

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: P973459

Luminaire Tested: FLR2-14-30-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973459
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-CP125
Description: 1*4 FLR-2.0 3000 LUMEN at 5000 CCT & 80CRI Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

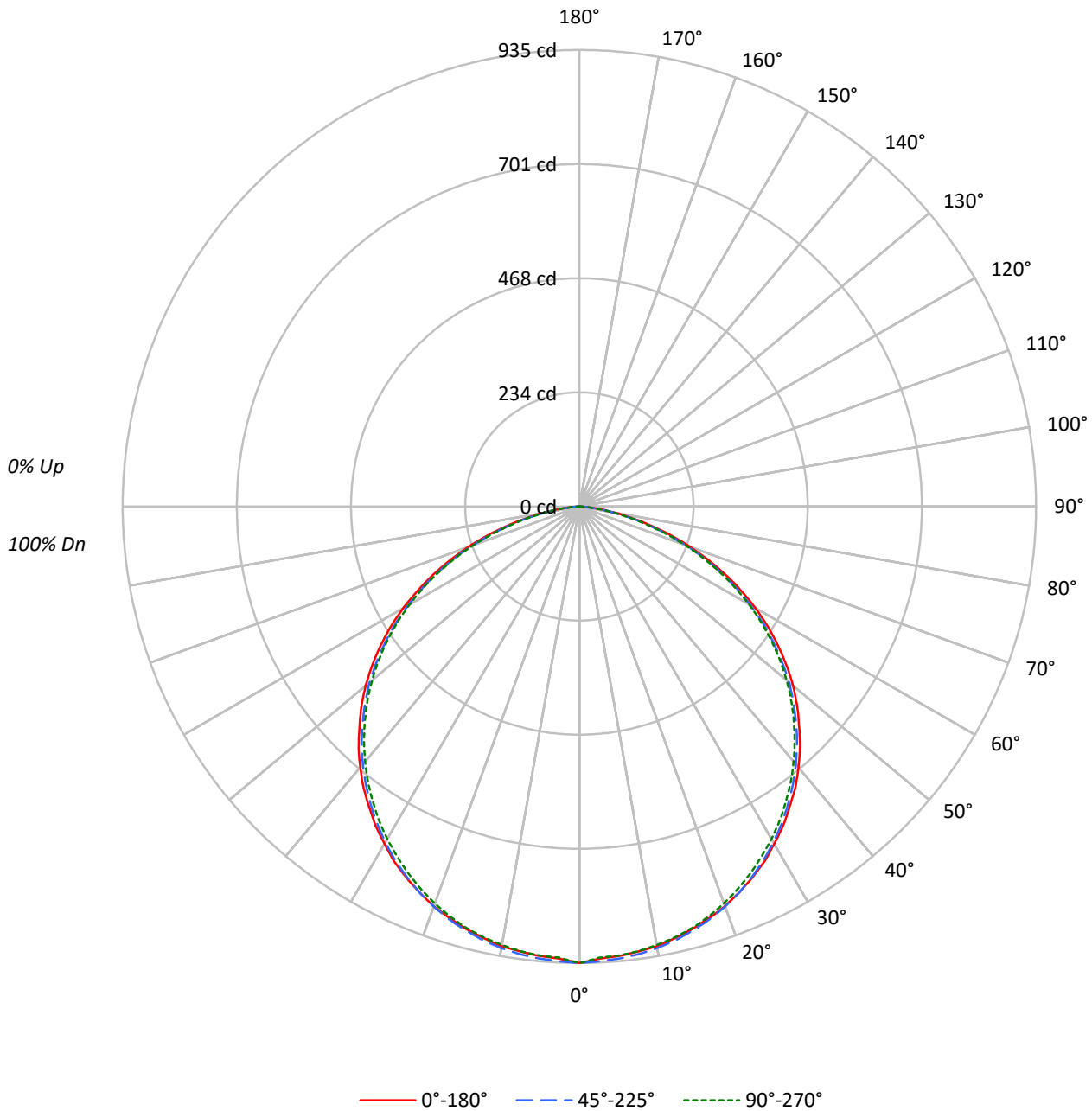
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2617.6 lumens
Efficiency: N/A
Efficacy: 109.5 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				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°	2517	2517	2517
5°	2497	2512	2494
10°	2499	2510	2492
15°	2495	2505	2490
20°	2495	2497	2478
25°	2490	2485	2462
30°	2479	2468	2444
35°	2466	2447	2422
40°	2452	2422	2398
45°	2422	2388	2363
50°	2390	2346	2319
55°	2330	2275	2254
60°	2239	2177	2158
65°	2097	2036	2014
70°	1891	1815	1800
75°	1586	1506	1489
80°	1151	1074	1044
85°	608	537	491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2422 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	3.4
10°-20°	254.4	9.7
20°-30°	386.5	14.8
30°-40°	467.5	17.9
40°-50°	485.9	18.6
50°-60°	435.0	16.6
60°-70°	317.3	12.1
70°-80°	156.3	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°	729.5	27.9
0°-40°	1197.0	45.7
0°-60°	2117.9	80.9
0°-90°	2617.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2617.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	924	934	930	939	923	88
15°	896	904	899	907	894	253
25°	838	843	837	841	829	387
35°	751	752	745	748	737	470
45°	636	636	628	629	621	491
55°	497	492	485	484	480	443
65°	329	326	320	317	316	325
75°	152	150	145	143	143	163
85°	20	19	17	16	16	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.2	935.2	935.2	935.2	935.2
2.5°	927.1	937.5	932.5	941.8	925.2
5°	924.4	934.5	929.8	938.7	923.2
7.5°	919.7	930.2	925.2	933.7	919.0
10°	914.7	924.0	918.6	927.1	912.0
12.5°	905.8	915.1	910.1	917.8	903.9
15°	895.7	903.9	899.2	907.0	893.8
17.5°	884.1	891.9	886.8	893.8	880.6
20°	871.4	877.5	872.1	877.9	865.2
22.5°	855.5	861.3	855.5	859.4	848.1
25°	838.5	842.7	836.9	840.8	829.2
27.5°	820.3	822.6	816.8	819.9	807.9
30°	797.8	800.5	794.3	798.2	786.6
32.5°	776.1	777.7	770.7	773.8	763.4
35°	750.6	752.1	744.8	747.9	737.4
37.5°	726.2	725.8	718.1	720.0	711.1
40°	697.9	697.5	689.4	691.0	682.5
42.5°	668.9	667.4	659.6	660.4	652.6
45°	636.4	635.6	627.5	628.6	620.9
47.5°	605.0	602.7	594.6	595.0	588.4
50°	571.0	567.5	560.5	559.7	553.9
52.5°	534.6	530.7	523.0	522.2	517.9
55°	496.6	492.4	485.0	483.9	480.4
57.5°	457.5	452.1	446.3	444.0	441.3
60°	416.1	411.1	404.5	402.2	401.0
62.5°	373.2	368.1	363.1	360.8	359.2
65°	329.4	325.5	319.7	317.4	316.3
67.5°	284.9	281.4	276.0	273.3	272.9
70°	240.4	236.9	230.7	229.2	228.8
72.5°	195.9	192.8	187.0	185.4	185.4
75°	152.5	149.8	144.8	143.2	143.2
77.5°	111.5	109.2	105.3	103.4	103.4
80°	74.3	72.8	69.3	67.7	67.4
82.5°	43.0	42.2	39.1	37.5	38.3
85°	19.7	19.0	17.4	15.5	15.9
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)