

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: P973465

Luminaire Tested: FLR2-14-30-L850-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973465
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-CP250
Description: 1*4 FLR-2.0 3000 LUMEN at 5000 CCT & 80CRI Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

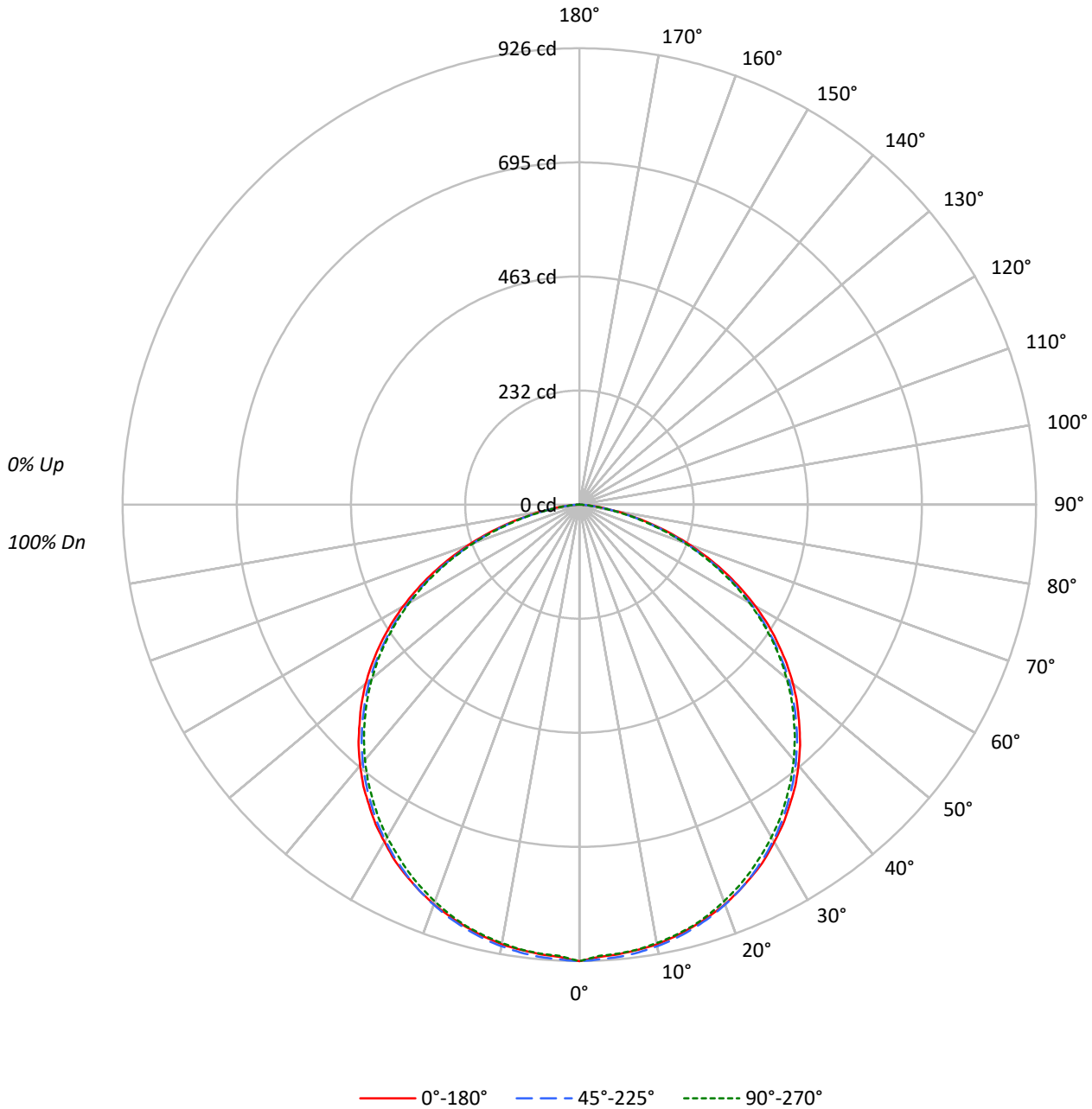
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2593.2 lumens
Efficiency: N/A
Efficacy: 108.5 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°	2493	2493	2493
5°	2474	2488	2471
10°	2476	2487	2469
15°	2472	2482	2467
20°	2472	2474	2454
25°	2466	2462	2439
30°	2456	2445	2421
35°	2443	2424	2400
40°	2429	2399	2375
45°	2399	2366	2341
50°	2368	2325	2298
55°	2308	2254	2233
60°	2219	2157	2138
65°	2078	2017	1995
70°	1873	1799	1783
75°	1571	1491	1475
80°	1141	1063	1034
85°	605	534	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2399 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.4
10°-20°	252.0	9.7
20°-30°	382.9	14.8
30°-40°	463.2	17.9
40°-50°	481.4	18.6
50°-60°	431.0	16.6
60°-70°	314.3	12.1
70°-80°	154.8	6.0
80°-90°	25.9	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°	722.7	27.9
0°-40°	1185.8	45.7
0°-60°	2098.2	80.9
0°-90°	2593.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2593.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	916	926	921	930	915	87
15°	887	896	891	898	886	251
25°	831	835	829	833	821	383
35°	744	745	738	741	731	466
45°	630	630	622	623	615	487
55°	492	488	480	479	476	439
65°	326	322	317	314	313	322
75°	151	148	143	142	142	161
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°	926.5	926.5	926.5	926.5	926.5
2.5°	918.5	928.8	923.8	933.0	916.6
5°	915.8	925.8	921.2	930.0	914.6
7.5°	911.2	921.5	916.6	925.0	910.4
10°	906.2	915.4	910.0	918.5	903.5
12.5°	897.4	906.6	901.6	909.3	895.5
15°	887.4	895.5	890.9	898.5	885.5
17.5°	875.9	883.6	878.6	885.5	872.4
20°	863.2	869.4	864.0	869.8	857.1
22.5°	847.5	853.3	847.5	851.4	840.2
25°	830.6	834.9	829.1	832.9	821.4
27.5°	812.6	814.9	809.2	812.2	800.4
30°	790.4	793.1	786.9	790.8	779.3
32.5°	768.9	770.4	763.5	766.6	756.3
35°	743.6	745.1	737.8	740.9	730.6
37.5°	719.4	719.1	711.4	713.3	704.5
40°	691.4	691.1	683.0	684.5	676.1
42.5°	662.7	661.1	653.5	654.2	646.6
45°	630.5	629.7	621.6	622.8	615.1
47.5°	599.4	597.1	589.0	589.4	582.9
50°	565.7	562.2	555.3	554.5	548.8
52.5°	529.6	525.8	518.1	517.3	513.1
55°	492.0	487.8	480.5	479.4	475.9
57.5°	453.3	447.9	442.2	439.9	437.2
60°	412.3	407.3	400.8	398.5	397.3
62.5°	369.7	364.7	359.7	357.4	355.9
65°	326.4	322.5	316.8	314.5	313.3
67.5°	282.3	278.8	273.4	270.7	270.4
70°	238.1	234.7	228.6	227.0	226.6
72.5°	194.0	191.0	185.2	183.7	183.7
75°	151.1	148.4	143.4	141.9	141.9
77.5°	110.4	108.1	104.3	102.4	102.4
80°	73.6	72.1	68.6	67.1	66.7
82.5°	42.6	41.8	38.7	37.2	38.0
85°	19.6	18.8	17.3	15.3	15.7
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)