

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: P973349

Luminaire Tested: FLR2-14-42-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973349
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-L830-CA125
Description: 1*4 FLR-2.0 4200 LUMEN at 3000CCT & 80CRI with Clear Acrylic (0.125" thickness)

Light Source:
Ballast/Driver: -

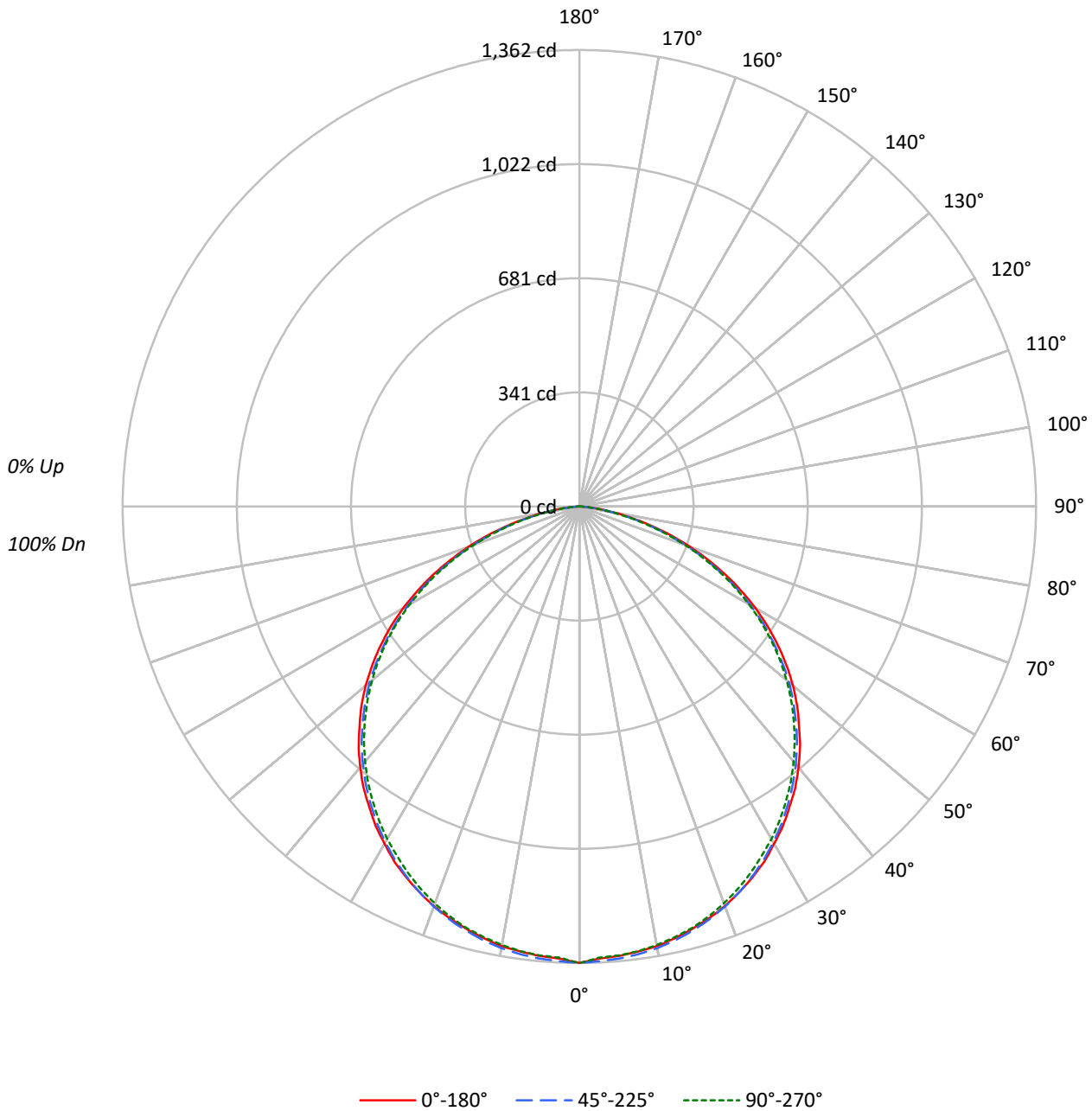
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3812.4 lumens
Efficiency: N/A
Efficacy: 120.3 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	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°	3665	3665	3665
5°	3637	3658	3632
10°	3640	3656	3630
15°	3634	3649	3627
20°	3634	3637	3609
25°	3626	3619	3586
30°	3611	3595	3560
35°	3591	3563	3528
40°	3571	3527	3492
45°	3527	3478	3441
50°	3481	3418	3378
55°	3393	3314	3283
60°	3262	3171	3144
65°	3055	2965	2933
70°	2755	2644	2622
75°	2309	2193	2169
80°	1677	1564	1520
85°	889	784	713

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3527 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	3.4
10°-20°	370.5	9.7
20°-30°	562.9	14.8
30°-40°	680.9	17.9
40°-50°	707.7	18.6
50°-60°	633.6	16.6
60°-70°	462.1	12.1
70°-80°	227.6	6.0
80°-90°	38.1	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°	1062.4	27.9
0°-40°	1743.3	45.7
0°-60°	3084.6	80.9
0°-90°	3812.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3812.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1346	1361	1354	1367	1345	128
15°	1305	1316	1310	1321	1302	368
25°	1221	1227	1219	1224	1208	563
35°	1093	1095	1085	1089	1074	685
45°	927	926	914	916	904	716
55°	723	717	706	705	700	646
65°	480	474	466	462	461	474
75°	222	218	211	209	209	237
85°	29	28	25	23	23	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1362.1	1362.1	1362.1	1362.1	1362.1
2.5°	1350.3	1365.5	1358.2	1371.7	1347.5
5°	1346.3	1361.0	1354.2	1367.2	1344.6
7.5°	1339.6	1354.8	1347.5	1359.9	1338.4
10°	1332.2	1345.8	1337.9	1350.3	1328.3
12.5°	1319.3	1332.8	1325.5	1336.7	1316.4
15°	1304.6	1316.4	1309.7	1321.0	1301.8
17.5°	1287.7	1299.0	1291.6	1301.8	1282.6
20°	1269.1	1278.1	1270.2	1278.7	1260.1
22.5°	1246.0	1254.4	1246.0	1251.6	1235.3
25°	1221.2	1227.4	1218.9	1224.5	1207.6
27.5°	1194.7	1198.0	1189.6	1194.1	1176.6
30°	1162.0	1165.9	1156.9	1162.5	1145.6
32.5°	1130.4	1132.6	1122.5	1127.0	1111.8
35°	1093.2	1095.4	1084.7	1089.2	1074.0
37.5°	1057.7	1057.1	1045.8	1048.6	1035.7
40°	1016.5	1015.9	1004.1	1006.4	994.0
42.5°	974.2	972.0	960.7	961.8	950.5
45°	926.9	925.7	913.9	915.6	904.3
47.5°	881.2	877.8	866.0	866.5	857.0
50°	831.6	826.5	816.4	815.2	806.8
52.5°	778.6	773.0	761.7	760.5	754.3
55°	723.3	717.1	706.4	704.7	699.7
57.5°	666.4	658.5	650.0	646.7	642.7
60°	606.1	598.7	589.2	585.8	584.1
62.5°	543.5	536.2	528.8	525.4	523.2
65°	479.8	474.1	465.7	462.3	460.6
67.5°	414.9	409.9	402.0	398.0	397.5
70°	350.1	345.0	336.0	333.8	333.2
72.5°	285.3	280.8	272.3	270.1	270.1
75°	222.1	218.2	210.9	208.6	208.6
77.5°	162.4	159.0	153.4	150.5	150.5
80°	108.2	106.0	100.9	98.7	98.1
82.5°	62.6	61.5	56.9	54.7	55.8
85°	28.8	27.6	25.4	22.6	23.1
87.5°	7.3	6.8	5.1	3.9	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)