

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: P973285

Luminaire Tested: FLR2-14-30HE-L850-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973285
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-CA080
Description: 1*4 FLR-2.0 5000 Lumen High Efficacy at 5000CCT & 80CRI Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

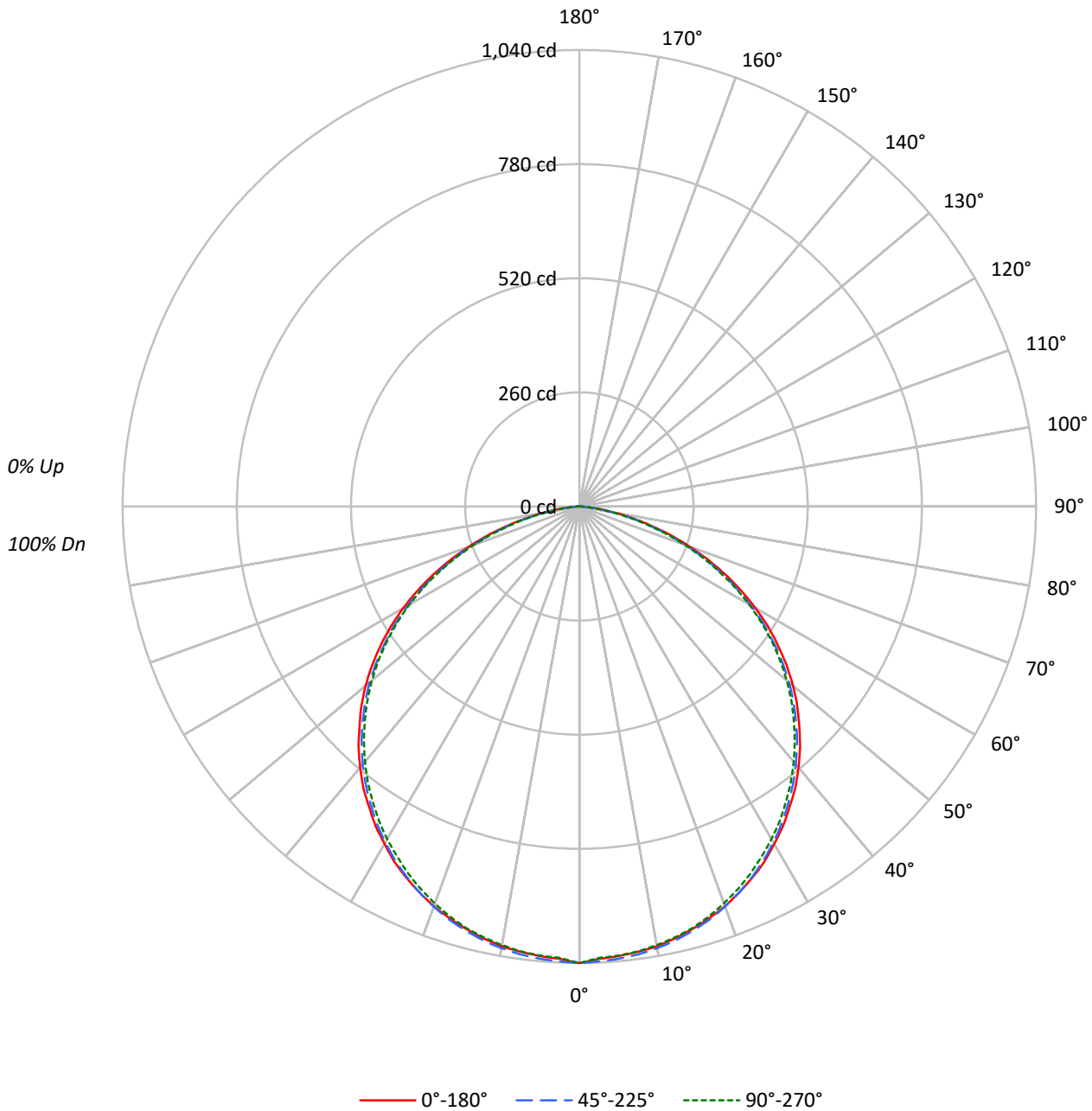
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2912.4 lumens
Efficiency: N/A
Efficacy: 130.0 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	2800	2800	2800
5°	2778	2794	2775
10°	2781	2793	2773
15°	2776	2787	2771
20°	2776	2779	2757
25°	2770	2765	2739
30°	2758	2746	2719
35°	2743	2722	2695
40°	2728	2695	2667
45°	2695	2657	2629
50°	2660	2611	2580
55°	2593	2532	2508
60°	2492	2422	2401
65°	2334	2265	2241
70°	2105	2020	2002
75°	1764	1675	1657
80°	1282	1195	1161
85°	679	599	546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2695 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	3.4
10°-20°	283.0	9.7
20°-30°	430.0	14.8
30°-40°	520.2	17.9
40°-50°	540.6	18.6
50°-60°	484.0	16.6
60°-70°	353.0	12.1
70°-80°	173.9	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°	811.6	27.9
0°-40°	1331.8	45.7
0°-60°	2356.4	80.9
0°-90°	2912.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2912.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1028	1040	1034	1044	1027	98
15°	997	1006	1000	1009	994	281
25°	933	938	931	936	922	430
35°	835	837	829	832	820	523
45°	708	707	698	699	691	547
55°	553	548	540	538	534	493
65°	366	362	356	353	352	362
75°	170	167	161	159	159	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°	1040.5	1040.5	1040.5	1040.5	1040.5
2.5°	1031.5	1043.1	1037.5	1047.9	1029.3
5°	1028.5	1039.7	1034.5	1044.4	1027.2
7.5°	1023.3	1034.9	1029.3	1038.8	1022.5
10°	1017.7	1028.1	1022.0	1031.5	1014.7
12.5°	1007.8	1018.1	1012.5	1021.2	1005.7
15°	996.6	1005.7	1000.5	1009.1	994.5
17.5°	983.7	992.3	986.7	994.5	979.8
20°	969.5	976.4	970.3	976.8	962.6
22.5°	951.8	958.3	951.8	956.1	943.6
25°	932.9	937.6	931.1	935.5	922.5
27.5°	912.6	915.2	908.8	912.2	898.8
30°	887.6	890.7	883.8	888.1	875.2
32.5°	863.5	865.3	857.5	860.9	849.3
35°	835.1	836.8	828.6	832.1	820.5
37.5°	808.0	807.5	798.9	801.1	791.2
40°	776.5	776.1	767.1	768.8	759.3
42.5°	744.2	742.5	733.9	734.8	726.1
45°	708.1	707.2	698.1	699.4	690.8
47.5°	673.2	670.6	661.5	662.0	654.6
50°	635.3	631.4	623.6	622.8	616.3
52.5°	594.8	590.5	581.9	581.0	576.3
55°	552.6	547.8	539.7	538.4	534.5
57.5°	509.1	503.0	496.6	494.0	491.0
60°	463.0	457.4	450.1	447.5	446.2
62.5°	415.2	409.6	404.0	401.4	399.7
65°	366.5	362.2	355.7	353.2	351.9
67.5°	317.0	313.1	307.1	304.1	303.6
70°	267.5	263.6	256.7	255.0	254.5
72.5°	217.9	214.5	208.0	206.3	206.3
75°	169.7	166.7	161.1	159.4	159.4
77.5°	124.0	121.5	117.1	115.0	115.0
80°	82.7	81.0	77.1	75.4	74.9
82.5°	47.8	46.9	43.5	41.8	42.6
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)