

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: P973291

Luminaire Tested: FLR2-14-42HE-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973291
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: FLR2-14-42HE-L850-CA125
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 5000CCT & 80CRI with Clear Aryalic (0.125" thickness)

Light Source:
Ballast/Driver: -

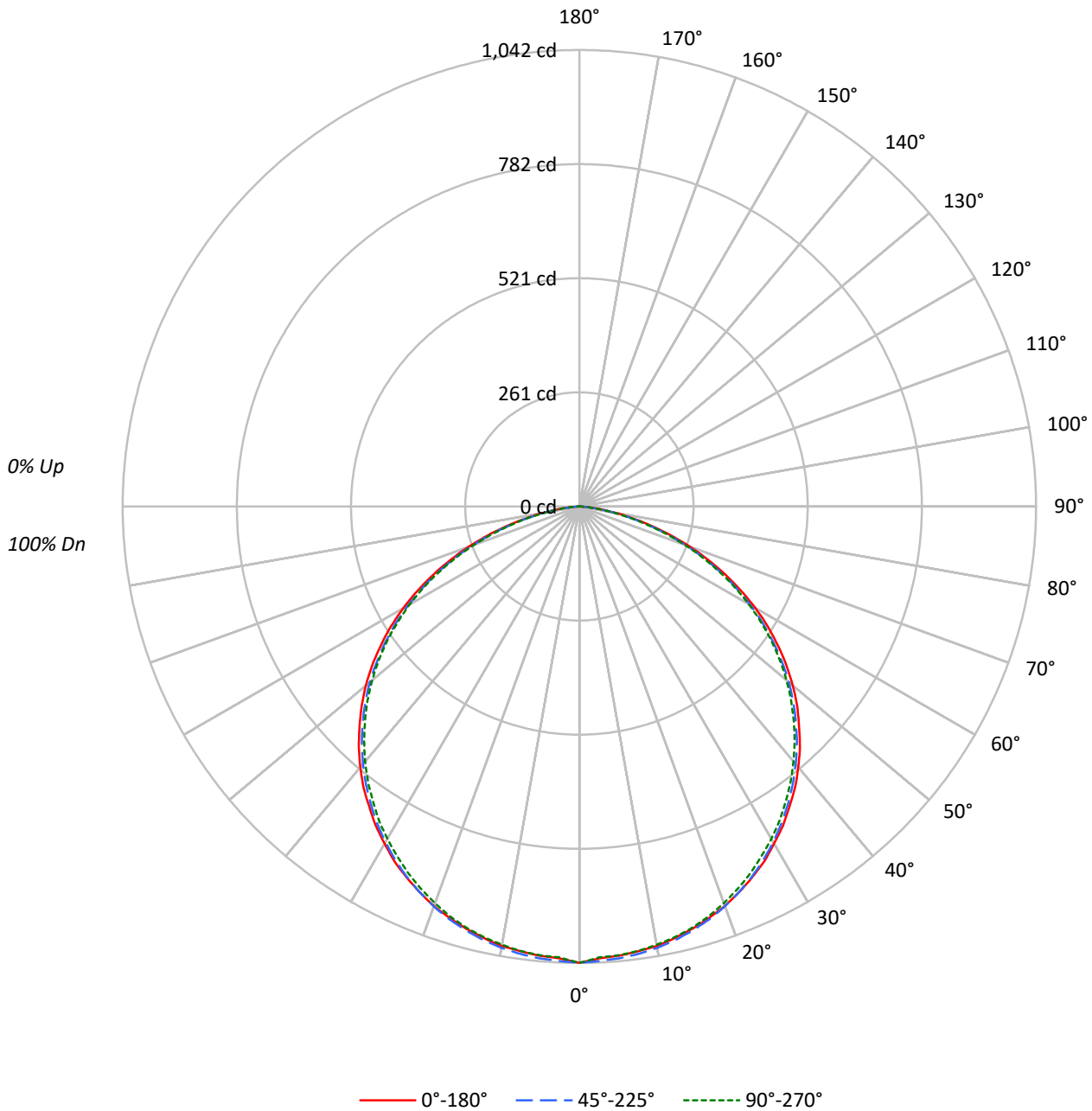
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2915.5 lumens
Efficiency: N/A
Efficacy: 91.4 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): 31.9
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°	2803	2803	2803
5°	2781	2797	2778
10°	2784	2796	2776
15°	2779	2790	2773
20°	2779	2782	2759
25°	2773	2768	2742
30°	2761	2749	2722
35°	2746	2725	2698
40°	2731	2697	2670
45°	2697	2660	2632
50°	2662	2614	2583
55°	2595	2534	2510
60°	2495	2425	2404
65°	2336	2267	2243
70°	2106	2022	2005
75°	1766	1677	1658
80°	1283	1196	1162
85°	679	599	546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2697 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	3.4
10°-20°	283.3	9.7
20°-30°	430.5	14.8
30°-40°	520.7	17.9
40°-50°	541.2	18.6
50°-60°	484.5	16.6
60°-70°	353.4	12.1
70°-80°	174.0	6.0
80°-90°	29.1	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°	812.5	27.9
0°-40°	1333.2	45.7
0°-60°	2358.9	80.9
0°-90°	2915.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2915.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1030	1041	1036	1046	1028	98
15°	998	1007	1002	1010	996	282
25°	934	939	932	936	924	431
35°	836	838	830	833	821	524
45°	709	708	699	700	692	547
55°	553	548	540	539	535	494
65°	367	363	356	354	352	362
75°	170	167	161	160	160	181
85°	22	21	19	17	18	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1041.7	1041.7	1041.7	1041.7	1041.7
2.5°	1032.6	1044.3	1038.6	1049.0	1030.5
5°	1029.6	1040.8	1035.6	1045.5	1028.3
7.5°	1024.4	1036.1	1030.5	1039.9	1023.6
10°	1018.8	1029.2	1023.1	1032.6	1015.8
12.5°	1008.9	1019.2	1013.6	1022.3	1006.7
15°	997.7	1006.7	1001.6	1010.2	995.5
17.5°	984.8	993.4	987.8	995.5	980.9
20°	970.5	977.4	971.4	977.9	963.6
22.5°	952.8	959.3	952.8	957.2	944.7
25°	933.9	938.6	932.2	936.5	923.5
27.5°	913.6	916.2	909.7	913.2	899.8
30°	888.6	891.6	884.7	889.0	876.1
32.5°	864.5	866.2	858.4	861.9	850.2
35°	836.0	837.7	829.5	833.0	821.3
37.5°	808.8	808.4	799.8	801.9	792.0
40°	777.4	776.9	767.9	769.6	760.1
42.5°	745.0	743.3	734.7	735.5	726.9
45°	708.8	708.0	698.9	700.2	691.6
47.5°	673.9	671.3	662.2	662.7	655.4
50°	635.9	632.1	624.3	623.4	617.0
52.5°	595.4	591.1	582.5	581.6	576.9
55°	553.2	548.4	540.2	538.9	535.1
57.5°	509.6	503.6	497.1	494.5	491.5
60°	463.5	457.9	450.6	448.0	446.7
62.5°	415.6	410.0	404.4	401.8	400.1
65°	366.9	362.6	356.1	353.5	352.3
67.5°	317.3	313.4	307.4	304.4	304.0
70°	267.7	263.9	257.0	255.2	254.8
72.5°	218.2	214.7	208.2	206.5	206.5
75°	169.9	166.9	161.3	159.5	159.5
77.5°	124.2	121.6	117.3	115.1	115.1
80°	82.8	81.1	77.2	75.5	75.0
82.5°	47.9	47.0	43.5	41.8	42.7
85°	22.0	21.1	19.4	17.2	17.7
87.5°	5.6	5.2	3.9	3.0	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)