

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: P973270

Luminaire Tested: FLR2-14-30HE-L850-CP187

Issue Date: 3/13/2025

**Test Information**

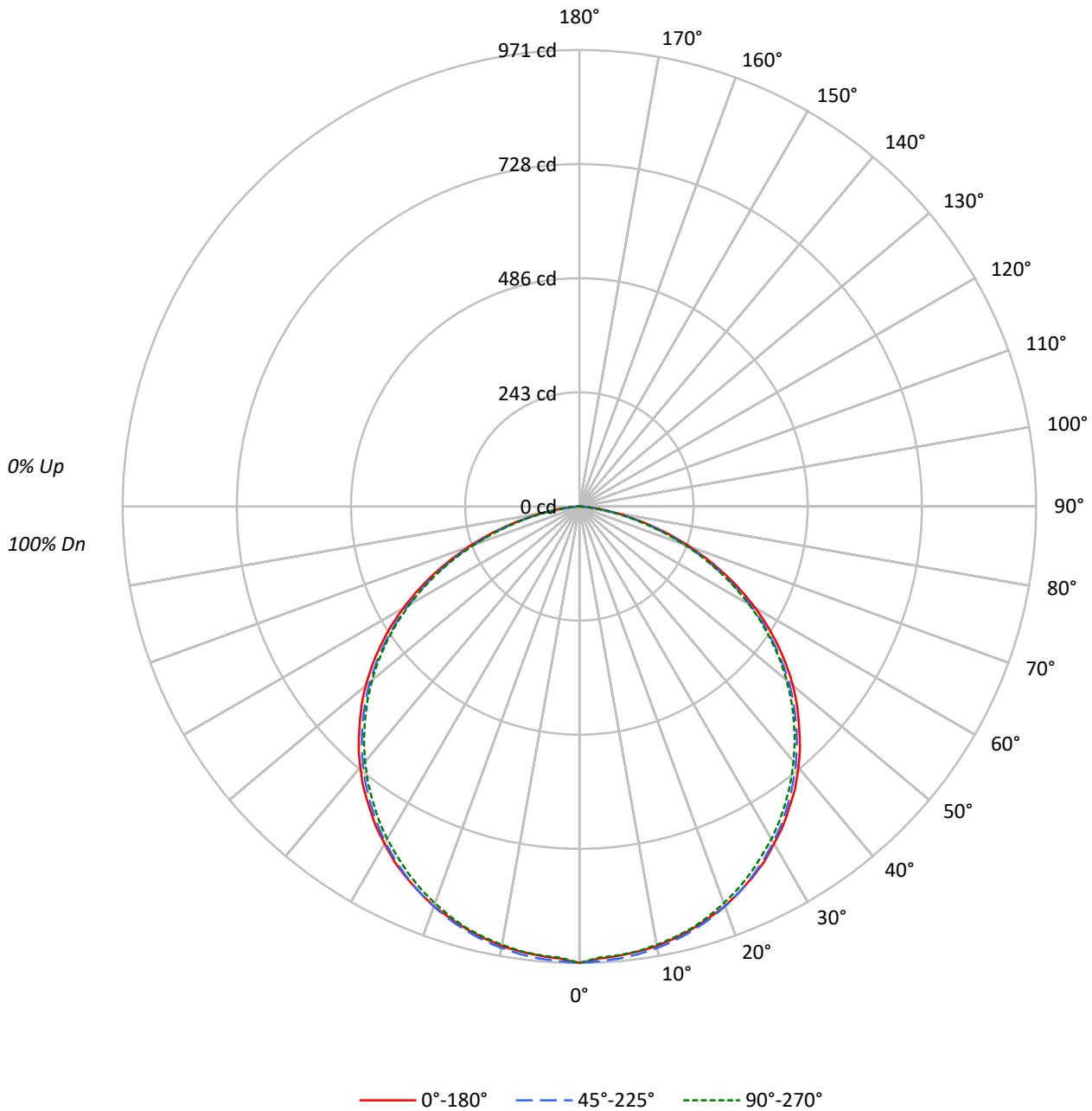
Test Method: LM-79-2019  
Report Number: P973270  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30HE-L850-CP187  
Description: 1\*4 FLR-2.0 5000 Lumen High Efficacy at 5000CCT & 80CRI Clear Polycarbonate (0.187" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2717.6 lumens  
Efficiency: N/A  
Efficacy: 121.3 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): 22.4  
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°	2613	2613	2613
5°	2592	2608	2589
10°	2595	2606	2587
15°	2591	2601	2585
20°	2591	2593	2572
25°	2585	2580	2556
30°	2574	2563	2538
35°	2560	2540	2515
40°	2545	2514	2489
45°	2514	2479	2453
50°	2482	2436	2408
55°	2419	2363	2340
60°	2325	2260	2241
65°	2178	2114	2091
70°	1964	1884	1869
75°	1646	1563	1546
80°	1196	1114	1083
85°	633	559	509

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2514 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.0	3.4
10°-20°	264.1	9.7
20°-30°	401.3	14.8
30°-40°	485.4	17.9
40°-50°	504.5	18.6
50°-60°	451.7	16.6
60°-70°	329.4	12.1
70°-80°	162.2	6.0
80°-90°	27.1	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°	757.4	27.9
0°-40°	1242.7	45.7
0°-60°	2198.9	80.9
0°-90°	2717.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2717.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	960	970	965	975	958	91
15°	930	938	934	942	928	263
25°	870	875	869	873	861	401
35°	779	781	773	776	766	488
45°	661	660	652	653	645	510
55°	516	511	504	502	499	460
65°	342	338	332	330	328	338
75°	158	156	150	149	149	169
85°	20	20	18	16	16	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	971.0	971.0	971.0	971.0	971.0
2.5°	962.5	973.4	968.2	977.8	960.5
5°	959.7	970.2	965.4	974.6	958.5
7.5°	954.9	965.8	960.5	969.4	954.1
10°	949.7	959.3	953.7	962.5	946.9
12.5°	940.4	950.1	944.9	952.9	938.4
15°	930.0	938.4	933.6	941.6	928.0
17.5°	917.9	926.0	920.7	928.0	914.3
20°	904.7	911.1	905.5	911.5	898.2
22.5°	888.2	894.2	888.2	892.2	880.6
25°	870.5	874.9	868.9	872.9	860.9
27.5°	851.6	854.0	848.0	851.2	838.8
30°	828.3	831.1	824.7	828.7	816.7
32.5°	805.8	807.4	800.2	803.4	792.5
35°	779.3	780.9	773.3	776.5	765.6
37.5°	754.0	753.6	745.5	747.5	738.3
40°	724.6	724.2	715.8	717.4	708.5
42.5°	694.5	692.9	684.8	685.6	677.6
45°	660.7	659.9	651.5	652.7	644.6
47.5°	628.2	625.8	617.3	617.7	610.9
50°	592.8	589.2	581.9	581.1	575.1
52.5°	555.0	551.0	543.0	542.2	537.7
55°	515.6	511.2	503.6	502.4	498.8
57.5°	475.0	469.4	463.4	461.0	458.2
60°	432.0	426.8	420.0	417.6	416.4
62.5°	387.4	382.2	377.0	374.6	373.0
65°	342.0	338.0	332.0	329.6	328.4
67.5°	295.8	292.2	286.6	283.7	283.3
70°	249.6	246.0	239.5	237.9	237.5
72.5°	203.4	200.1	194.1	192.5	192.5
75°	158.3	155.5	150.3	148.7	148.7
77.5°	115.7	113.3	109.3	107.3	107.3
80°	77.2	75.6	71.9	70.3	69.9
82.5°	44.6	43.8	40.6	39.0	39.8
85°	20.5	19.7	18.1	16.1	16.5
87.5°	5.2	4.8	3.6	2.8	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)