

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: P973280

Luminaire Tested: FLR2-14-30HE-L850-CP375

Issue Date: 3/13/2025

**Test Information**

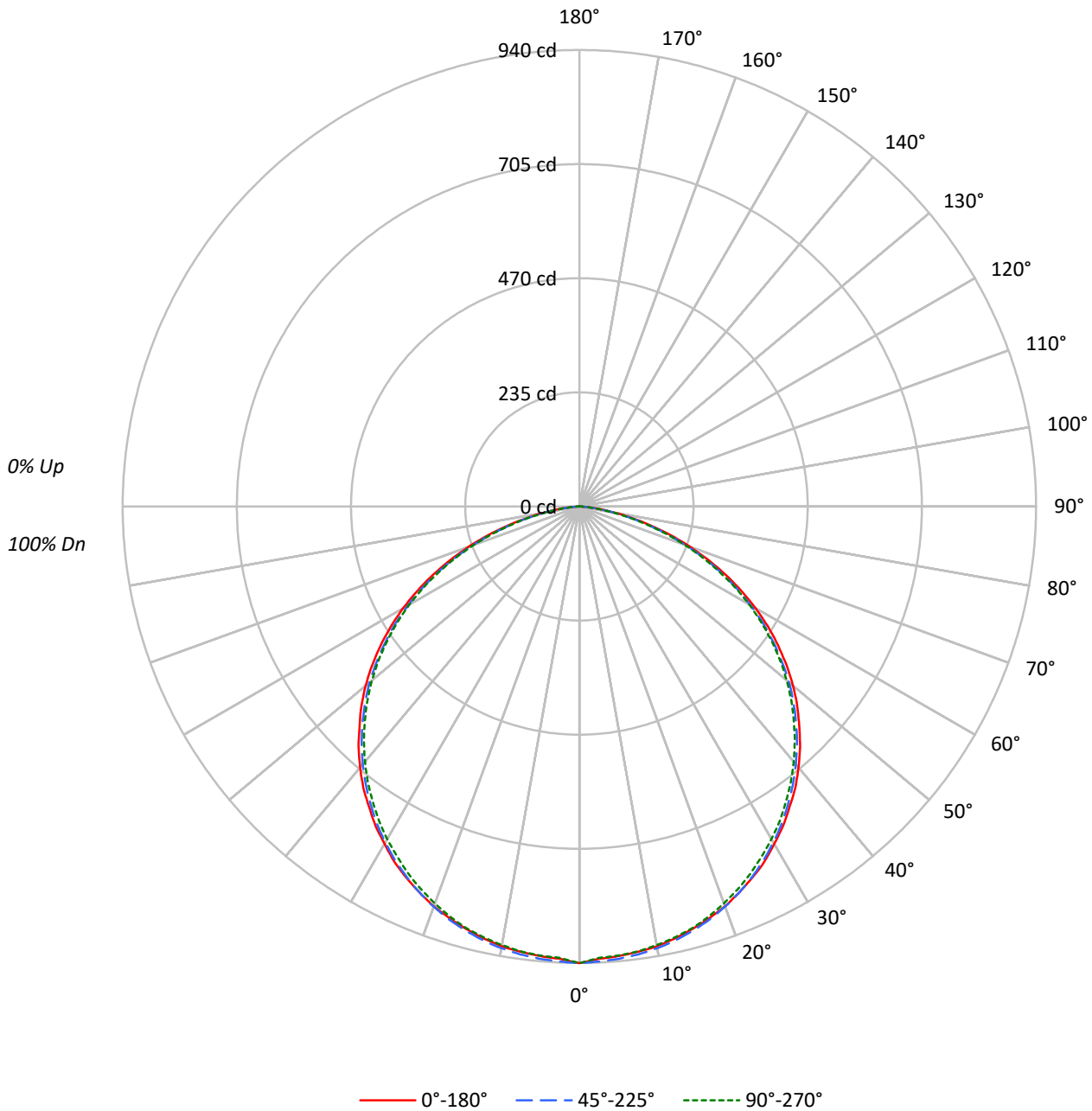
Test Method: LM-79-2019  
Report Number: P973280  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30HE-L850-CP375  
Description: 1\*4 FLR-2.0 5000 Lumen High Efficacy at 5000CCT & 80CRI Clear Polycarbonate (0.375" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2632.3 lumens  
Efficiency: N/A  
Efficacy: 117.5 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): 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									70									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°	2531	2531	2531
5°	2511	2526	2508
10°	2514	2524	2506
15°	2510	2519	2504
20°	2509	2512	2491
25°	2504	2499	2476
30°	2493	2482	2458
35°	2480	2461	2436
40°	2466	2435	2411
45°	2436	2401	2376
50°	2404	2360	2332
55°	2343	2289	2267
60°	2252	2189	2171
65°	2110	2047	2025
70°	1902	1825	1810
75°	1595	1514	1497
80°	1158	1080	1049
85°	614	540	494

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2436 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.1	3.4
10°-20°	255.8	9.7
20°-30°	388.7	14.8
30°-40°	470.2	17.9
40°-50°	488.6	18.6
50°-60°	437.5	16.6
60°-70°	319.1	12.1
70°-80°	157.1	6.0
80°-90°	26.3	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°	733.6	27.9
0°-40°	1203.7	45.7
0°-60°	2129.8	80.9
0°-90°	2632.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2632.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	930	940	935	944	928	88
15°	901	909	904	912	899	254
25°	843	848	842	846	834	389
35°	755	756	749	752	742	473
45°	640	639	631	632	624	494
55°	500	495	488	487	483	446
65°	331	327	322	319	318	327
75°	153	151	146	144	144	164
85°	20	19	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°	940.5	940.5	940.5	940.5	940.5
2.5°	932.3	942.8	937.8	947.1	930.4
5°	929.6	939.7	935.1	944.0	928.4
7.5°	924.9	935.4	930.4	939.0	924.2
10°	919.9	929.2	923.8	932.3	917.2
12.5°	910.9	920.3	915.2	923.0	909.0
15°	900.8	909.0	904.3	912.1	898.9
17.5°	889.1	896.9	891.8	898.9	885.6
20°	876.3	882.5	877.1	882.9	870.0
22.5°	860.3	866.2	860.3	864.2	852.9
25°	843.2	847.5	841.6	845.5	833.8
27.5°	824.9	827.2	821.4	824.5	812.4
30°	802.3	805.0	798.8	802.7	791.0
32.5°	780.5	782.1	775.1	778.2	767.7
35°	754.8	756.4	749.0	752.1	741.6
37.5°	730.3	729.9	722.1	724.1	715.1
40°	701.9	701.5	693.3	694.9	686.3
42.5°	672.7	671.1	663.3	664.1	656.3
45°	640.0	639.2	631.0	632.2	624.4
47.5°	608.4	606.1	597.9	598.3	591.7
50°	574.2	570.7	563.7	562.9	557.1
52.5°	537.6	533.7	525.9	525.1	520.9
55°	499.5	495.2	487.8	486.6	483.1
57.5°	460.1	454.7	448.8	446.5	443.8
60°	418.5	413.4	406.8	404.5	403.3
62.5°	375.3	370.2	365.1	362.8	361.3
65°	331.3	327.4	321.5	319.2	318.0
67.5°	286.5	283.0	277.6	274.8	274.4
70°	241.7	238.2	232.0	230.5	230.1
72.5°	197.0	193.9	188.0	186.5	186.5
75°	153.4	150.7	145.6	144.0	144.0
77.5°	112.1	109.8	105.9	103.9	103.9
80°	74.7	73.2	69.7	68.1	67.7
82.5°	43.2	42.4	39.3	37.8	38.5
85°	19.9	19.1	17.5	15.6	16.0
87.5°	5.1	4.7	3.5	2.7	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)