

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: P973265

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973265
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: FLR2-14-30HE-L850-CP125
Description: 1*4 FLR-2.0 5000 Lumen High Efficacy at 5000CCT & 80CRI Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

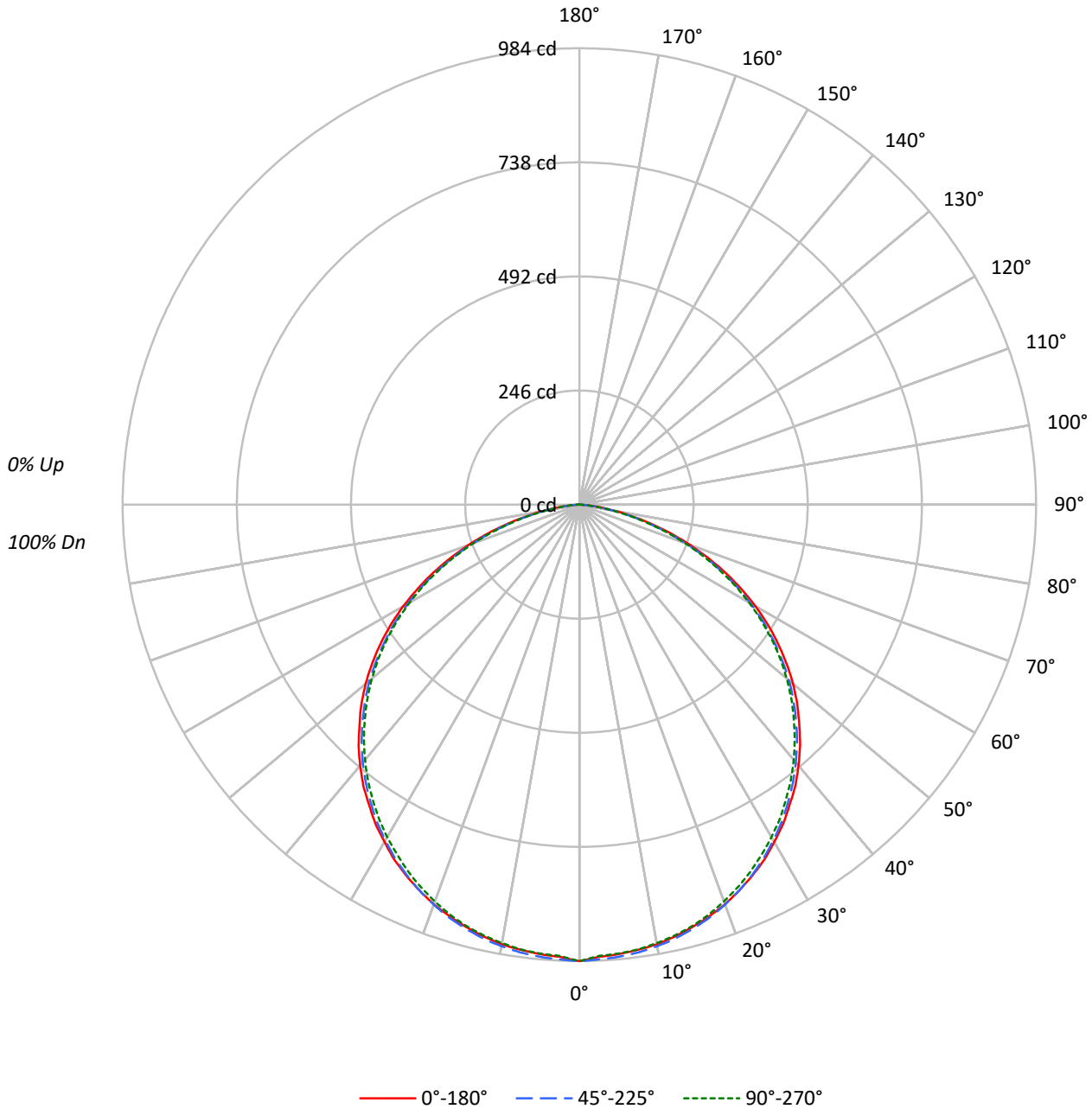
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2755.3 lumens
Efficiency: N/A
Efficacy: 123.0 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): 22.4
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°	2649	2649	2649
5°	2628	2644	2625
10°	2631	2642	2623
15°	2627	2637	2621
20°	2627	2629	2608
25°	2621	2616	2591
30°	2609	2598	2573
35°	2596	2576	2550
40°	2581	2549	2524
45°	2549	2514	2487
50°	2516	2470	2441
55°	2453	2396	2373
60°	2357	2292	2272
65°	2208	2143	2120
70°	1991	1911	1895
75°	1669	1585	1568
80°	1212	1130	1099
85°	642	565	516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2549 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.4
10°-20°	267.8	9.7
20°-30°	406.8	14.8
30°-40°	492.1	17.9
40°-50°	511.5	18.6
50°-60°	457.9	16.6
60°-70°	334.0	12.1
70°-80°	164.5	6.0
80°-90°	27.5	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°	767.9	27.9
0°-40°	1260.0	45.7
0°-60°	2229.4	80.9
0°-90°	2755.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2755.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	973	984	979	988	972	93
15°	943	951	947	955	941	266
25°	883	887	881	885	873	407
35°	790	792	784	787	776	495
45°	670	669	660	662	654	517
55°	523	518	511	509	506	467
65°	347	343	337	334	333	343
75°	160	158	152	151	151	171
85°	21	20	18	16	17	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	984.4	984.4	984.4	984.4	984.4
2.5°	975.9	986.9	981.6	991.4	973.9
5°	973.0	983.6	978.7	988.1	971.8
7.5°	968.1	979.2	973.9	982.8	967.3
10°	962.9	972.6	966.9	975.9	960.0
12.5°	953.5	963.3	958.0	966.1	951.4
15°	942.9	951.4	946.6	954.7	940.8
17.5°	930.7	938.8	933.5	940.8	927.0
20°	917.2	923.7	918.0	924.1	910.7
22.5°	900.5	906.6	900.5	904.6	892.8
25°	882.6	887.1	881.0	885.0	872.8
27.5°	863.4	865.9	859.8	863.0	850.4
30°	839.8	842.6	836.1	840.2	828.0
32.5°	817.0	818.6	811.3	814.5	803.5
35°	790.1	791.7	784.0	787.2	776.2
37.5°	764.4	764.0	755.9	757.9	748.5
40°	734.7	734.3	725.7	727.3	718.4
42.5°	704.1	702.5	694.3	695.1	687.0
45°	669.9	669.1	660.5	661.7	653.6
47.5°	636.9	634.4	625.9	626.3	619.4
50°	601.0	597.4	590.0	589.2	583.1
52.5°	562.7	558.6	550.5	549.7	545.2
55°	522.8	518.3	510.6	509.3	505.7
57.5°	481.6	475.9	469.8	467.4	464.5
60°	438.0	432.7	425.8	423.4	422.1
62.5°	392.8	387.5	382.2	379.8	378.1
65°	346.8	342.7	336.6	334.1	332.9
67.5°	299.9	296.2	290.5	287.7	287.3
70°	253.0	249.4	242.9	241.2	240.8
72.5°	206.2	202.9	196.8	195.2	195.2
75°	160.5	157.7	152.4	150.8	150.8
77.5°	117.4	114.9	110.8	108.8	108.8
80°	78.2	76.6	72.9	71.3	70.9
82.5°	45.2	44.4	41.2	39.5	40.3
85°	20.8	20.0	18.3	16.3	16.7
87.5°	5.3	4.9	3.7	2.9	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)