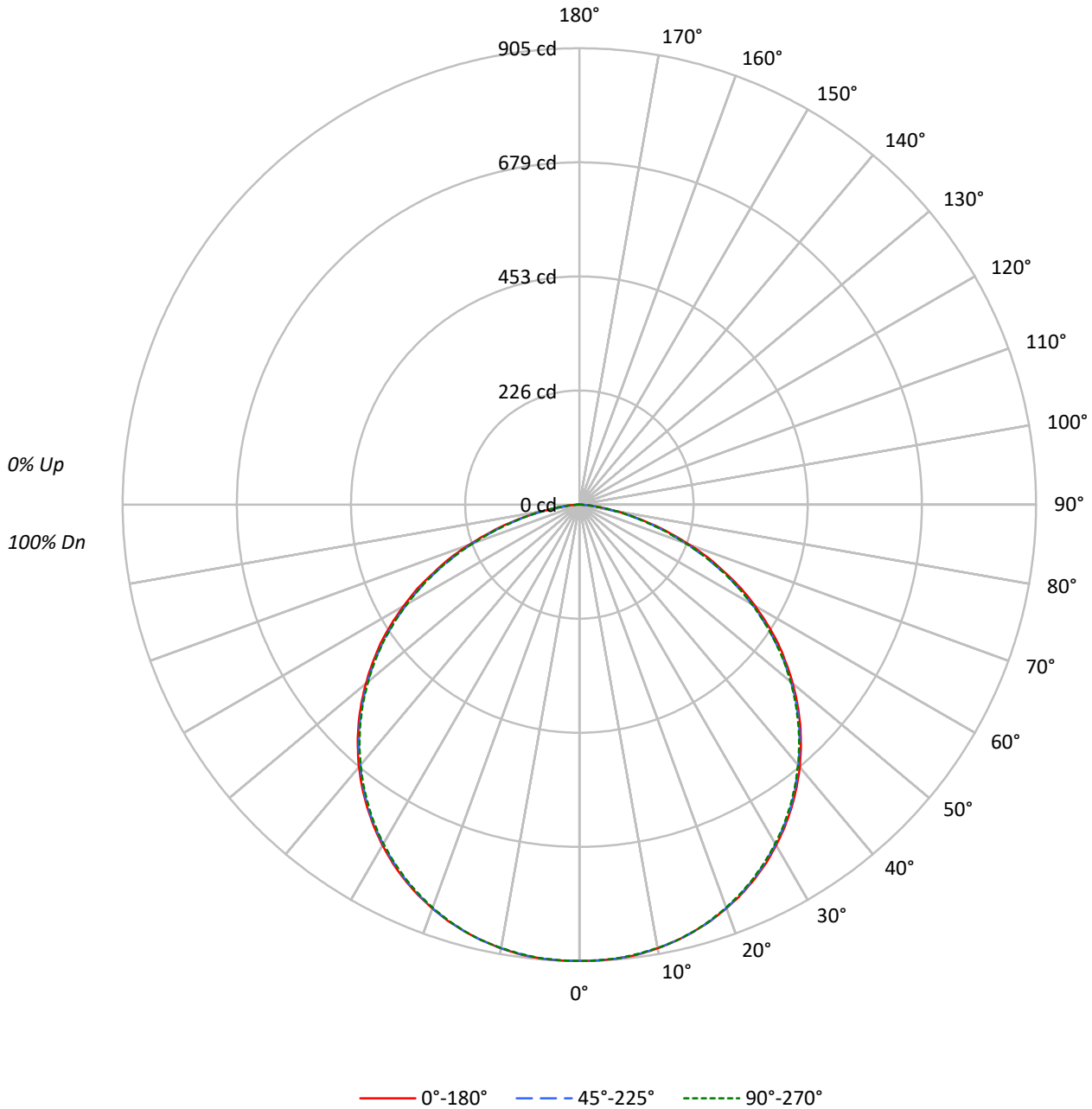
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2557.4 lumens
Efficiency: N/A
Efficacy: 107.9 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): 23.7
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: P974266
CATALOG NUMBER: FLR2-24-30-L935-CA080

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°	1218	1218	1218
5°	1220	1220	1219
10°	1221	1220	1220
15°	1221	1221	1221
20°	1220	1219	1217
25°	1218	1215	1213
30°	1212	1209	1206
35°	1204	1201	1197
40°	1193	1186	1184
45°	1178	1171	1168
50°	1156	1147	1144
55°	1129	1113	1111
60°	1082	1062	1062
65°	1012	988	991
70°	911	882	880
75°	765	734	731
80°	559	531	553
85°	316	290	296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1178 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.4
10°-20°	247.4	9.7
20°-30°	377.3	14.8
30°-40°	457.1	17.9
40°-50°	474.8	18.6
50°-60°	424.7	16.6
60°-70°	309.5	12.1
70°-80°	153.3	6.0
80°-90°	27.4	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°	710.6	27.8
0°-40°	1167.7	45.7
0°-60°	2067.2	80.8
0°-90°	2557.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2557.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	903	904	903	903	903	86
15°	877	876	876	877	876	248
25°	820	819	818	818	817	378
35°	733	732	731	730	729	459
45°	619	618	616	614	614	477
55°	481	478	474	474	474	429
65°	318	315	310	312	311	315
75°	147	145	141	144	141	157
85°	20	19	19	19	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	904.9	904.9	904.9	904.9	904.9
2.5°	904.9	904.5	904.5	904.9	904.2
5°	903.2	903.6	903.2	903.2	902.6
7.5°	899.7	899.3	899.0	899.3	898.4
10°	893.5	893.5	893.2	893.5	892.8
12.5°	886.0	886.0	886.0	886.4	886.0
15°	876.6	876.3	876.3	876.9	876.3
17.5°	865.6	865.3	865.3	864.9	864.3
20°	851.9	851.9	851.6	851.3	850.3
22.5°	837.3	837.0	836.0	836.0	834.7
25°	820.1	819.1	818.5	818.2	817.2
27.5°	801.3	800.0	799.0	798.4	797.4
30°	780.2	778.9	777.9	776.9	776.3
32.5°	757.5	756.8	755.2	754.9	753.6
35°	733.1	732.1	731.2	729.9	728.6
37.5°	707.1	706.2	703.9	703.2	702.3
40°	679.5	678.2	675.3	675.3	674.3
42.5°	650.0	648.7	646.7	645.4	644.8
45°	619.1	617.9	615.6	614.3	613.6
47.5°	586.4	585.4	582.8	581.8	580.8
50°	552.3	551.0	548.0	547.4	546.4
52.5°	516.6	515.9	512.0	511.7	510.7
55°	481.2	477.6	474.3	474.3	473.7
57.5°	442.2	439.6	435.4	435.4	434.7
60°	401.9	399.7	394.8	395.5	394.8
62.5°	362.7	357.8	353.2	355.2	353.6
65°	317.9	315.3	310.4	311.7	311.4
67.5°	276.9	272.1	267.5	270.1	268.8
70°	231.5	228.9	224.3	226.9	223.7
72.5°	188.6	186.4	181.8	184.7	181.5
75°	147.1	144.8	141.2	143.8	140.6
77.5°	107.8	106.2	102.9	105.5	106.2
80°	72.1	70.1	68.5	70.8	71.4
82.5°	42.2	40.9	40.3	40.6	42.2
85°	20.5	18.8	18.8	19.2	19.2
87.5°	5.5	4.9	5.5	5.8	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)