

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: P973348

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973348
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-CA125
Description: 1*4 FLR-2.0 3000 LUMEN at 3000CCT & 80CRI with Clear Acrylic (0.125" thickness)

Light Source:
Ballast/Driver: -

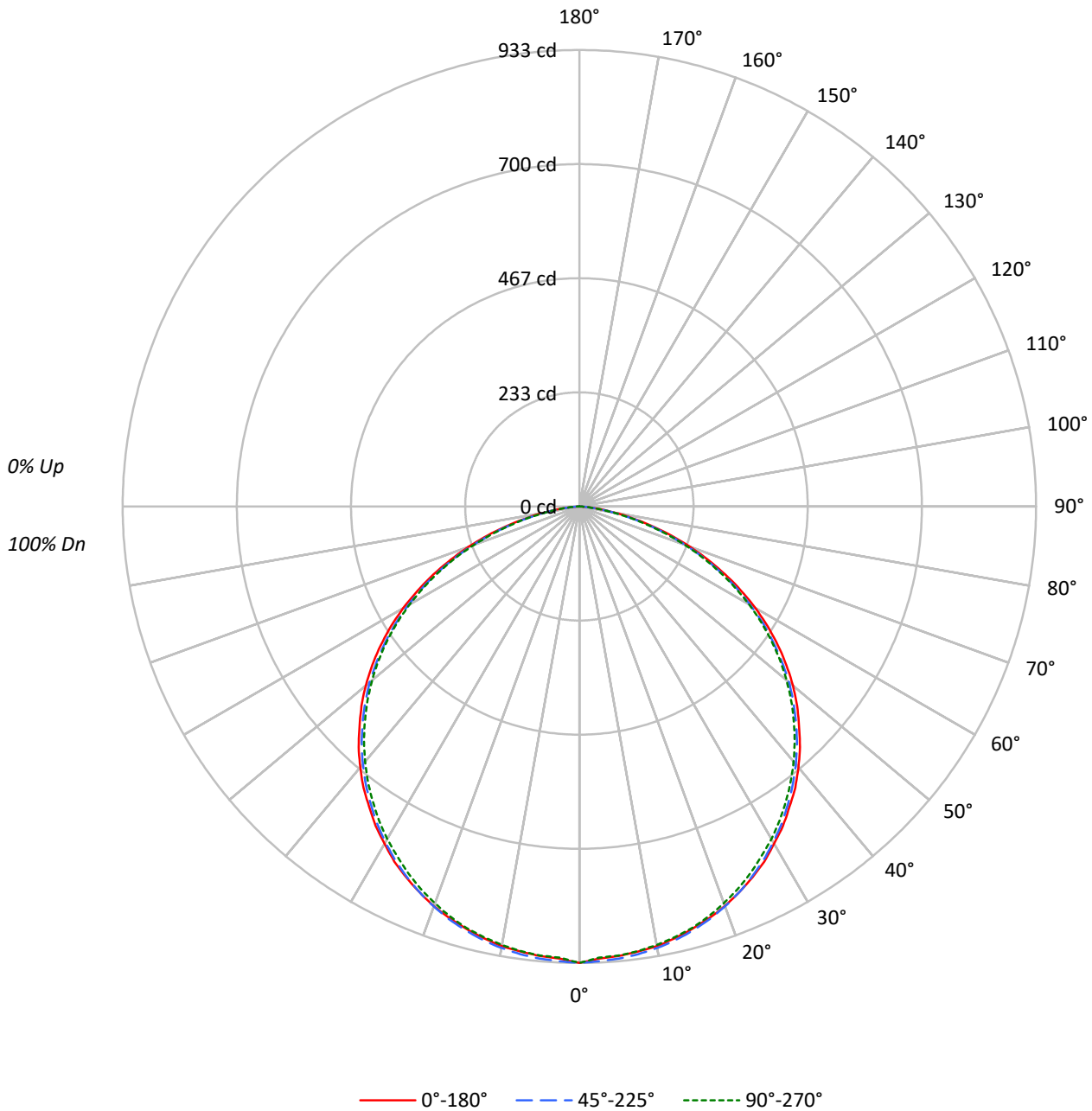
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2611.4 lumens
Efficiency: N/A
Efficacy: 109.3 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									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°	2511	2511	2511
5°	2491	2506	2488
10°	2494	2504	2486
15°	2489	2499	2484
20°	2489	2492	2472
25°	2484	2479	2456
30°	2473	2463	2438
35°	2460	2441	2417
40°	2446	2416	2392
45°	2416	2382	2357
50°	2385	2341	2313
55°	2325	2270	2249
60°	2235	2172	2153
65°	2092	2031	2009
70°	1887	1811	1795
75°	1582	1501	1486
80°	1148	1071	1041
85°	608	537	488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2416 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	3.4
10°-20°	253.8	9.7
20°-30°	385.6	14.8
30°-40°	466.4	17.9
40°-50°	484.7	18.6
50°-60°	434.0	16.6
60°-70°	316.6	12.1
70°-80°	155.9	6.0
80°-90°	26.1	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°	727.8	27.9
0°-40°	1194.2	45.7
0°-60°	2112.9	80.9
0°-90°	2611.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2611.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	922	932	928	936	921	88
15°	894	902	897	905	892	252
25°	836	841	835	839	827	386
35°	749	750	743	746	736	469
45°	635	634	626	627	619	490
55°	496	491	484	483	479	442
65°	329	325	319	317	316	325
75°	152	150	144	143	143	162
85°	20	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°	933.0	933.0	933.0	933.0	933.0
2.5°	924.9	935.4	930.3	939.6	923.0
5°	922.2	932.3	927.6	936.5	921.1
7.5°	917.6	928.0	923.0	931.5	916.8
10°	912.6	921.8	916.4	924.9	909.9
12.5°	903.7	913.0	907.9	915.7	901.8
15°	893.6	901.8	897.1	904.8	891.7
17.5°	882.1	889.8	884.8	891.7	878.6
20°	869.3	875.5	870.1	875.9	863.1
22.5°	853.5	859.3	853.5	857.3	846.1
25°	836.5	840.7	834.9	838.8	827.2
27.5°	818.3	820.7	814.9	817.9	806.0
30°	795.9	798.6	792.5	796.3	784.7
32.5°	774.3	775.9	768.9	772.0	761.6
35°	748.8	750.4	743.0	746.1	735.7
37.5°	724.5	724.1	716.4	718.3	709.4
40°	696.3	695.9	687.8	689.3	680.9
42.5°	667.3	665.8	658.1	658.8	651.1
45°	634.9	634.1	626.0	627.2	619.4
47.5°	603.6	601.3	593.2	593.6	587.0
50°	569.6	566.2	559.2	558.4	552.6
52.5°	533.3	529.5	521.7	521.0	516.7
55°	495.5	491.2	483.9	482.7	479.3
57.5°	456.5	451.1	445.3	443.0	440.3
60°	415.2	410.1	403.6	401.3	400.1
62.5°	372.3	367.3	362.2	359.9	358.4
65°	328.6	324.8	319.0	316.7	315.5
67.5°	284.2	280.8	275.4	272.6	272.3
70°	239.8	236.3	230.2	228.6	228.2
72.5°	195.4	192.3	186.5	185.0	185.0
75°	152.2	149.5	144.4	142.9	142.9
77.5°	111.2	108.9	105.0	103.1	103.1
80°	74.1	72.6	69.1	67.6	67.2
82.5°	42.9	42.1	39.0	37.5	38.2
85°	19.7	18.9	17.4	15.4	15.8
87.5°	5.0	4.6	3.5	2.7	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)