

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: P973352

Luminaire Tested: FLR2-14-42-L930-CP080

Issue Date: 3/13/2025

**Test Information**

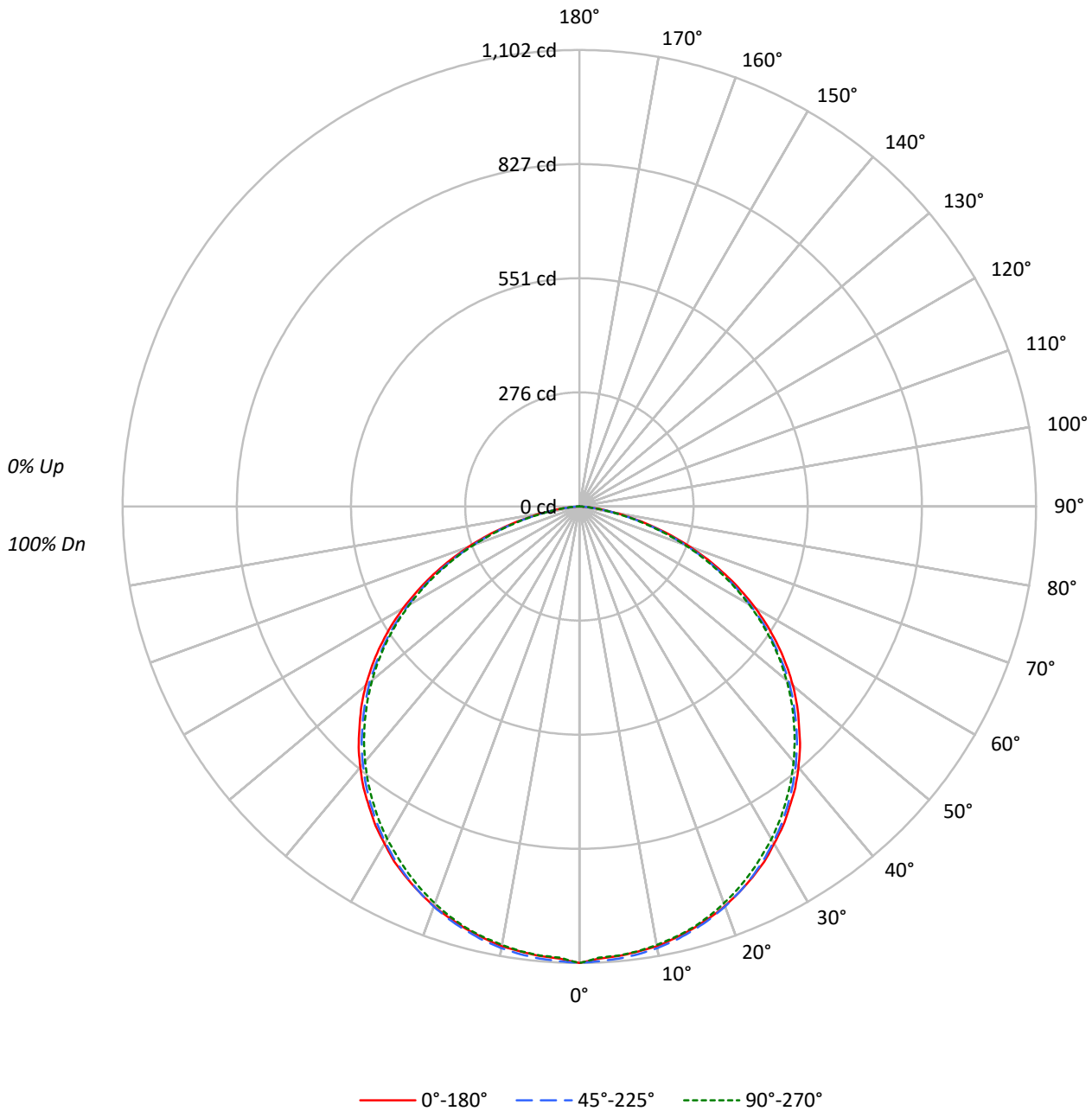
Test Method: LM-79-2019  
Report Number: P973352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-42-L930-CP080  
Description: 1\*4 FLR-2.0 4200 LUMEN at 3000CCT & 90 CRI with Clear Polycarbonate (0.080" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3084.9 lumens  
Efficiency: N/A  
Efficacy: 97.3 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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2966	2966	2966
5°	2943	2960	2939
10°	2946	2958	2937
15°	2941	2953	2935
20°	2941	2943	2920
25°	2934	2928	2901
30°	2921	2909	2880
35°	2906	2883	2855
40°	2889	2854	2825
45°	2854	2814	2785
50°	2817	2766	2733
55°	2746	2682	2656
60°	2639	2566	2544
65°	2472	2399	2373
70°	2229	2139	2121
75°	1868	1774	1755
80°	1358	1266	1230
85°	719	633	577

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2854 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.4	3.4
10°-20°	299.8	9.7
20°-30°	455.5	14.8
30°-40°	551.0	17.9
40°-50°	572.6	18.6
50°-60°	512.7	16.6
60°-70°	373.9	12.1
70°-80°	184.1	6.0
80°-90°	30.8	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°	859.7	27.9
0°-40°	1410.7	45.7
0°-60°	2496.0	80.9
0°-90°	3084.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3084.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1089	1101	1096	1106	1088	104
15°	1056	1065	1060	1069	1053	298
25°	988	993	986	991	977	456
35°	885	886	878	881	869	554
45°	750	749	740	741	732	579
55°	585	580	572	570	566	522
65°	388	384	377	374	373	383
75°	180	177	171	169	169	192
85°	23	22	20	18	19	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1102.2	1102.2	1102.2	1102.2	1102.2
2.5°	1092.6	1104.9	1099.0	1109.9	1090.3
5°	1089.4	1101.3	1095.8	1106.3	1088.0
7.5°	1083.9	1096.3	1090.3	1100.4	1083.0
10°	1078.0	1089.0	1082.6	1092.6	1074.8
12.5°	1067.5	1078.5	1072.5	1081.7	1065.2
15°	1055.7	1065.2	1059.8	1068.9	1053.4
17.5°	1042.0	1051.1	1045.2	1053.4	1037.9
20°	1026.9	1034.2	1027.8	1034.7	1019.6
22.5°	1008.2	1015.0	1008.2	1012.8	999.5
25°	988.1	993.2	986.3	990.9	977.2
27.5°	966.7	969.4	962.6	966.2	952.1
30°	940.2	943.4	936.1	940.7	927.0
32.5°	914.7	916.5	908.3	911.9	899.6
35°	884.6	886.4	877.7	881.4	869.1
37.5°	855.8	855.4	846.3	848.5	838.0
40°	822.5	822.1	812.5	814.3	804.3
42.5°	788.3	786.5	777.4	778.3	769.2
45°	750.0	749.1	739.5	740.9	731.7
47.5°	713.0	710.3	700.7	701.2	693.4
50°	672.9	668.8	660.6	659.7	652.8
52.5°	630.0	625.5	616.3	615.4	610.4
55°	585.3	580.3	571.6	570.3	566.1
57.5°	539.2	532.8	526.0	523.3	520.1
60°	490.4	484.5	476.7	474.0	472.6
62.5°	439.8	433.8	427.9	425.2	423.4
65°	388.2	383.7	376.8	374.1	372.7
67.5°	335.8	331.7	325.3	322.1	321.6
70°	283.3	279.2	271.9	270.1	269.6
72.5°	230.8	227.2	220.3	218.5	218.5
75°	179.7	176.6	170.6	168.8	168.8
77.5°	131.4	128.6	124.1	121.8	121.8
80°	87.6	85.8	81.7	79.8	79.4
82.5°	50.6	49.7	46.1	44.3	45.2
85°	23.3	22.4	20.5	18.2	18.7
87.5°	5.9	5.5	4.1	3.2	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)