

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: P973125

Luminaire Tested: FLR2-14-30HE-L835-CP125

Issue Date: 3/13/2025

**Test Information**

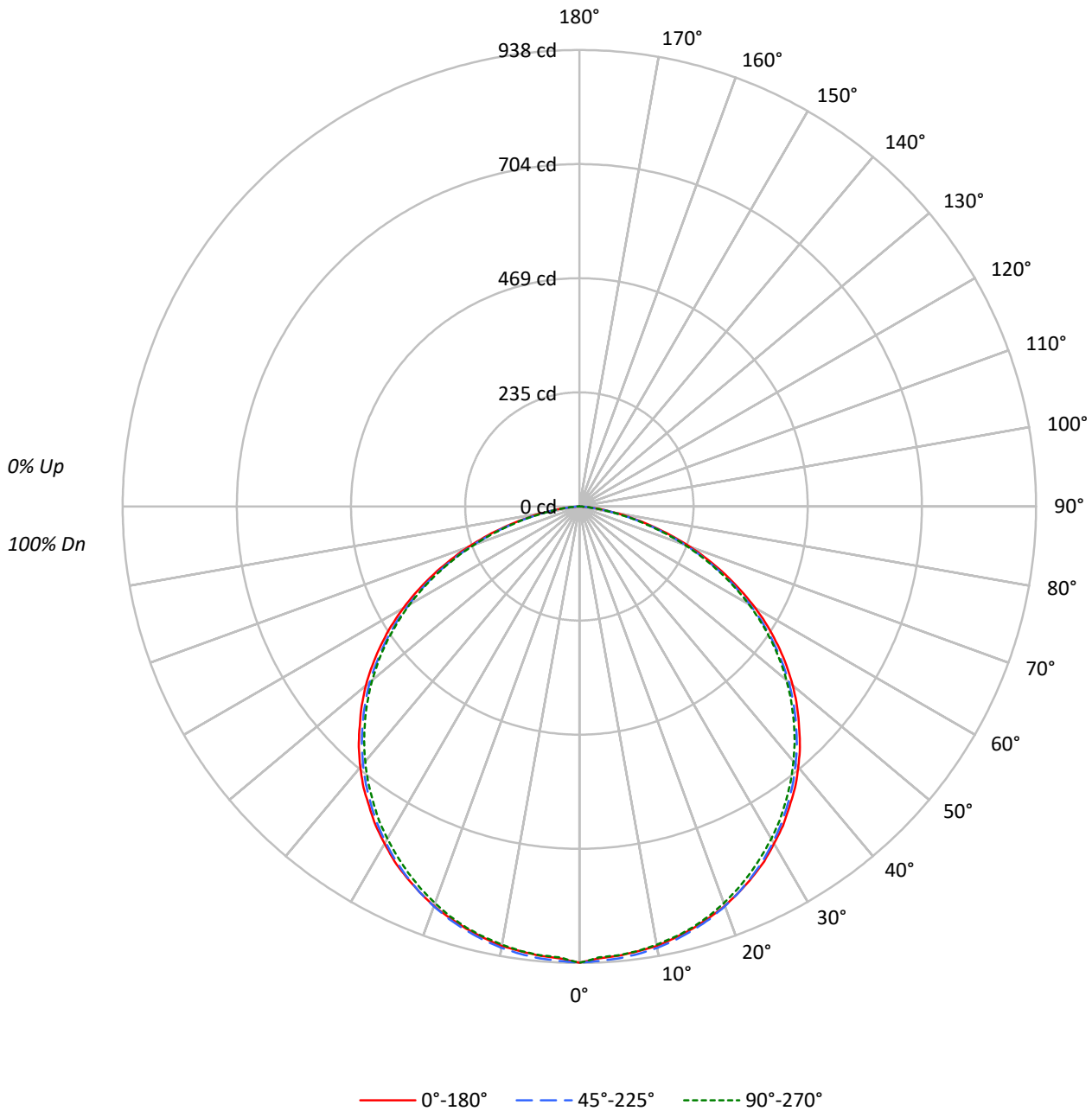
Test Method: LM-79-2019  
Report Number: P973125  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30HE-L835-CP125  
Description: 1\*4 FLR-2.0 3500 Lumen High Efficacy at 3500CCT & 80CRI Clear Polycarbonate (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2624.1 lumens  
Efficiency: N/A  
Efficacy: 117.1 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	2523	2523	2523
5°	2503	2518	2500
10°	2506	2516	2498
15°	2502	2511	2496
20°	2501	2504	2484
25°	2496	2491	2468
30°	2485	2474	2450
35°	2472	2453	2429
40°	2458	2428	2403
45°	2428	2394	2369
50°	2396	2352	2325
55°	2336	2281	2259
60°	2245	2182	2164
65°	2103	2041	2019
70°	1896	1820	1804
75°	1590	1509	1493
80°	1155	1077	1046
85°	611	540	491

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2428 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.8	3.4
10°-20°	255.0	9.7
20°-30°	387.4	14.8
30°-40°	468.7	17.9
40°-50°	487.1	18.6
50°-60°	436.1	16.6
60°-70°	318.1	12.1
70°-80°	156.6	6.0
80°-90°	26.2	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°	731.3	27.9
0°-40°	1200.0	45.7
0°-60°	2123.2	80.9
0°-90°	2624.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2624.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	927	937	932	941	926	88
15°	898	906	902	909	896	254
25°	841	845	839	843	831	387
35°	752	754	747	750	739	471
45°	638	637	629	630	622	493
55°	498	494	486	485	482	444
65°	330	326	320	318	317	326
75°	153	150	145	144	144	163
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°	937.6	937.6	937.6	937.6	937.6
2.5°	929.4	939.9	934.9	944.2	927.5
5°	926.7	936.8	932.1	941.1	925.5
7.5°	922.0	932.5	927.5	936.0	921.3
10°	917.0	926.3	920.9	929.4	914.3
12.5°	908.1	917.4	912.3	920.1	906.1
15°	898.0	906.1	901.5	909.2	896.0
17.5°	886.3	894.1	889.1	896.0	882.9
20°	873.5	879.7	874.3	880.1	867.3
22.5°	857.6	863.4	857.6	861.5	850.3
25°	840.6	844.8	839.0	842.9	831.2
27.5°	822.3	824.6	818.8	821.9	809.9
30°	799.8	802.5	796.3	800.2	788.6
32.5°	778.1	779.6	772.6	775.7	765.3
35°	752.5	754.0	746.6	749.7	739.3
37.5°	728.0	727.6	719.9	721.8	712.9
40°	699.7	699.3	691.1	692.7	684.2
42.5°	670.6	669.0	661.3	662.0	654.3
45°	638.0	637.2	629.1	630.2	622.5
47.5°	606.5	604.2	596.1	596.5	589.9
50°	572.4	568.9	561.9	561.1	555.3
52.5°	535.9	532.0	524.3	523.5	519.2
55°	497.9	493.6	486.2	485.1	481.6
57.5°	458.7	453.3	447.4	445.1	442.4
60°	417.2	412.1	405.5	403.2	402.0
62.5°	374.1	369.1	364.0	361.7	360.1
65°	330.2	326.4	320.5	318.2	317.1
67.5°	285.6	282.1	276.7	274.0	273.6
70°	241.0	237.5	231.3	229.7	229.3
72.5°	196.4	193.3	187.4	185.9	185.9
75°	152.9	150.2	145.1	143.6	143.6
77.5°	111.8	109.4	105.6	103.6	103.6
80°	74.5	73.0	69.5	67.9	67.5
82.5°	43.1	42.3	39.2	37.6	38.4
85°	19.8	19.0	17.5	15.5	15.9
87.5°	5.0	4.7	3.5	2.7	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)