

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: P973145

Luminaire Tested: FLR2-14-30HE-L835-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973145
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-L835-CA080
Description: 1*4 FLR-2.0 3500 Lumen High Efficacy at 3500CCT & 80CRI Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

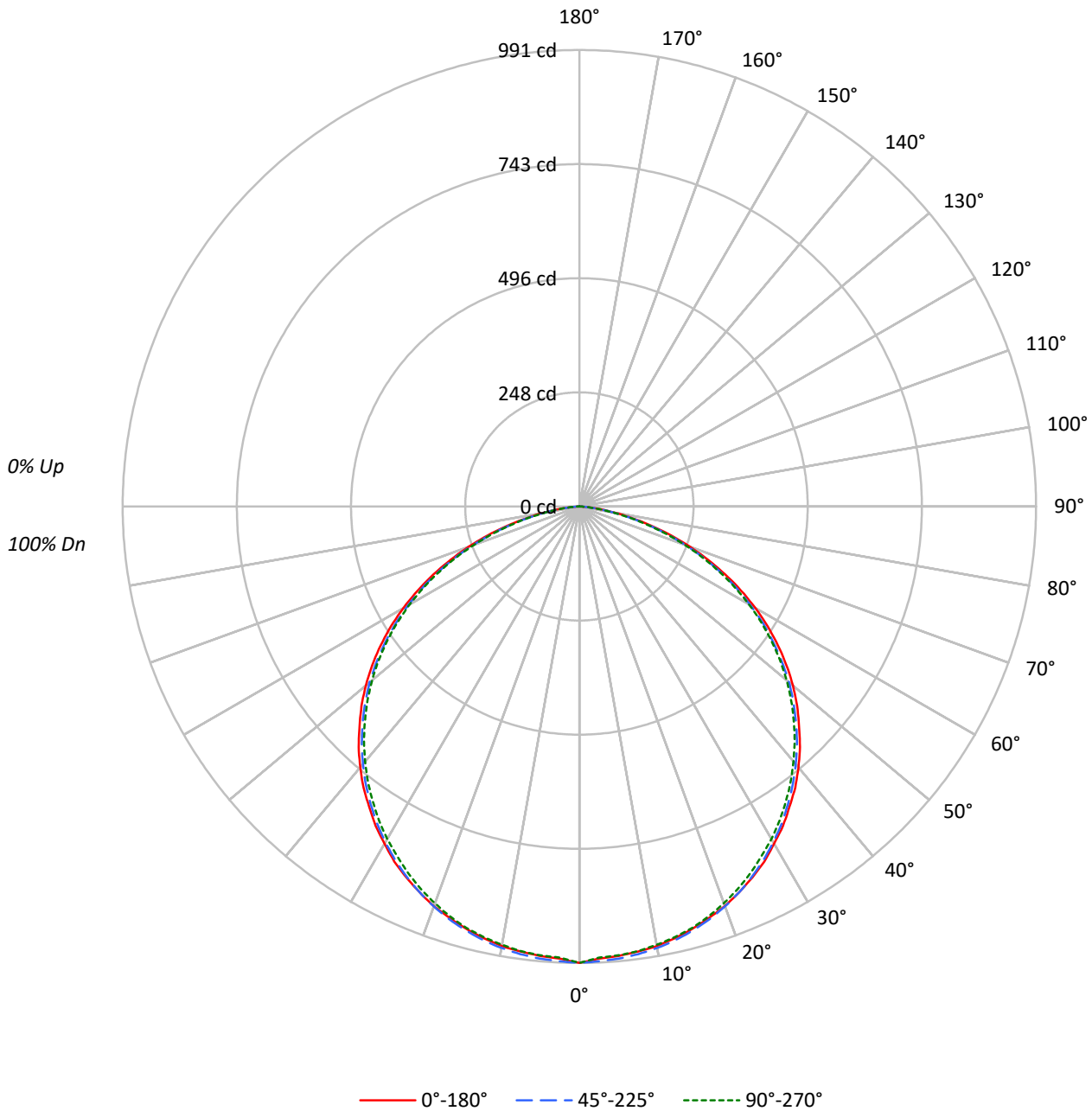
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2773.6 lumens
Efficiency: N/A
Efficacy: 123.8 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

TEST NUMBER: P973145
CATALOG NUMBER: FLR2-14-30HE-L835-CA080

Luminous Intensity Polar Plot





TEST NUMBER: P973145
 CATALOG NUMBER: FLR2-14-30HE-L835-CA080

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°	2667	2667	2667
5°	2646	2662	2643
10°	2649	2660	2641
15°	2644	2654	2639
20°	2644	2646	2625
25°	2638	2633	2609
30°	2627	2615	2590
35°	2613	2593	2567
40°	2598	2566	2540
45°	2566	2530	2504
50°	2533	2486	2457
55°	2469	2411	2388
60°	2373	2307	2287
65°	2223	2157	2134
70°	2004	1924	1907
75°	1680	1595	1578
80°	1221	1137	1106
85°	645	571	519

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2566 cd/sqm



TEST NUMBER: P973145
 CATALOG NUMBER: FLR2-14-30HE-L835-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.4
10°-20°	269.6	9.7
20°-30°	409.5	14.8
30°-40°	495.4	17.9
40°-50°	514.8	18.6
50°-60°	461.0	16.6
60°-70°	336.2	12.1
70°-80°	165.6	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°	773.0	27.9
0°-40°	1268.4	45.7
0°-60°	2244.2	80.9
0°-90°	2773.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2773.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	980	990	985	995	978	93
15°	949	958	953	961	947	268
25°	888	893	887	891	879	410
35°	795	797	789	792	781	498
45°	674	674	665	666	658	521
55°	526	522	514	513	509	470
65°	349	345	339	336	335	345
75°	162	159	153	152	152	172
85°	21	20	18	16	17	30
90°	0	0	0	0	0	



TEST NUMBER: P973145
 CATALOG NUMBER: FLR2-14-30HE-L835-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	991.0	991.0	991.0	991.0	991.0
2.5°	982.4	993.5	988.1	998.0	980.3
5°	979.5	990.2	985.3	994.7	978.3
7.5°	974.6	985.7	980.3	989.4	973.8
10°	969.3	979.1	973.4	982.4	966.4
12.5°	959.8	969.7	964.3	972.5	957.8
15°	949.2	957.8	952.8	961.0	947.1
17.5°	936.8	945.1	939.7	947.1	933.2
20°	923.3	929.9	924.1	930.3	916.8
22.5°	906.5	912.6	906.5	910.6	898.7
25°	888.4	893.0	886.8	890.9	878.6
27.5°	869.2	871.6	865.5	868.8	856.0
30°	845.4	848.3	841.7	845.8	833.5
32.5°	822.4	824.0	816.7	819.9	808.9
35°	795.3	797.0	789.2	792.5	781.4
37.5°	769.5	769.1	760.9	762.9	753.5
40°	739.6	739.1	730.5	732.2	723.1
42.5°	708.8	707.1	698.9	699.8	691.6
45°	674.3	673.5	664.9	666.1	657.9
47.5°	641.1	638.6	630.0	630.4	623.5
50°	605.0	601.3	593.9	593.1	587.0
52.5°	566.5	562.4	554.2	553.3	548.8
55°	526.3	521.7	514.0	512.7	509.0
57.5°	484.8	479.1	472.9	470.5	467.6
60°	440.9	435.6	428.6	426.2	424.9
62.5°	395.4	390.1	384.7	382.3	380.6
65°	349.1	345.0	338.8	336.3	335.1
67.5°	301.9	298.2	292.5	289.6	289.2
70°	254.7	251.0	244.5	242.8	242.4
72.5°	207.6	204.3	198.1	196.5	196.5
75°	161.6	158.7	153.4	151.8	151.8
77.5°	118.1	115.7	111.6	109.5	109.5
80°	78.8	77.1	73.4	71.8	71.4
82.5°	45.5	44.7	41.4	39.8	40.6
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)