

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: P973345

Luminaire Tested: FLR2-14-30-L830-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973345
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-CA080
Description: 1*4 FLR-2.0 3000 LUMEN at 3000CCT & 80CRI with Clear Acrylic (0.080" thickness)

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

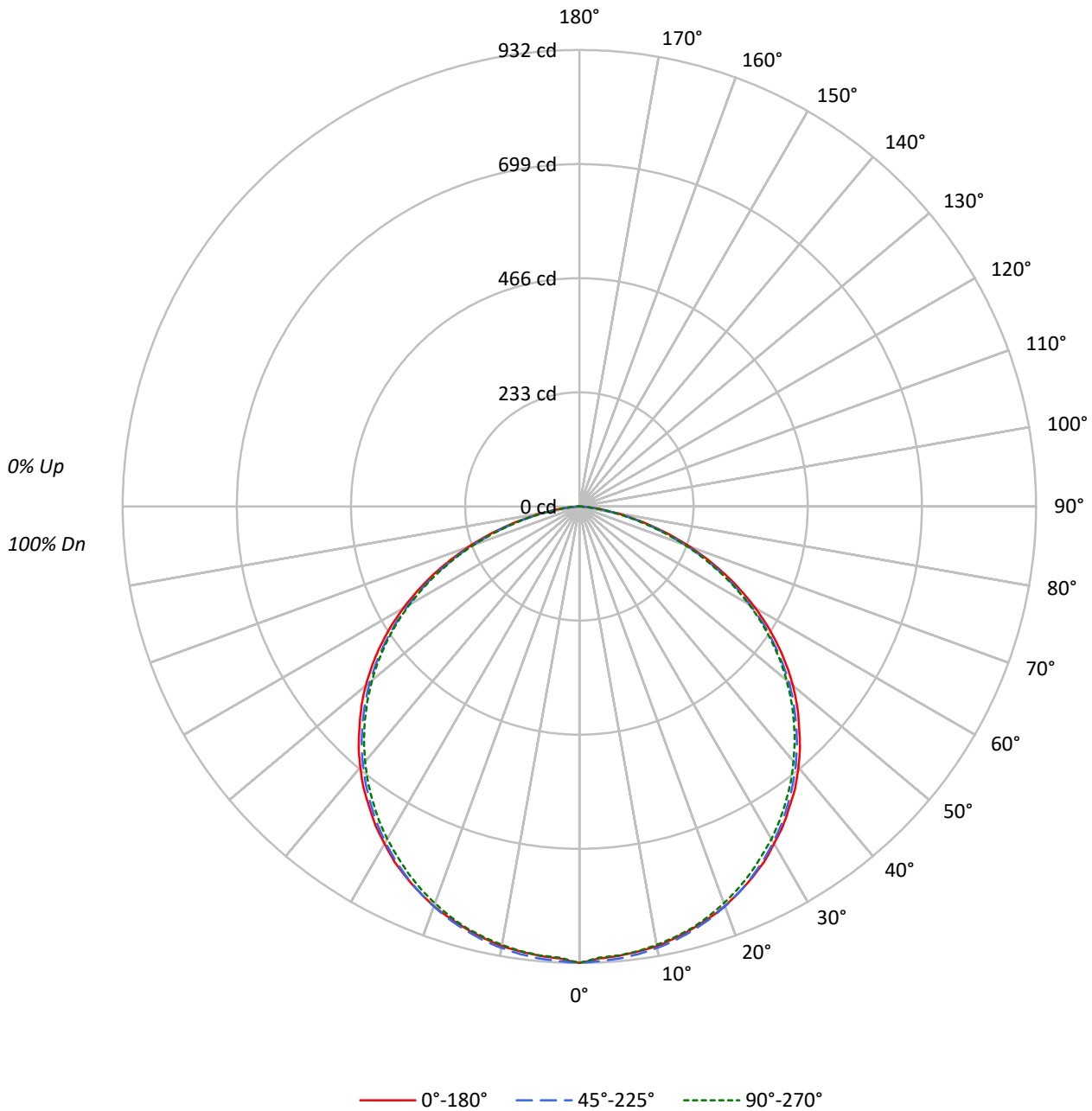
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2608.6 lumens
Efficiency: N/A
Efficacy: 109.1 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				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°	2508	2508	2508
5°	2488	2503	2485
10°	2491	2501	2484
15°	2487	2497	2482
20°	2487	2489	2469
25°	2481	2476	2453
30°	2471	2460	2436
35°	2457	2438	2414
40°	2443	2414	2389
45°	2414	2380	2355
50°	2382	2339	2311
55°	2322	2268	2246
60°	2232	2169	2151
65°	2090	2029	2007
70°	1885	1809	1794
75°	1580	1500	1484
80°	1148	1071	1040
85°	608	537	488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2414 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	3.4
10°-20°	253.5	9.7
20°-30°	385.2	14.8
30°-40°	465.9	17.9
40°-50°	484.2	18.6
50°-60°	433.5	16.6
60°-70°	316.2	12.1
70°-80°	155.7	6.0
80°-90°	26.0	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°	727.0	27.9
0°-40°	1192.9	45.7
0°-60°	2110.6	80.9
0°-90°	2608.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2608.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	921	931	927	936	920	88
15°	893	901	896	904	891	252
25°	836	840	834	838	826	385
35°	748	750	742	745	735	468
45°	634	633	625	626	619	490
55°	495	491	483	482	479	442
65°	328	324	319	316	315	324
75°	152	149	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°	932.0	932.0	932.0	932.0	932.0
2.5°	923.9	934.3	929.3	938.6	922.0
5°	921.2	931.3	926.6	935.5	920.1
7.5°	916.6	927.0	922.0	930.5	915.8
10°	911.6	920.8	915.4	923.9	908.9
12.5°	902.7	912.0	907.0	914.7	900.8
15°	892.7	900.8	896.2	903.9	890.8
17.5°	881.1	888.8	883.8	890.8	877.6
20°	868.4	874.5	869.1	874.9	862.2
22.5°	852.6	858.3	852.6	856.4	845.2
25°	835.6	839.8	834.0	837.9	826.3
27.5°	817.5	819.8	814.0	817.1	805.1
30°	795.1	797.8	791.6	795.5	783.9
32.5°	773.5	775.0	768.1	771.2	760.7
35°	748.0	749.6	742.2	745.3	734.9
37.5°	723.7	723.3	715.6	717.5	708.7
40°	695.5	695.2	687.1	688.6	680.1
42.5°	666.6	665.1	657.4	658.1	650.4
45°	634.2	633.4	625.3	626.5	618.8
47.5°	603.0	600.6	592.5	592.9	586.4
50°	569.0	565.5	558.6	557.8	552.0
52.5°	532.8	528.9	521.2	520.4	516.2
55°	494.9	490.7	483.4	482.2	478.7
57.5°	456.0	450.6	444.8	442.5	439.8
60°	414.7	409.7	403.1	400.8	399.7
62.5°	371.9	366.9	361.9	359.5	358.0
65°	328.3	324.4	318.6	316.3	315.2
67.5°	283.9	280.5	275.1	272.4	272.0
70°	239.6	236.1	229.9	228.4	228.0
72.5°	195.2	192.1	186.3	184.8	184.8
75°	152.0	149.3	144.3	142.7	142.7
77.5°	111.1	108.8	104.9	103.0	103.0
80°	74.1	72.5	69.1	67.5	67.1
82.5°	42.8	42.0	39.0	37.4	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)