

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: P973151

Luminaire Tested: FLR2-14-42HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973151
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-L835-CA125
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 3500CCT & 80CRI with Clear Aryalic (0.125" thickness)

Light Source:
Ballast/Driver: -

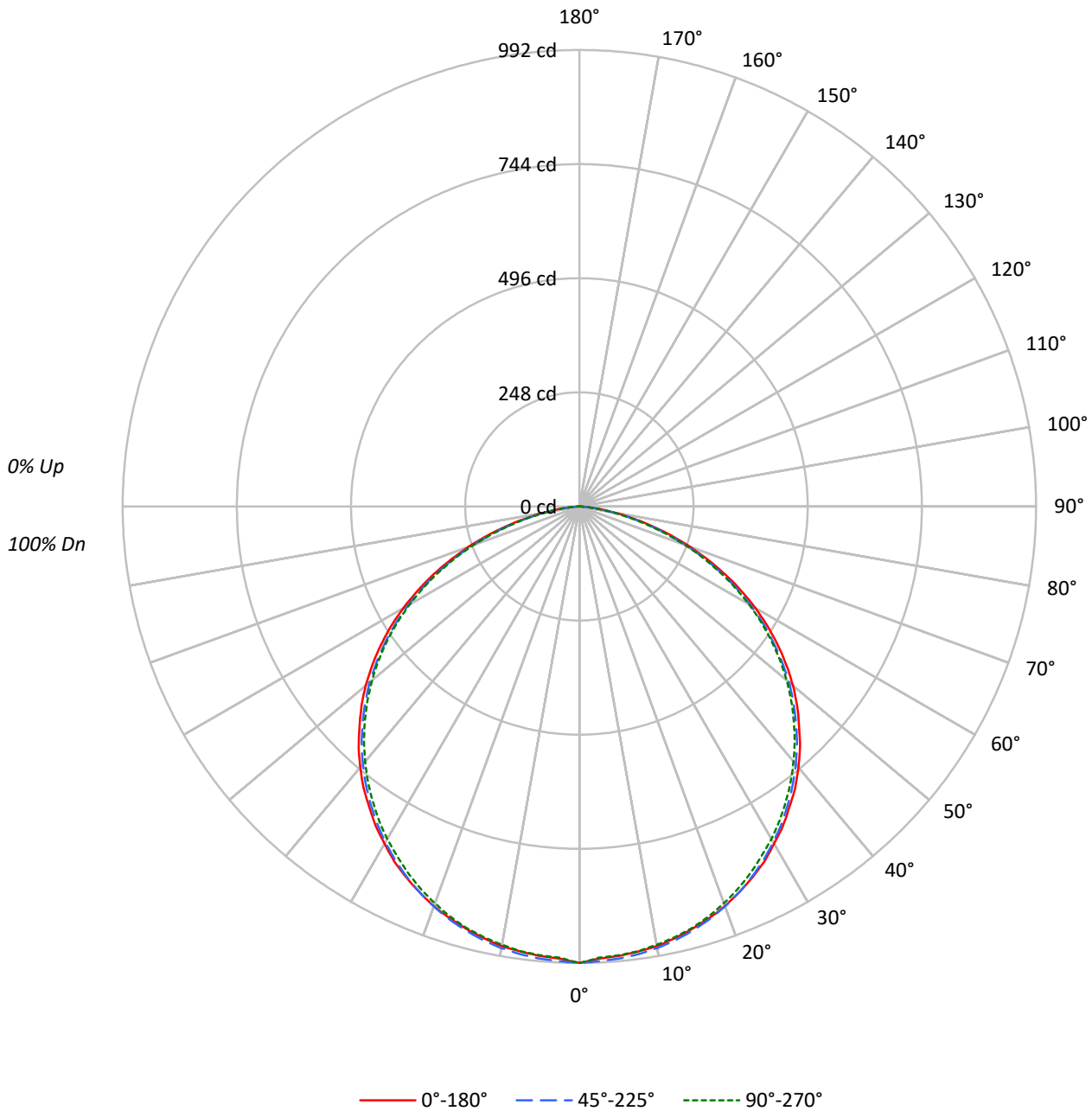
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2776.6 lumens
Efficiency: N/A
Efficacy: 87.0 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): 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									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	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°	2670	2670	2670
5°	2649	2664	2645
10°	2651	2663	2643
15°	2647	2657	2641
20°	2647	2649	2628
25°	2641	2636	2612
30°	2630	2618	2593
35°	2616	2595	2570
40°	2601	2569	2543
45°	2569	2533	2506
50°	2536	2489	2460
55°	2472	2414	2391
60°	2376	2309	2289
65°	2225	2160	2136
70°	2006	1925	1910
75°	1682	1597	1579
80°	1221	1139	1106
85°	645	571	519

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2569 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	3.4
10°-20°	269.9	9.7
20°-30°	410.0	14.8
30°-40°	495.9	17.9
40°-50°	515.4	18.6
50°-60°	461.5	16.6
60°-70°	336.6	12.1
70°-80°	165.7	6.0
80°-90°	27.7	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°	773.8	27.9
0°-40°	1269.7	45.7
0°-60°	2246.6	80.9
0°-90°	2776.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2776.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	981	991	986	996	979	93
15°	950	959	954	962	948	268
25°	889	894	888	892	880	410
35°	796	798	790	793	782	499
45°	675	674	666	667	659	521
55°	527	522	514	513	510	470
65°	349	345	339	337	336	345
75°	162	159	154	152	152	172
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°	992.1	992.1	992.1	992.1	992.1
2.5°	983.4	994.5	989.2	999.0	981.4
5°	980.6	991.2	986.3	995.8	979.3
7.5°	975.6	986.7	981.4	990.4	974.8
10°	970.3	980.2	974.4	983.4	967.4
12.5°	960.9	970.7	965.4	973.6	958.8
15°	950.2	958.8	953.9	962.1	948.1
17.5°	937.9	946.1	940.7	948.1	934.2
20°	924.3	930.9	925.1	931.3	917.7
22.5°	907.5	913.6	907.5	911.6	899.7
25°	889.4	893.9	887.8	891.9	879.6
27.5°	870.1	872.6	866.4	869.7	857.0
30°	846.3	849.2	842.6	846.7	834.4
32.5°	823.3	824.9	817.5	820.8	809.7
35°	796.2	797.8	790.0	793.3	782.2
37.5°	770.3	769.9	761.7	763.8	754.3
40°	740.4	739.9	731.3	733.0	723.9
42.5°	709.6	707.9	699.7	700.5	692.3
45°	675.1	674.2	665.6	666.8	658.6
47.5°	641.8	639.3	630.7	631.1	624.1
50°	605.7	602.0	594.6	593.8	587.6
52.5°	567.1	563.0	554.7	553.9	549.4
55°	526.8	522.3	514.5	513.3	509.6
57.5°	485.4	479.6	473.4	471.0	468.1
60°	441.4	436.1	429.1	426.6	425.4
62.5°	395.8	390.5	385.2	382.7	381.1
65°	349.4	345.3	339.2	336.7	335.5
67.5°	302.2	298.5	292.8	289.9	289.5
70°	255.0	251.3	244.7	243.1	242.7
72.5°	207.8	204.5	198.3	196.7	196.7
75°	161.8	158.9	153.6	151.9	151.9
77.5°	118.3	115.8	111.7	109.6	109.6
80°	78.8	77.2	73.5	71.9	71.4
82.5°	45.6	44.8	41.5	39.8	40.7
85°	20.9	20.1	18.5	16.4	16.8
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)