

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: P973333

Luminaire Tested: FLR2-14-30-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973333
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: FLR2-14-30-L830-CP125
Description: 1*4 FLR-2.0 3000 LUMEN at 3000CCT & 80CRI Clear Polycarbonate (0.125" thickness)

Light Source: 3000k CCT, 80 CRI LEDS
Ballast/Driver: -

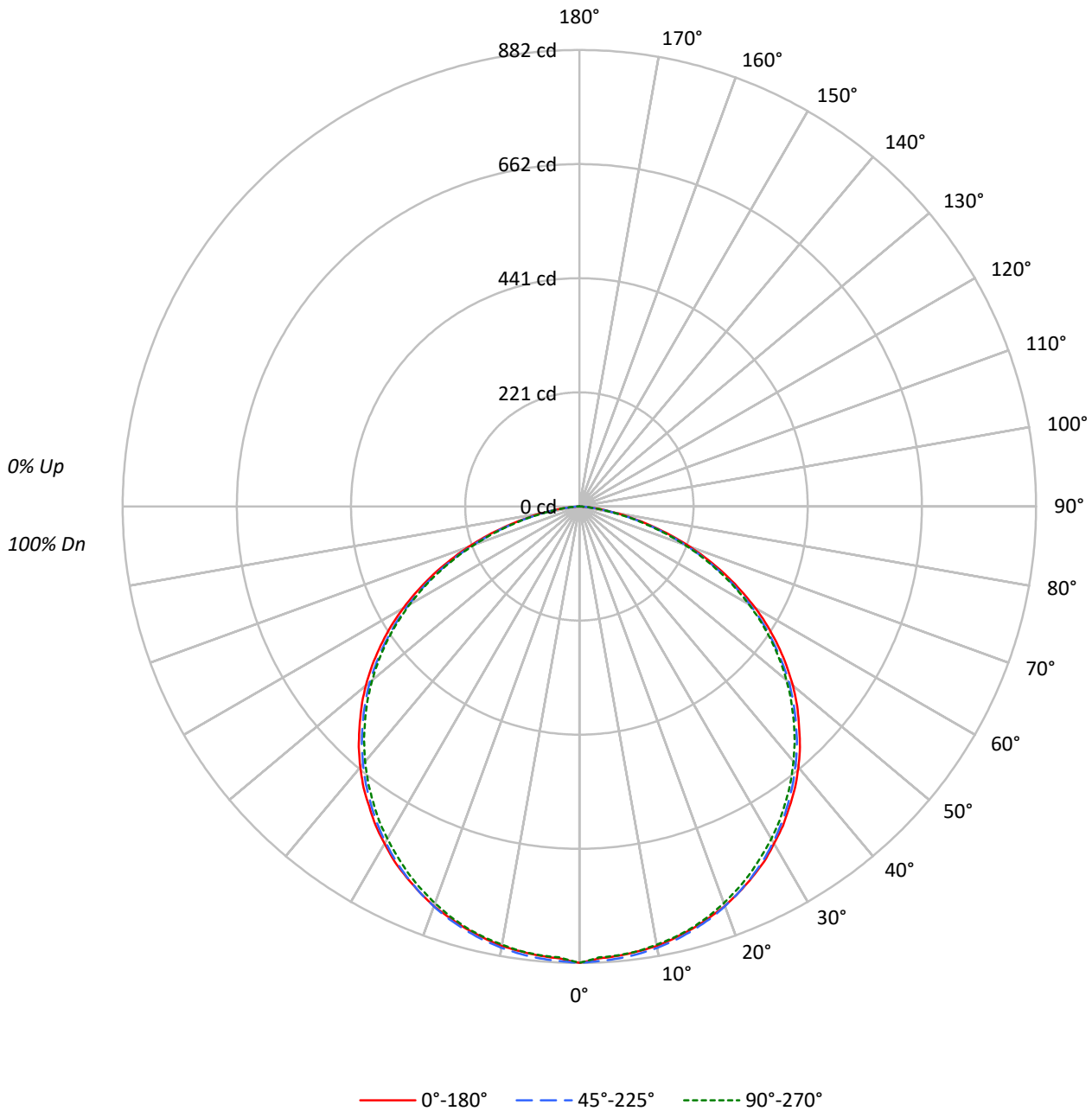
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2468.0 lumens
Efficiency: N/A
Efficacy: 103.3 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): 23.9
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	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°	2373	2373	2373
5°	2354	2368	2351
10°	2357	2367	2350
15°	2353	2362	2348
20°	2353	2355	2336
25°	2347	2343	2321
30°	2337	2327	2304
35°	2325	2307	2284
40°	2312	2283	2261
45°	2283	2251	2228
50°	2254	2213	2187
55°	2197	2145	2125
60°	2112	2053	2035
65°	1978	1920	1899
70°	1784	1711	1697
75°	1495	1419	1404
80°	1086	1012	984
85°	574	506	463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2283 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	3.4
10°-20°	239.9	9.7
20°-30°	364.4	14.8
30°-40°	440.8	17.9
40°-50°	458.1	18.6
50°-60°	410.2	16.6
60°-70°	299.2	12.1
70°-80°	147.3	6.0
80°-90°	24.6	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°	687.8	27.9
0°-40°	1128.6	45.7
0°-60°	1996.9	80.9
0°-90°	2468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	872	881	877	885	870	83
15°	845	852	848	855	843	239
25°	790	795	789	793	782	364
35°	708	709	702	705	695	443
45°	600	599	592	593	585	463
55°	468	464	457	456	453	418
65°	311	307	302	299	298	307
75°	144	141	136	135	135	153
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°	881.8	881.8	881.8	<i>881.8</i>	881.8
2.5°	<i>874.1</i>	<i>884.0</i>	<i>879.2</i>	<i>888.0</i>	<i>872.3</i>
5°	871.6	881.1	876.7	<i>885.1</i>	870.5
7.5°	867.2	877.0	872.3	<i>880.3</i>	866.5
10°	862.4	871.2	866.1	<i>874.1</i>	859.9
12.5°	854.0	862.8	858.1	<i>865.4</i>	852.2
15°	844.6	852.2	847.8	<i>855.1</i>	842.7
17.5°	833.6	840.9	836.2	<i>842.7</i>	830.3
20°	821.6	827.4	822.3	<i>827.8</i>	815.7
22.5°	806.6	812.1	806.6	<i>810.2</i>	799.7
25°	790.5	794.6	789.1	<i>792.7</i>	781.8
27.5°	773.4	775.6	770.1	<i>773.0</i>	761.7
30°	752.2	754.8	748.9	<i>752.6</i>	741.6
32.5°	731.8	733.2	726.7	<i>729.6</i>	719.7
35°	707.7	709.2	702.2	<i>705.1</i>	695.3
37.5°	684.7	684.3	677.0	<i>678.9</i>	670.5
40°	658.1	657.7	650.0	<i>651.5</i>	643.5
42.5°	630.7	629.2	621.9	<i>622.7</i>	615.4
45°	600.0	599.3	591.6	<i>592.7</i>	585.4
47.5°	570.5	568.3	560.6	<i>561.0</i>	554.8
50°	538.3	535.1	528.5	<i>527.8</i>	522.3
52.5°	504.0	500.4	493.1	<i>492.4</i>	488.3
55°	468.3	464.3	457.3	<i>456.2</i>	452.9
57.5°	431.4	426.3	420.8	<i>418.6</i>	416.1
60°	392.4	387.6	381.4	<i>379.2</i>	378.1
62.5°	351.8	347.1	342.3	<i>340.2</i>	338.7
65°	310.6	306.9	301.5	<i>299.3</i>	298.2
67.5°	268.6	265.3	260.2	<i>257.7</i>	257.3
70°	226.7	223.4	217.5	<i>216.1</i>	215.7
72.5°	184.7	181.8	176.3	<i>174.8</i>	174.8
75°	143.8	141.2	136.5	<i>135.0</i>	135.0
77.5°	105.1	102.9	99.3	<i>97.4</i>	97.4
80°	70.1	68.6	65.3	<i>63.9</i>	63.5
82.5°	40.5	39.8	36.9	<i>35.4</i>	36.1
85°	18.6	17.9	16.4	<i>14.6</i>	15.0
87.5°	4.7	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)