

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: P973195

Luminaire Tested: FLR2-14-30HE-L840-CP125

Issue Date: 3/13/2025

**Test Information**

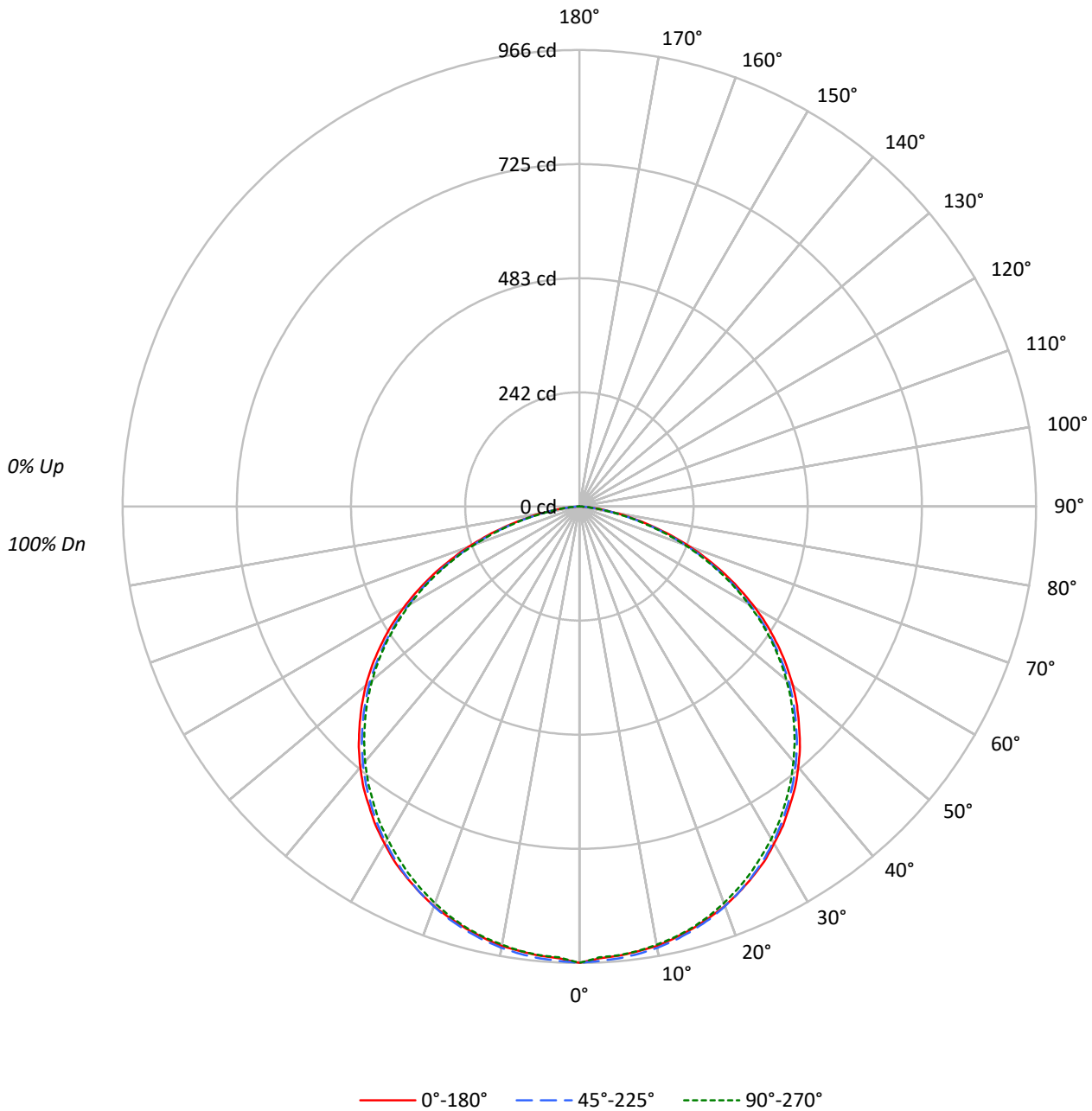
Test Method: LM-79-2019  
Report Number: P973195  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30HE-L840-CP125  
Description: 1\*4 FLR-2.0 4000 Lumen High Efficacy at 4000CCT & 80CRI Clear Polycarbonate (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2702.9 lumens  
Efficiency: N/A  
Efficacy: 120.7 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									
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	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°	2599	2599	2599
5°	2578	2593	2575
10°	2581	2592	2573
15°	2577	2587	2571
20°	2576	2579	2558
25°	2571	2566	2542
30°	2560	2549	2524
35°	2546	2526	2501
40°	2532	2501	2475
45°	2501	2466	2440
50°	2468	2423	2395
55°	2406	2350	2327
60°	2313	2248	2229
65°	2166	2103	2080
70°	1953	1874	1858
75°	1638	1554	1538
80°	1189	1108	1077
85°	630	556	506

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2501 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.5	3.4
10°-20°	262.7	9.7
20°-30°	399.1	14.8
30°-40°	482.7	17.9
40°-50°	501.7	18.6
50°-60°	449.2	16.6
60°-70°	327.6	12.1
70°-80°	161.3	6.0
80°-90°	27.0	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°	753.2	27.9
0°-40°	1236.0	45.7
0°-60°	2186.9	80.9
0°-90°	2702.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2702.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	954	965	960	969	953	91
15°	925	933	928	936	923	261
25°	866	870	864	868	856	399
35°	775	777	769	772	761	485
45°	657	656	648	649	641	507
55°	513	508	501	500	496	458
65°	340	336	330	328	327	336
75°	158	155	150	148	148	168
85°	20	20	18	16	16	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	965.7	965.7	965.7	965.7	965.7
2.5°	957.3	968.1	962.9	972.5	955.3
5°	954.5	964.9	960.1	969.3	953.3
7.5°	949.7	960.5	955.3	964.1	948.9
10°	944.5	954.1	948.5	957.3	941.7
12.5°	935.3	944.9	939.7	947.7	933.3
15°	924.9	933.3	928.5	936.5	922.9
17.5°	912.9	920.9	915.7	922.9	909.3
20°	899.7	906.1	900.5	906.5	893.3
22.5°	883.4	889.4	883.4	887.4	875.8
25°	865.8	870.2	864.2	868.2	856.2
27.5°	847.0	849.4	843.4	846.6	834.2
30°	823.8	826.6	820.2	824.2	812.2
32.5°	801.4	803.0	795.8	799.0	788.2
35°	775.0	776.6	769.0	772.2	761.4
37.5°	749.9	749.5	741.5	743.5	734.3
40°	720.7	720.3	711.9	713.5	704.7
42.5°	690.7	689.1	681.1	681.9	673.9
45°	657.1	656.3	647.9	649.1	641.1
47.5°	624.7	622.3	614.0	614.4	607.6
50°	589.6	586.0	578.8	578.0	572.0
52.5°	552.0	548.0	540.0	539.2	534.8
55°	512.8	508.4	500.8	499.6	496.0
57.5°	472.5	466.9	460.9	458.5	455.7
60°	429.7	424.5	417.7	415.3	414.1
62.5°	385.3	380.1	374.9	372.5	370.9
65°	340.2	336.2	330.2	327.8	326.6
67.5°	294.2	290.6	285.0	282.2	281.8
70°	248.2	244.6	238.2	236.6	236.2
72.5°	202.3	199.1	193.1	191.5	191.5
75°	157.5	154.7	149.5	147.9	147.9
77.5°	115.1	112.7	108.7	106.7	106.7
80°	76.7	75.1	71.5	69.9	69.5
82.5°	44.4	43.6	40.4	38.8	39.6
85°	20.4	19.6	18.0	16.0	16.4
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)