

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: P973070

Luminaire Tested: FLR2-14-30HE-L830-CP375

Issue Date: 3/13/2025

**Test Information**

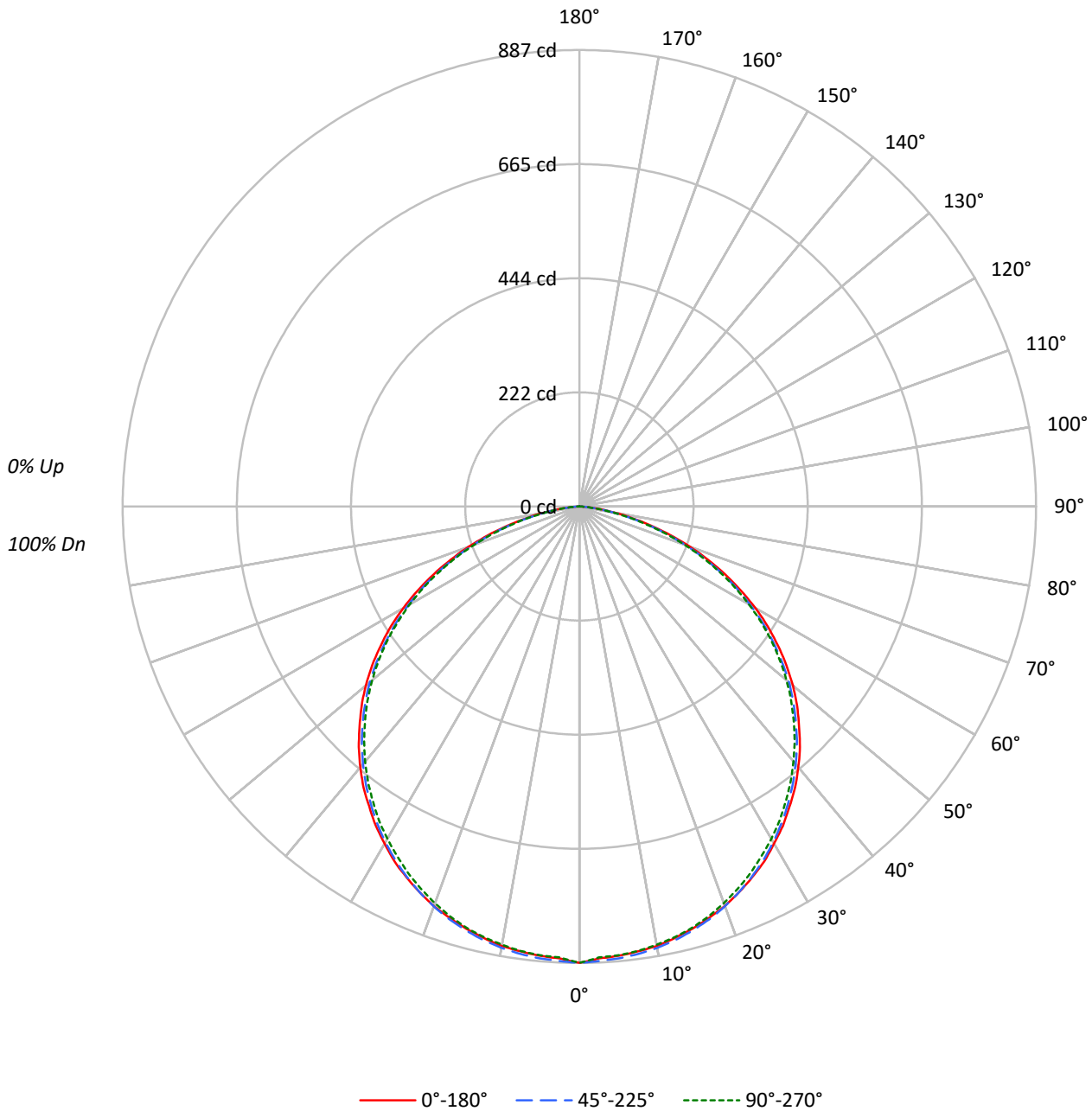
Test Method: LM-79-2019  
Report Number: P973070  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30HE-L830-CP375  
Description: 1\*4 FLR-2.0 3000 Lumen High Efficacy at 3000CCT & 80CRI Clear Polycarbonate (0.375" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2481.9 lumens  
Efficiency: N/A  
Efficacy: 110.8 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									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	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°	2386	2386	2386
5°	2368	2381	2365
10°	2370	2380	2363
15°	2366	2375	2361
20°	2366	2368	2349
25°	2360	2356	2334
30°	2351	2340	2317
35°	2338	2320	2297
40°	2325	2296	2273
45°	2296	2264	2240
50°	2267	2225	2199
55°	2209	2158	2137
60°	2124	2065	2047
65°	1989	1931	1910
70°	1793	1721	1707
75°	1503	1428	1412
80°	1093	1018	990
85°	577	509	463

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2296 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.0	3.4
10°-20°	241.2	9.7
20°-30°	366.5	14.8
30°-40°	443.3	17.9
40°-50°	460.7	18.6
50°-60°	412.5	16.6
60°-70°	300.9	12.1
70°-80°	148.1	6.0
80°-90°	24.8	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°	691.7	27.9
0°-40°	1135.0	45.7
0°-60°	2008.2	80.9
0°-90°	2481.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2481.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	876	886	882	890	875	83
15°	849	857	853	860	848	240
25°	795	799	794	797	786	367
35°	712	713	706	709	699	446
45°	603	603	595	596	589	466
55°	471	467	460	459	456	420
65°	312	309	303	301	300	309
75°	145	142	137	136	136	154
85°	19	18	16	15	15	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	886.8	886.8	886.8	<i>886.8</i>	886.8
2.5°	<i>879.1</i>	<i>889.0</i>	<i>884.2</i>	<i>893.0</i>	<i>877.2</i>
5°	876.5	886.0	881.6	<i>890.1</i>	875.4
7.5°	872.1	882.0	877.2	<i>885.3</i>	871.3
10°	867.3	876.1	871.0	<i>879.1</i>	864.7
12.5°	858.9	867.7	862.9	<i>870.2</i>	857.0
15°	849.3	857.0	852.6	<i>860.0</i>	847.5
17.5°	838.3	845.7	840.9	<i>847.5</i>	835.0
20°	826.2	832.1	826.9	<i>832.4</i>	820.3
22.5°	811.2	816.7	811.2	<i>814.8</i>	804.2
25°	795.0	799.0	793.5	<i>797.2</i>	786.2
27.5°	777.8	780.0	774.5	<i>777.4</i>	766.0
30°	756.5	759.0	753.2	<i>756.8</i>	745.8
32.5°	735.9	737.4	730.8	<i>733.7</i>	723.8
35°	711.7	713.2	706.2	<i>709.1</i>	699.2
37.5°	688.6	688.2	680.9	<i>682.7</i>	674.2
40°	661.8	661.4	653.7	<i>655.2</i>	647.1
42.5°	634.2	632.8	625.4	<i>626.2</i>	618.8
45°	603.4	602.7	595.0	<i>596.1</i>	588.7
47.5°	573.7	571.5	563.8	<i>564.1</i>	557.9
50°	541.4	538.1	531.5	<i>530.7</i>	525.2
52.5°	506.9	503.2	495.9	<i>495.1</i>	491.1
55°	470.9	466.9	459.9	<i>458.8</i>	455.5
57.5°	433.8	428.7	423.2	<i>421.0</i>	418.4
60°	394.6	389.8	383.6	<i>381.4</i>	380.3
62.5°	353.8	349.1	344.3	<i>342.1</i>	340.6
65°	312.3	308.7	303.2	<i>301.0</i>	299.9
67.5°	270.1	266.8	261.7	<i>259.1</i>	258.8
70°	227.9	224.6	218.8	<i>217.3</i>	216.9
72.5°	185.7	182.8	177.3	<i>175.8</i>	175.8
75°	144.6	142.0	137.3	<i>135.8</i>	135.8
77.5°	105.7	103.5	99.8	<i>98.0</i>	98.0
80°	70.5	69.0	65.7	<i>64.2</i>	63.9
82.5°	40.7	40.0	37.1	<i>35.6</i>	36.3
85°	18.7	18.0	16.5	<i>14.7</i>	15.0
87.5°	4.8	4.4	3.3	<i>2.6</i>	3.3
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)