

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: P973080

Luminaire Tested: FLR2-14-30HE-L830-CA125

Issue Date: 3/13/2025

**Test Information**

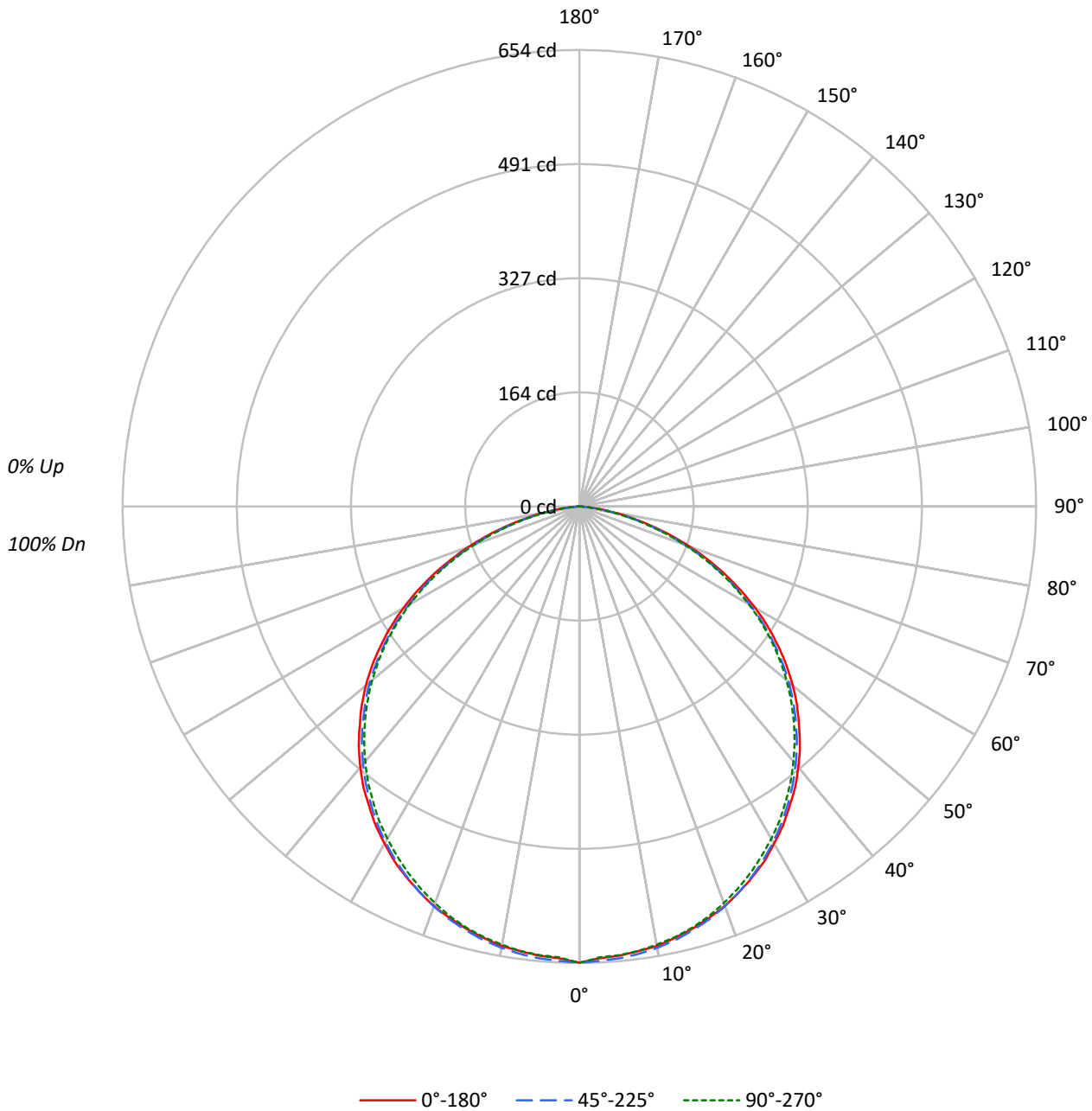
Test Method: LM-79-2019  
Report Number: P973080  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30HE-L830-CA125  
Description: 1\*4 FLR-2.0 3000 Lumen High Efficacy at 3000CCT & 80CRI Clear Aryalic (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1829.7 lumens  
Efficiency: N/A  
Efficacy: 81.7 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				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	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°	1759	1759	1759
5°	1745	1756	1743
10°	1747	1755	1742
15°	1744	1751	1741
20°	1744	1746	1732
25°	1740	1737	1721
30°	1733	1725	1708
35°	1723	1710	1693
40°	1714	1693	1676
45°	1693	1669	1652
50°	1671	1640	1621
55°	1629	1590	1575
60°	1566	1522	1509
65°	1466	1423	1408
70°	1322	1269	1258
75°	1108	1052	1041
80°	806	750	730
85°	426	377	343

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1693 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.9	3.4
10°-20°	177.8	9.7
20°-30°	270.2	14.8
30°-40°	326.8	17.9
40°-50°	339.6	18.6
50°-60°	304.1	16.6
60°-70°	221.8	12.1
70°-80°	109.2	6.0
80°-90°	18.3	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°	509.9	27.9
0°-40°	836.7	45.7
0°-60°	1480.4	80.9
0°-90°	1829.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1829.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	654	654	654	654	654	
5°	646	653	650	656	645	61
15°	626	632	629	634	625	177
25°	586	589	585	588	580	270
35°	525	526	521	523	516	329
45°	445	444	439	439	434	343
55°	347	344	339	338	336	310
65°	230	228	224	222	221	227
75°	107	105	101	100	100	114
85°	14	13	12	11	11	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	653.7	653.7	653.7	653.7	653.7
2.5°	648.0	655.3	651.8	658.3	646.7
5°	646.1	653.2	649.9	656.2	645.3
7.5°	642.9	650.2	646.7	652.6	642.4
10°	639.4	645.9	642.1	648.0	637.5
12.5°	633.2	639.6	636.1	641.5	631.8
15°	626.1	631.8	628.6	634.0	624.8
17.5°	618.0	623.4	619.9	624.8	615.6
20°	609.1	613.4	609.6	613.7	604.7
22.5°	598.0	602.0	598.0	600.7	592.8
25°	586.1	589.0	585.0	587.7	579.6
27.5°	573.4	575.0	570.9	573.1	564.7
30°	557.7	559.6	555.2	557.9	549.8
32.5°	542.5	543.6	538.7	540.9	533.6
35°	524.6	525.7	520.6	522.8	515.5
37.5°	507.6	507.3	501.9	503.3	497.1
40°	487.9	487.6	481.9	483.0	477.0
42.5°	467.6	466.5	461.1	461.6	456.2
45°	444.8	444.3	438.6	439.4	434.0
47.5°	422.9	421.3	415.6	415.9	411.3
50°	399.1	396.7	391.8	391.3	387.2
52.5°	373.7	371.0	365.6	365.0	362.0
55°	347.2	344.2	339.0	338.2	335.8
57.5°	319.8	316.0	312.0	310.4	308.5
60°	290.9	287.4	282.8	281.1	280.3
62.5°	260.8	257.3	253.8	252.2	251.1
65°	230.3	227.6	223.5	221.9	221.1
67.5°	199.1	196.7	192.9	191.0	190.8
70°	168.0	165.6	161.3	160.2	159.9
72.5°	136.9	134.7	130.7	129.6	129.6
75°	106.6	104.7	101.2	100.1	100.1
77.5°	77.9	76.3	73.6	72.2	72.2
80°	52.0	50.9	48.4	47.4	47.1
82.5°	30.0	29.5	27.3	26.2	26.8
85°	13.8	13.3	12.2	10.8	11.1
87.5°	3.5	3.2	2.4	1.9	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)