

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: P973456

Luminaire Tested: FLR2-14-30-L850-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973456
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-L850-CP080
Description: 1*4 FLR-2.0 3000 LUMEN at 5000 CCT & 80CRI Clear Polycarbonate (0.080" thickness)

Light Source:
Ballast/Driver: -

Summary

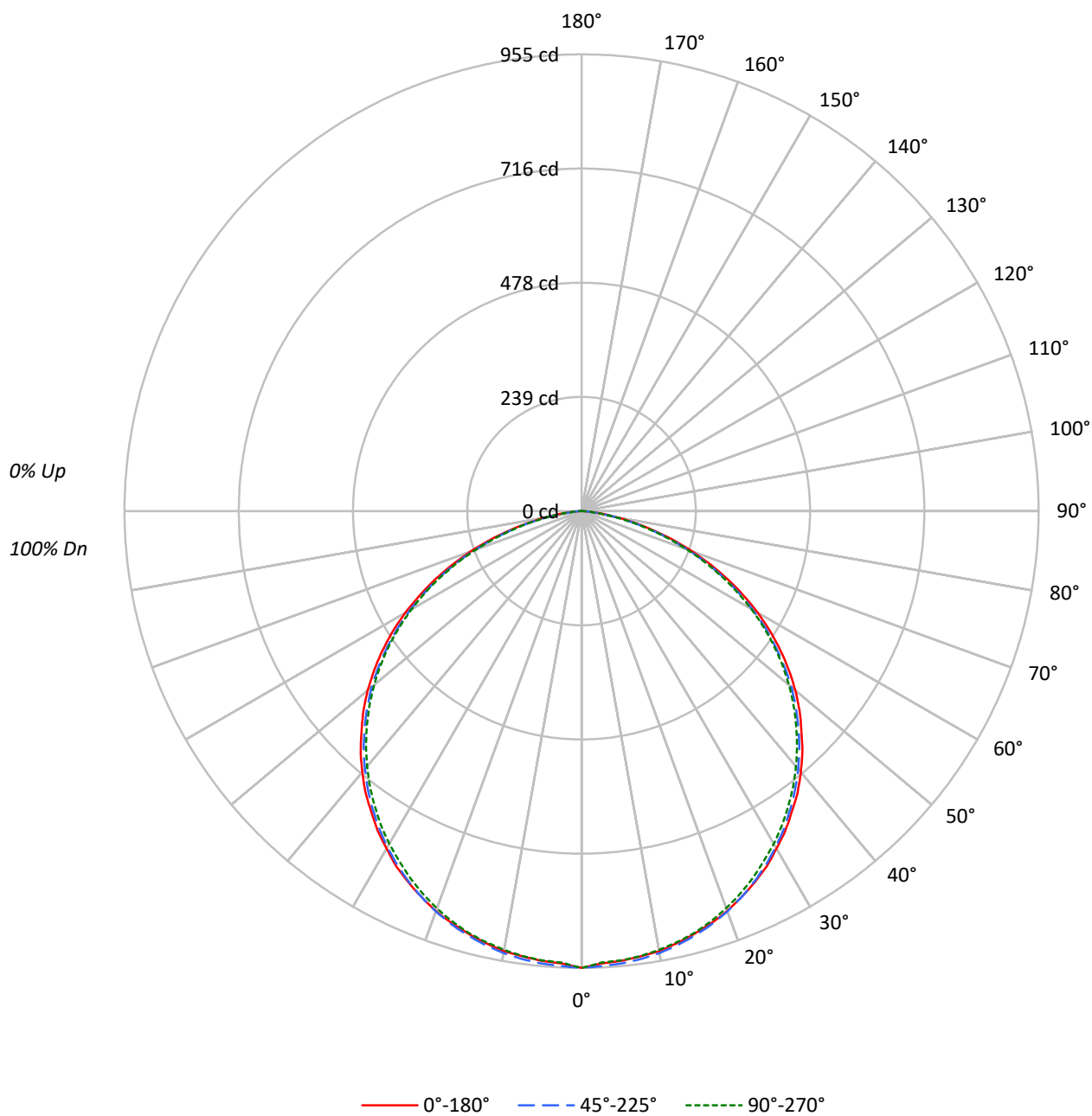
Lumens per Lamp: N/A
Luminaire Lumens: 2673.2 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	2570	2570	2570
5°	2550	2565	2547
10°	2553	2563	2545
15°	2549	2558	2543
20°	2548	2551	2530
25°	2542	2538	2514
30°	2532	2521	2496
35°	2518	2499	2474
40°	2504	2473	2448
45°	2473	2439	2413
50°	2441	2396	2368
55°	2380	2324	2302
60°	2287	2223	2204
65°	2142	2079	2057
70°	1932	1854	1838
75°	1620	1538	1521
80°	1176	1097	1066
85°	624	550	500

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2473 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	3.4
10°-20°	259.8	9.7
20°-30°	394.7	14.8
30°-40°	477.5	17.9
40°-50°	496.2	18.6
50°-60°	444.3	16.6
60°-70°	324.0	12.1
70°-80°	159.6	6.0
80°-90°	26.7	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°	745.0	27.9
0°-40°	1222.4	45.7
0°-60°	2162.9	80.9
0°-90°	2673.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2673.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	944	954	950	959	943	90
15°	915	923	918	926	913	258
25°	856	861	855	859	847	395
35°	766	768	761	764	753	480
45°	650	649	641	642	634	502
55°	507	503	495	494	491	453
65°	336	332	326	324	323	332
75°	156	153	148	146	146	166
85°	20	19	18	16	16	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	955.1	955.1	955.1	955.1	955.1
2.5°	946.8	957.5	952.3	961.8	944.8
5°	944.0	954.3	949.6	958.7	942.8
7.5°	939.3	950.0	944.8	953.5	938.5
10°	934.2	943.6	938.1	946.8	931.4
12.5°	925.1	934.5	929.4	937.3	923.1
15°	914.8	923.1	918.3	926.2	912.8
17.5°	902.9	910.8	905.7	912.8	899.4
20°	889.9	896.2	890.7	896.6	883.5
22.5°	873.7	879.6	873.7	877.6	866.2
25°	856.3	860.6	854.7	858.6	846.8
27.5°	837.7	840.1	834.1	837.3	825.0
30°	814.8	817.5	811.2	815.2	803.3
32.5°	792.6	794.2	787.1	790.3	779.6
35°	766.5	768.1	760.6	763.8	753.1
37.5°	741.6	741.2	733.3	735.3	726.2
40°	712.8	712.4	704.1	705.7	697.0
42.5°	683.1	681.5	673.6	674.4	666.5
45°	649.9	649.1	640.8	642.0	634.1
47.5°	617.9	615.5	607.2	607.6	600.9
50°	583.1	579.5	572.4	571.6	565.7
52.5°	545.9	542.0	534.1	533.3	528.9
55°	507.2	502.9	495.3	494.2	490.6
57.5°	467.3	461.7	455.8	453.4	450.7
60°	425.0	419.8	413.1	410.7	409.6
62.5°	381.1	376.0	370.8	368.4	366.9
65°	336.4	332.5	326.5	324.2	323.0
67.5°	291.0	287.4	281.9	279.1	278.7
70°	245.5	241.9	235.6	234.0	233.6
72.5°	200.0	196.9	190.9	189.4	189.4
75°	155.8	153.0	147.9	146.3	146.3
77.5°	113.9	111.5	107.5	105.6	105.6
80°	75.9	74.3	70.8	69.2	68.8
82.5°	43.9	43.1	39.9	38.3	39.1
85°	20.2	19.4	17.8	15.8	16.2
87.5°	5.1	4.7	3.6	2.8	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)