

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: P973065

Luminaire Tested: FLR2-14-30HE-L830-CP250

Issue Date: 3/13/2025

**Test Information**

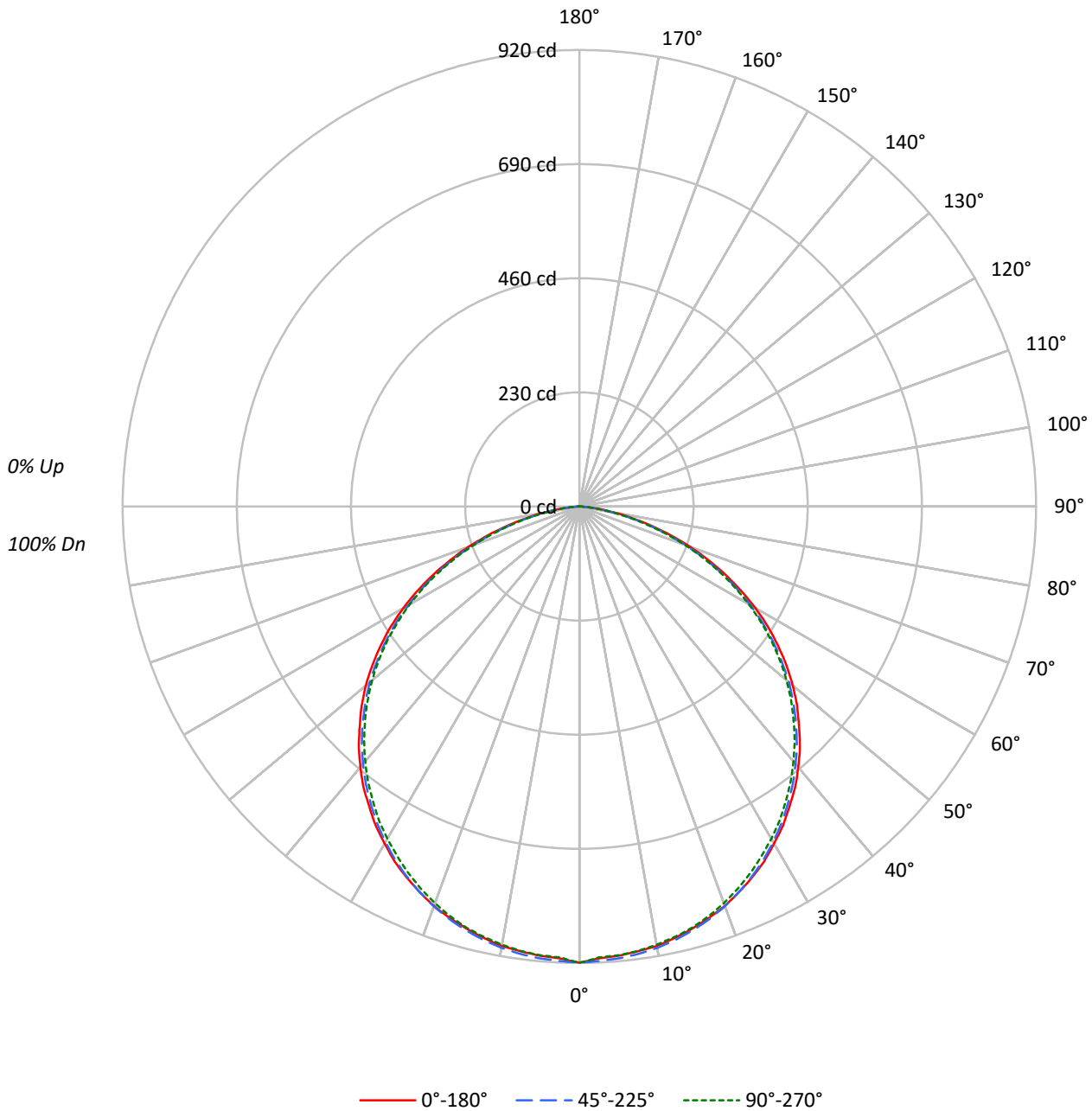
Test Method: LM-79-2019  
Report Number: P973065  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30HE-L830-CP250  
Description: 1\*4 FLR-2.0 3000 Lumen High Efficacy at 3000CCT & 80CRI Clear Polycarbonate (0.250" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2573.7 lumens  
Efficiency: N/A  
Efficacy: 114.9 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°	2475	2475	2475
5°	2455	2469	2452
10°	2458	2468	2450
15°	2454	2463	2448
20°	2454	2456	2436
25°	2448	2443	2421
30°	2437	2427	2403
35°	2424	2406	2382
40°	2410	2381	2357
45°	2381	2348	2323
50°	2350	2307	2280
55°	2291	2237	2216
60°	2202	2140	2122
65°	2062	2002	1980
70°	1860	1784	1769
75°	1560	1480	1464
80°	1133	1055	1026
85°	599	528	482

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2381 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.1	3.4
10°-20°	250.1	9.7
20°-30°	380.0	14.8
30°-40°	459.7	17.9
40°-50°	477.7	18.6
50°-60°	427.7	16.6
60°-70°	312.0	12.1
70°-80°	153.6	6.0
80°-90°	25.7	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°	717.2	27.9
0°-40°	1176.9	45.7
0°-60°	2082.4	80.9
0°-90°	2573.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2573.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	909	919	914	923	908	86
15°	881	889	884	892	879	249
25°	824	829	823	827	815	380
35°	738	740	732	735	725	462
45°	626	625	617	618	610	483
55°	488	484	477	476	472	436
65°	324	320	314	312	311	320
75°	150	147	142	141	141	160
85°	19	19	17	15	16	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	919.6	919.6	919.6	919.6	919.6
2.5°	911.6	921.8	916.9	926.0	909.7
5°	908.9	918.8	914.2	923.0	907.8
7.5°	904.3	914.6	909.7	918.0	903.6
10°	899.4	908.5	903.2	911.6	896.7
12.5°	890.6	899.8	894.8	902.4	888.7
15°	880.7	888.7	884.2	891.8	878.8
17.5°	869.3	876.9	872.0	878.8	865.9
20°	856.8	862.8	857.5	863.2	850.7
22.5°	841.1	846.9	841.1	845.0	833.9
25°	824.4	828.6	822.9	826.7	815.3
27.5°	806.5	808.8	803.1	806.1	794.3
30°	784.4	787.1	781.0	784.8	773.4
32.5°	763.1	764.6	757.8	760.8	750.6
35°	738.0	739.5	732.3	735.3	725.1
37.5°	714.0	713.6	706.0	707.9	699.2
40°	686.2	685.9	677.9	679.4	671.0
42.5°	657.7	656.2	648.6	649.3	641.7
45°	625.7	625.0	617.0	618.1	610.5
47.5°	594.9	592.6	584.6	585.0	578.5
50°	561.4	558.0	551.1	550.4	544.7
52.5°	525.6	521.8	514.2	513.4	509.3
55°	488.3	484.1	476.9	475.8	472.3
57.5°	449.9	444.6	438.8	436.6	433.9
60°	409.2	404.2	397.7	395.5	394.3
62.5°	366.9	362.0	357.0	354.7	353.2
65°	323.9	320.1	314.4	312.1	311.0
67.5°	280.1	276.7	271.4	268.7	268.3
70°	236.4	232.9	226.8	225.3	224.9
72.5°	192.6	189.5	183.8	182.3	182.3
75°	150.0	147.3	142.3	140.8	140.8
77.5°	109.6	107.3	103.5	101.6	101.6
80°	73.1	71.6	68.1	66.6	66.2
82.5°	42.2	41.5	38.4	36.9	37.7
85°	19.4	18.6	17.1	15.2	15.6
87.5°	4.9	4.6	3.4	2.7	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)