

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: P973106

Luminaire Tested: FLR2-14-42HE-L930-CP375

Issue Date: 3/13/2025

**Test Information**

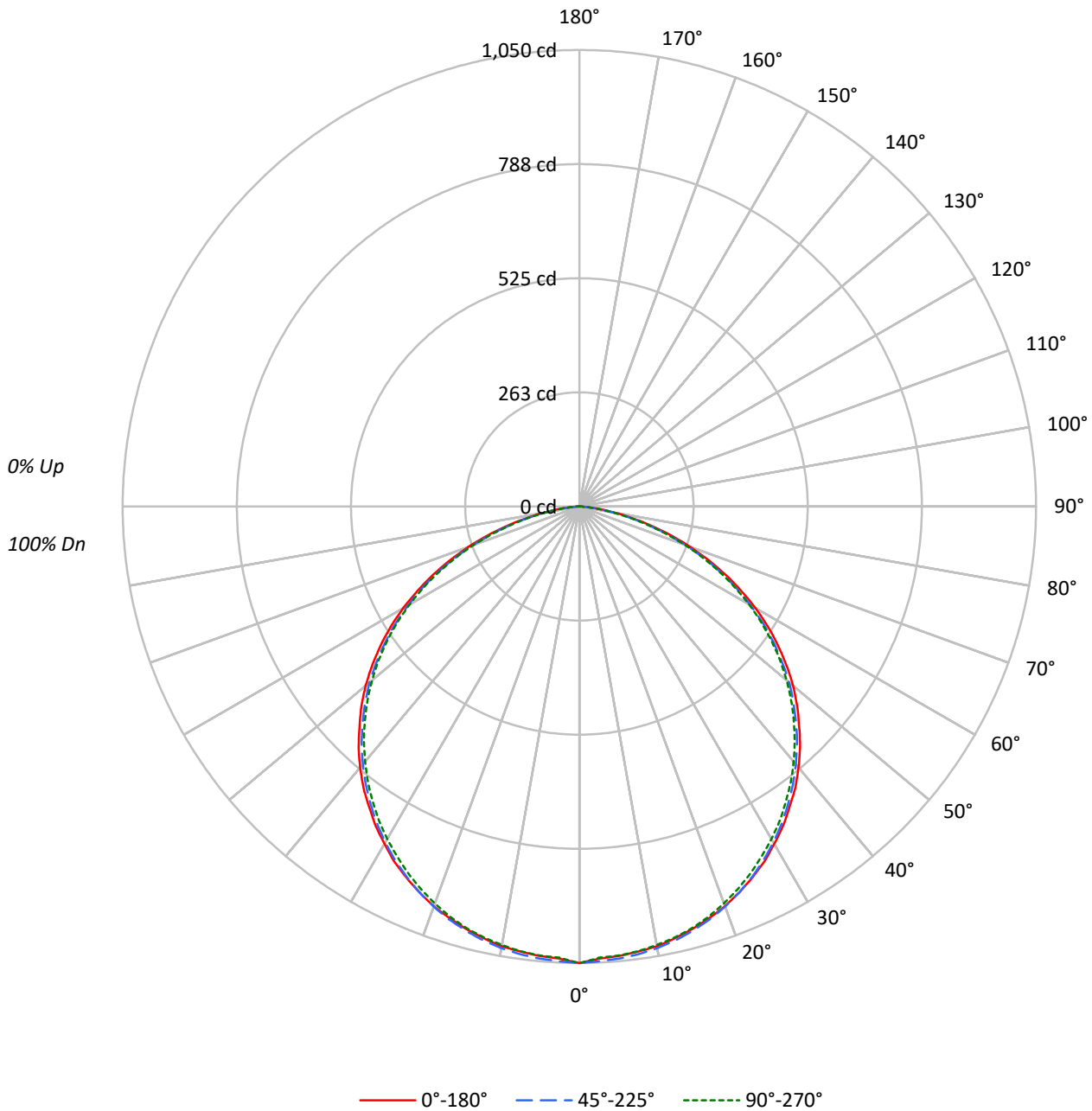
Test Method: LM-79-2019  
Report Number: P973106  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-42HE-L930-CP375  
Description: 1\*4 FLR-2.0 4200 Lumen High Efficacy at 3000CCT & 90 CRI with Clear Polycarbonate (0.375" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2939.7 lumens  
Efficiency: N/A  
Efficacy: 92.2 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				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°	2826	2826	2826
5°	2804	2821	2801
10°	2807	2819	2799
15°	2803	2813	2796
20°	2802	2805	2782
25°	2796	2791	2765
30°	2784	2772	2745
35°	2769	2748	2721
40°	2753	2720	2692
45°	2720	2682	2654
50°	2684	2635	2604
55°	2617	2556	2531
60°	2515	2445	2424
65°	2356	2287	2262
70°	2124	2039	2021
75°	1781	1691	1673
80°	1294	1206	1172
85°	685	605	550

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2720 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.5	3.4
10°-20°	285.7	9.7
20°-30°	434.0	14.8
30°-40°	525.0	17.9
40°-50°	545.7	18.6
50°-60°	488.6	16.6
60°-70°	356.4	12.1
70°-80°	175.5	6.0
80°-90°	29.3	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°	819.2	27.9
0°-40°	1344.3	45.7
0°-60°	2378.5	80.9
0°-90°	2939.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2939.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1038	1050	1044	1054	1037	99
15°	1006	1015	1010	1019	1004	284
25°	942	946	940	944	931	434
35°	843	845	836	840	828	528
45°	715	714	705	706	697	552
55°	558	553	545	543	540	498
65°	370	366	359	356	355	365
75°	171	168	163	161	161	183
85°	22	21	20	17	18	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1050.3	1050.3	1050.3	1050.3	1050.3
2.5°	1041.2	1052.9	1047.3	1057.7	1039.0
5°	1038.1	1049.5	1044.2	1054.2	1036.8
7.5°	1032.9	1044.7	1039.0	1048.6	1032.1
10°	1027.3	1037.7	1031.6	1041.2	1024.2
12.5°	1017.3	1027.7	1022.1	1030.8	1015.1
15°	1006.0	1015.1	1009.9	1018.6	1003.8
17.5°	992.9	1001.6	996.0	1003.8	989.0
20°	978.6	985.5	979.5	986.0	971.6
22.5°	960.8	967.3	960.8	965.1	952.5
25°	941.6	946.4	939.9	944.2	931.2
27.5°	921.2	923.8	917.3	920.8	907.3
30°	896.0	899.0	892.1	896.4	883.4
32.5°	871.6	873.4	865.6	869.0	857.3
35°	843.0	844.7	836.4	839.9	828.2
37.5°	815.6	815.1	806.4	808.6	798.6
40°	783.8	783.4	774.3	776.0	766.4
42.5°	751.2	749.5	740.8	741.7	733.0
45°	714.7	713.8	704.7	706.0	697.3
47.5°	679.5	676.9	667.8	668.2	660.8
50°	641.2	637.3	629.5	628.6	622.1
52.5°	600.4	596.0	587.3	586.5	581.7
55°	557.8	553.0	544.7	543.4	539.5
57.5°	513.9	507.8	501.2	498.6	495.6
60°	467.3	461.7	454.3	451.7	450.4
62.5°	419.1	413.4	407.8	405.2	403.4
65°	370.0	365.6	359.1	356.5	355.2
67.5°	320.0	316.1	310.0	306.9	306.5
70°	270.0	266.1	259.1	257.4	256.9
72.5°	220.0	216.5	210.0	208.2	208.2
75°	171.3	168.2	162.6	160.9	160.9
77.5°	125.2	122.6	118.2	116.1	116.1
80°	83.5	81.7	77.8	76.1	75.6
82.5°	48.3	47.4	43.9	42.2	43.0
85°	22.2	21.3	19.6	17.4	17.8
87.5°	5.7	5.2	3.9	3.0	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)