

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: P973394

Luminaire Tested: FLR2-14-42-L935-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-14-42-L935-CP080
Description: 1*4 FLR-2.0 4200 LUMEN at 3500 CCT & 90 CRI with Clear Polycarbonate (0.080" thickness)

Light Source:
Ballast/Driver: -

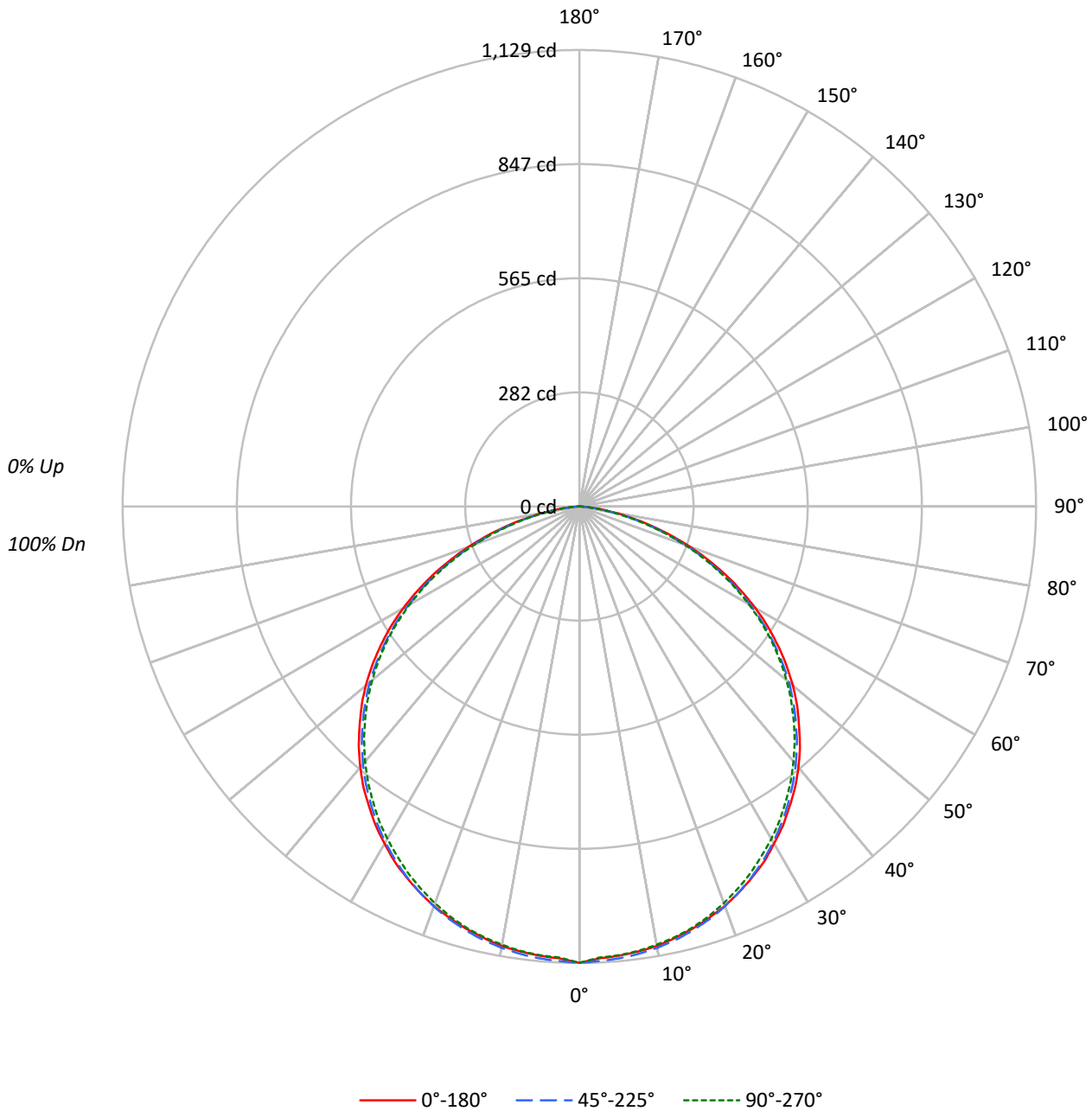
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3159.2 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.7
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

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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									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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85													
2	99	91	85	79	97	90	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	58	53	51						51													
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44													
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39													
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	40	34	29	27						27													
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25						25													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3037	3037	3037
5°	3014	3031	3010
10°	3017	3030	3008
15°	3012	3024	3005
20°	3012	3014	2990
25°	3004	2999	2971
30°	2992	2979	2950
35°	2976	2953	2924
40°	2959	2923	2894
45°	2923	2882	2852
50°	2885	2832	2799
55°	2812	2746	2720
60°	2703	2627	2605
65°	2532	2457	2430
70°	2282	2190	2172
75°	1914	1816	1798
80°	1390	1296	1260
85°	735	648	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2923 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	3.4
10°-20°	307.0	9.7
20°-30°	466.5	14.8
30°-40°	564.3	17.9
40°-50°	586.4	18.6
50°-60°	525.0	16.6
60°-70°	383.0	12.1
70°-80°	188.6	6.0
80°-90°	31.5	1.0
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°	880.4	27.9
0°-40°	1444.7	45.7
0°-60°	2556.1	80.9
0°-90°	3159.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3159.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1129	1129	1129	1129	1129	
5°	1116	1128	1122	1133	1114	106
15°	1081	1091	1085	1095	1079	305
25°	1012	1017	1010	1015	1001	467
35°	906	908	899	903	890	567
45°	768	767	757	759	749	593
55°	599	594	585	584	580	535
65°	398	393	386	383	382	393
75°	184	181	175	173	173	196
85°	24	23	21	19	19	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.7	1128.7	1128.7	1128.7	1128.7
2.5°	1118.9	1131.5	1125.5	1136.7	1116.6
5°	1115.7	1127.8	1122.2	1132.9	1114.3
7.5°	1110.1	1122.7	1116.6	1126.9	1109.1
10°	1104.0	1115.2	1108.7	1118.9	1100.7
12.5°	1093.2	1104.4	1098.4	1107.7	1090.9
15°	1081.1	1090.9	1085.3	1094.6	1078.8
17.5°	1067.1	1076.4	1070.3	1078.8	1062.9
20°	1051.7	1059.1	1052.6	1059.6	1044.2
22.5°	1032.5	1039.5	1032.5	1037.2	1023.6
25°	1011.9	1017.1	1010.1	1014.7	1000.7
27.5°	990.0	992.8	985.8	989.5	975.0
30°	962.9	966.2	958.7	963.4	949.3
32.5°	936.7	938.6	930.2	933.9	921.3
35°	905.9	907.8	898.9	902.6	890.0
37.5°	876.5	876.0	866.6	869.0	858.2
40°	842.4	841.9	832.1	833.9	823.7
42.5°	807.3	805.4	796.1	797.0	787.7
45°	768.1	767.1	757.3	758.7	749.4
47.5°	730.2	727.4	717.6	718.1	710.1
50°	689.1	684.9	676.5	675.6	668.6
52.5°	645.2	640.5	631.2	630.2	625.1
55°	599.4	594.3	585.4	584.0	579.8
57.5°	552.2	545.7	538.7	535.9	532.6
60°	502.2	496.2	488.2	485.4	484.0
62.5°	450.4	444.3	438.2	435.4	433.6
65°	397.6	392.9	385.9	383.1	381.7
67.5°	343.9	339.7	333.1	329.8	329.4
70°	290.1	285.9	278.4	276.6	276.1
72.5°	236.4	232.7	225.7	223.8	223.8
75°	184.1	180.8	174.7	172.9	172.9
77.5°	134.6	131.7	127.1	124.7	124.7
80°	89.7	87.8	83.6	81.8	81.3
82.5°	51.9	50.9	47.2	45.3	46.3
85°	23.8	22.9	21.0	18.7	19.2
87.5°	6.1	5.6	4.2	3.3	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)