

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: P973120

Luminaire Tested: FLR2-14-30HE-L835-CP080

Issue Date: 3/13/2025

**Test Information**

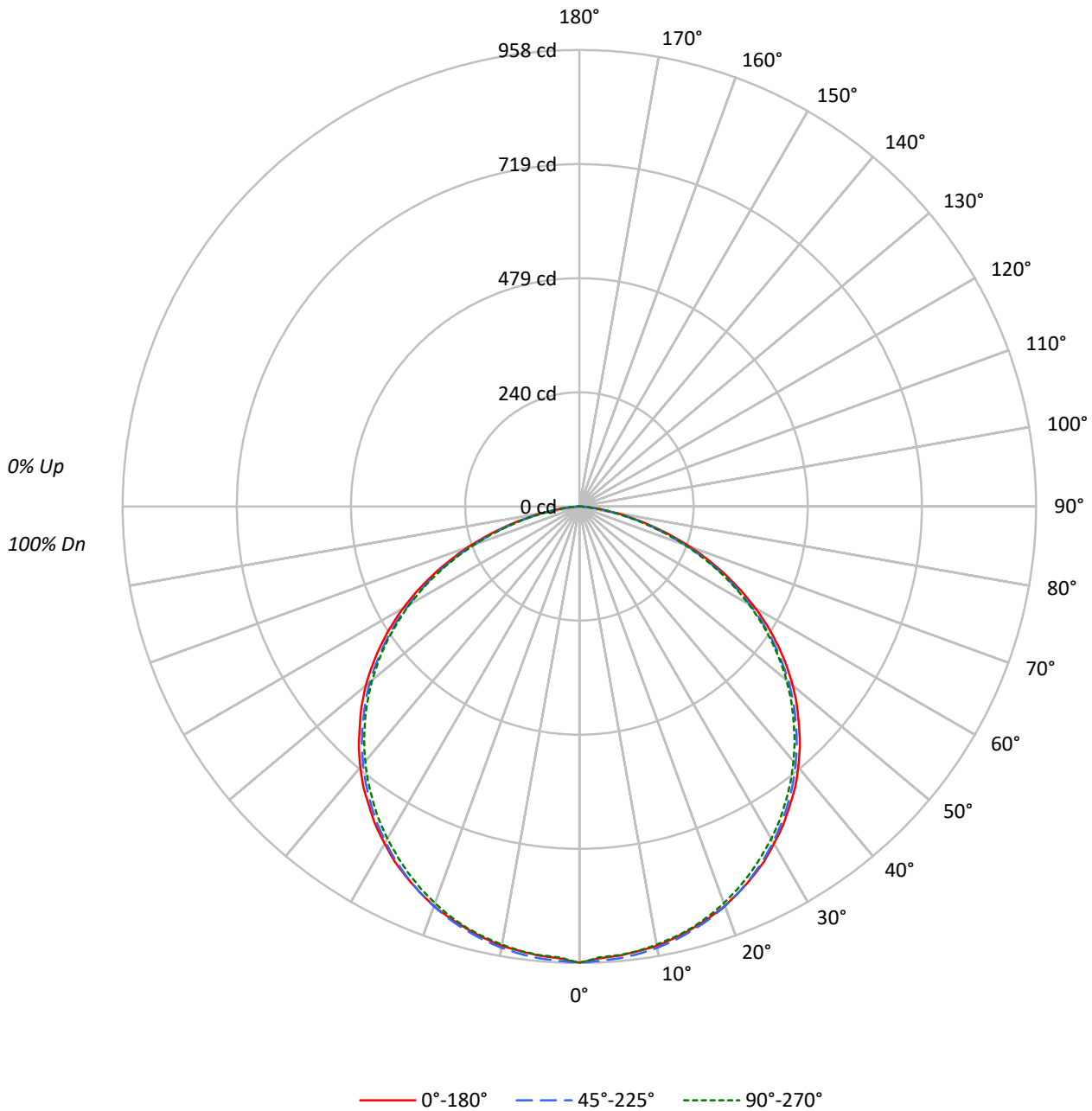
Test Method: LM-79-2019  
Report Number: P973120  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30HE-L835-CP080  
Description: 1\*4 FLR-2.0 3500 Lumen High Efficacy at 3500CCT & 80CRI Clear Polycarbonate (0.080" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2679.9 lumens  
Efficiency: N/A  
Efficacy: 119.6 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	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°	2577	2577	2577
5°	2556	2571	2553
10°	2559	2570	2551
15°	2555	2565	2549
20°	2555	2557	2537
25°	2549	2544	2521
30°	2538	2527	2502
35°	2525	2505	2480
40°	2510	2479	2454
45°	2479	2445	2419
50°	2447	2403	2374
55°	2386	2330	2307
60°	2293	2229	2210
65°	2148	2085	2062
70°	1936	1858	1843
75°	1623	1541	1524
80°	1179	1099	1069
85°	624	550	500

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2479 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.7	3.4
10°-20°	260.5	9.7
20°-30°	395.7	14.8
30°-40°	478.6	17.9
40°-50°	497.4	18.6
50°-60°	445.4	16.6
60°-70°	324.9	12.1
70°-80°	160.0	6.0
80°-90°	26.8	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°	746.8	27.9
0°-40°	1225.5	45.7
0°-60°	2168.3	80.9
0°-90°	2679.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2679.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	946	957	952	961	945	90
15°	917	925	921	929	915	259
25°	858	863	857	861	849	396
35°	768	770	762	766	755	481
45°	652	651	642	644	636	503
55°	508	504	497	495	492	454
65°	337	333	327	325	324	333
75°	156	153	148	147	147	166
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°	957.5	957.5	957.5	957.5	957.5
2.5°	949.2	959.9	954.7	964.2	947.2
5°	946.4	956.7	951.9	961.1	945.2
7.5°	941.6	952.3	947.2	955.9	940.9
10°	936.5	946.0	940.5	949.2	933.7
12.5°	927.4	936.9	931.7	939.7	925.4
15°	917.1	925.4	920.6	928.6	915.1
17.5°	905.2	913.1	908.0	915.1	901.6
20°	892.1	898.4	892.9	898.8	885.8
22.5°	875.9	881.8	875.9	879.8	868.3
25°	858.4	862.8	856.8	860.8	848.9
27.5°	839.8	842.2	836.2	839.4	827.1
30°	816.8	819.6	813.2	817.2	805.3
32.5°	794.6	796.2	789.1	792.2	781.5
35°	768.5	770.0	762.5	765.7	755.0
37.5°	743.5	743.1	735.2	737.1	728.0
40°	714.6	714.2	705.8	707.4	698.7
42.5°	684.8	683.2	675.3	676.1	668.2
45°	651.5	650.7	642.4	643.6	635.7
47.5°	619.4	617.1	608.7	609.1	602.4
50°	584.6	581.0	573.9	573.1	567.1
52.5°	547.3	543.3	535.4	534.6	530.3
55°	508.5	504.1	496.6	495.4	491.8
57.5°	468.4	462.9	457.0	454.6	451.8
60°	426.0	420.9	414.1	411.8	410.6
62.5°	382.0	376.9	371.7	369.4	367.8
65°	337.3	333.3	327.4	325.0	323.8
67.5°	291.7	288.1	282.6	279.8	279.4
70°	246.1	242.5	236.2	234.6	234.2
72.5°	200.5	197.4	191.4	189.8	189.8
75°	156.1	153.4	148.2	146.6	146.6
77.5°	114.1	111.8	107.8	105.8	105.8
80°	76.1	74.5	70.9	69.4	69.0
82.5°	44.0	43.2	40.0	38.4	39.2
85°	20.2	19.4	17.8	15.9	16.2
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)