

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: P973316

Luminaire Tested: FLR2-14-42HE-L950-CP375

Issue Date: 3/13/2025

**Test Information**

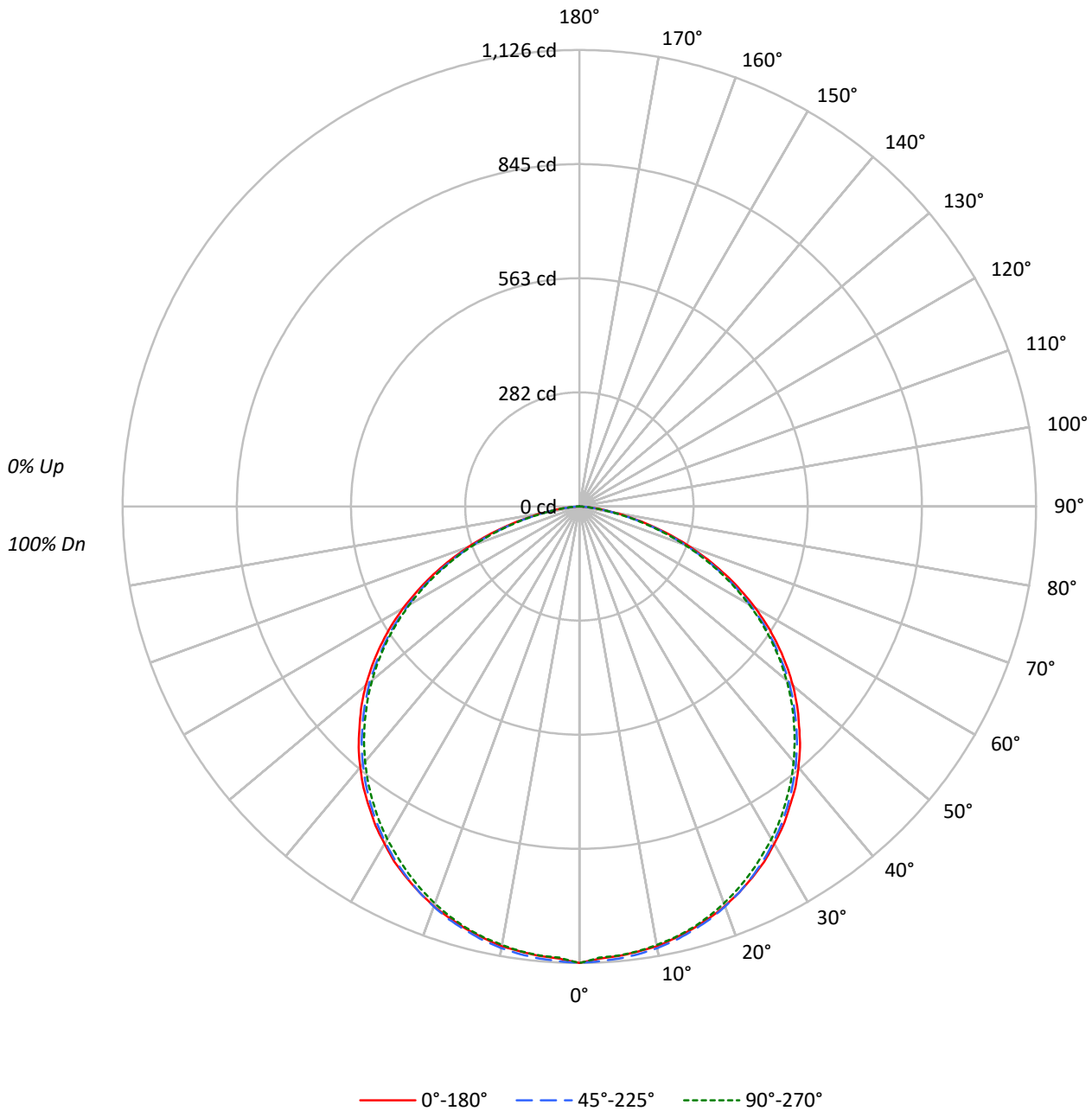
Test Method: LM-79-2019  
Report Number: P973316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-42HE-L950-CP375  
Description: 1\*4 FLR-2.0 4200 Lumen High Efficacy at 5000CCT & 90 CRI with Clear Polycarbonate (0.375" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3152.2 lumens  
Efficiency: N/A  
Efficacy: 98.8 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°	3031	3031	3031
5°	3007	3025	3003
10°	3010	3023	3001
15°	3005	3017	2999
20°	3005	3008	2984
25°	2998	2992	2965
30°	2985	2972	2943
35°	2969	2946	2917
40°	2953	2916	2887
45°	2917	2876	2845
50°	2879	2826	2793
55°	2806	2740	2714
60°	2697	2622	2599
65°	2526	2451	2425
70°	2278	2186	2168
75°	1910	1812	1794
80°	1387	1292	1257
85°	735	648	590

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2917 cd/sqm



TEST NUMBER: P973316  
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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.7	3.4
10°-20°	306.4	9.7
20°-30°	465.4	14.8
30°-40°	563.0	17.9
40°-50°	585.1	18.6
50°-60°	523.9	16.6
60°-70°	382.1	12.1
70°-80°	188.2	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°	878.5	27.9
0°-40°	1441.5	45.7
0°-60°	2550.5	80.9
0°-90°	3152.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3152.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1113	1125	1120	1130	1112	106
15°	1079	1088	1083	1092	1076	305
25°	1010	1015	1008	1012	998	465
35°	904	906	897	901	888	566
45°	766	765	756	757	748	592
55°	598	593	584	583	578	534
65°	397	392	385	382	381	392
75°	184	180	174	172	172	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°	1126.2	1126.2	1126.2	<i>1126.2</i>	1126.2
2.5°	<i>1116.5</i>	<i>1129.0</i>	<i>1123.0</i>	<i>1134.2</i>	<i>1114.1</i>
5°	1113.2	1125.3	1119.7	<i>1130.4</i>	1111.8
7.5°	1107.6	1120.2	1114.1	<i>1124.4</i>	1106.7
10°	1101.5	1112.7	1106.2	<i>1116.5</i>	1098.3
12.5°	1090.8	1102.0	1095.9	<i>1105.3</i>	1088.5
15°	1078.7	1088.5	1082.9	<i>1092.2</i>	1076.4
17.5°	1064.7	1074.0	1068.0	<i>1076.4</i>	1060.5
20°	1049.3	1056.8	1050.3	<i>1057.3</i>	1041.9
22.5°	1030.2	1037.2	1030.2	<i>1034.9</i>	1021.4
25°	1009.7	1014.8	1007.8	<i>1012.5</i>	998.5
27.5°	987.8	990.6	983.6	<i>987.3</i>	972.9
30°	960.8	964.0	956.6	<i>961.2</i>	947.2
32.5°	934.7	936.5	928.1	<i>931.9</i>	919.3
35°	903.9	905.8	896.9	<i>900.6</i>	888.0
37.5°	874.5	874.1	864.7	<i>867.1</i>	856.3
40°	840.5	840.0	830.2	<i>832.1</i>	821.8
42.5°	805.5	803.7	794.3	<i>795.3</i>	785.9
45°	766.4	765.4	755.6	<i>757.0</i>	747.7
47.5°	728.6	725.8	716.0	<i>716.5</i>	708.6
50°	687.6	683.4	675.0	<i>674.1</i>	667.1
52.5°	643.8	639.1	629.8	<i>628.9</i>	623.7
55°	598.1	593.0	584.1	<i>582.7</i>	578.5
57.5°	551.0	544.5	537.5	<i>534.7</i>	531.4
60°	501.1	495.1	487.1	<i>484.3</i>	482.9
62.5°	449.4	443.3	437.3	<i>434.5</i>	432.6
65°	396.7	392.0	385.0	<i>382.3</i>	380.9
67.5°	343.1	338.9	332.4	<i>329.1</i>	328.6
70°	289.5	285.3	277.8	<i>276.0</i>	275.5
72.5°	235.9	232.1	225.2	<i>223.3</i>	223.3
75°	183.7	180.4	174.3	<i>172.5</i>	172.5
77.5°	134.3	131.5	126.8	<i>124.5</i>	124.5
80°	89.5	87.6	83.4	<i>81.6</i>	81.1
82.5°	51.7	50.8	47.1	<i>45.2</i>	46.1
85°	23.8	22.8	21.0	<i>18.6</i>	19.1
87.5°	6.1	5.6	4.2	<i>3.3</i>	4.2
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)