

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: P973091

Luminaire Tested: FLR2-14-42HE-L930-CP125

Issue Date: 3/13/2025

**Test Information**

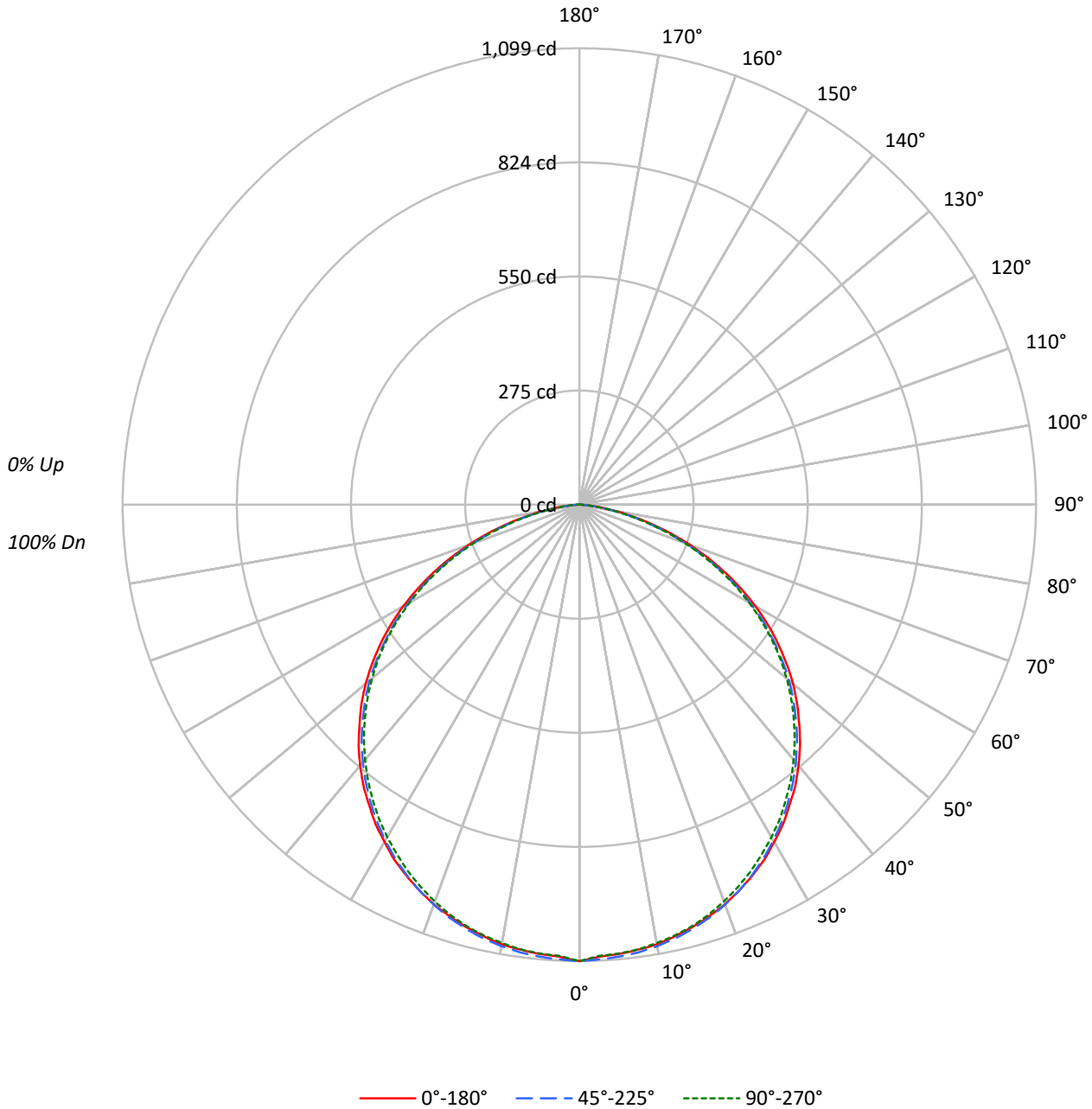
Test Method: LM-79-2019  
Report Number: P973091  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-42HE-L930-CP125  
Description: 1\*4 FLR-2.0 4200 Lumen High Efficacy at 3000CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3077.1 lumens  
Efficiency: N/A  
Efficacy: 96.5 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): 31.9  
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°	2958	2958	2958
5°	2935	2952	2932
10°	2938	2951	2930
15°	2934	2945	2927
20°	2933	2936	2912
25°	2926	2921	2894
30°	2914	2902	2873
35°	2898	2876	2848
40°	2882	2847	2818
45°	2847	2807	2778
50°	2810	2758	2726
55°	2739	2675	2649
60°	2633	2559	2537
65°	2465	2394	2367
70°	2223	2134	2116
75°	1864	1770	1751
80°	1354	1263	1227
85°	716	633	577

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2847 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.1	3.4
10°-20°	299.0	9.7
20°-30°	454.3	14.8
30°-40°	549.6	17.9
40°-50°	571.2	18.6
50°-60°	511.4	16.6
60°-70°	373.0	12.1
70°-80°	183.7	6.0
80°-90°	30.7	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°	857.5	27.9
0°-40°	1407.1	45.7
0°-60°	2489.7	80.9
0°-90°	3077.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3077.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1087	1098	1093	1104	1085	103
15°	1053	1062	1057	1066	1051	297
25°	986	991	984	988	975	454
35°	882	884	876	879	867	553
45°	748	747	738	739	730	578
55°	584	579	570	569	565	521
65°	387	383	376	373	372	383
75°	179	176	170	168	168	191
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°	1099.4	1099.4	1099.4	1099.4	1099.4
2.5°	1089.8	1102.1	1096.2	1107.1	1087.6
5°	1086.6	1098.5	1093.0	1103.5	1085.3
7.5°	1081.2	1093.5	1087.6	1097.6	1080.3
10°	1075.3	1086.2	1079.8	1089.8	1072.1
12.5°	1064.8	1075.7	1069.8	1078.9	1062.5
15°	1053.0	1062.5	1057.1	1066.2	1050.7
17.5°	1039.3	1048.4	1042.5	1050.7	1035.2
20°	1024.3	1031.6	1025.2	1032.0	1017.0
22.5°	1005.7	1012.5	1005.7	1010.2	997.0
25°	985.6	990.6	983.8	988.4	974.7
27.5°	964.2	967.0	960.1	963.8	949.7
30°	937.8	941.0	933.8	938.3	924.7
32.5°	912.4	914.2	906.0	909.6	897.4
35°	882.3	884.2	875.5	879.1	866.9
37.5°	853.7	853.2	844.1	846.4	835.9
40°	820.4	820.0	810.4	812.3	802.2
42.5°	786.3	784.5	775.4	776.3	767.2
45°	748.1	747.2	737.6	739.0	729.9
47.5°	711.2	708.5	699.0	699.4	691.7
50°	671.2	667.1	658.9	658.0	651.2
52.5°	628.4	623.9	614.8	613.9	608.9
55°	583.8	578.8	570.2	568.8	564.7
57.5°	537.9	531.5	524.7	521.9	518.8
60°	489.2	483.3	475.5	472.8	471.4
62.5°	438.7	432.7	426.8	424.1	422.3
65°	387.2	382.7	375.9	373.1	371.8
67.5°	334.9	330.8	324.4	321.3	320.8
70°	282.6	278.5	271.2	269.4	268.9
72.5°	230.3	226.6	219.8	218.0	218.0
75°	179.3	176.1	170.2	168.4	168.4
77.5°	131.1	128.3	123.8	121.5	121.5
80°	87.4	85.5	81.5	79.6	79.2
82.5°	50.5	49.6	46.0	44.1	45.0
85°	23.2	22.3	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)