

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: P973055

Luminaire Tested: FLR2-14-30HE-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973055
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-L830-CP125
Description: 1*4 FLR-2.0 3000 Lumen High Efficacy at 3000CCT & 80CRI Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

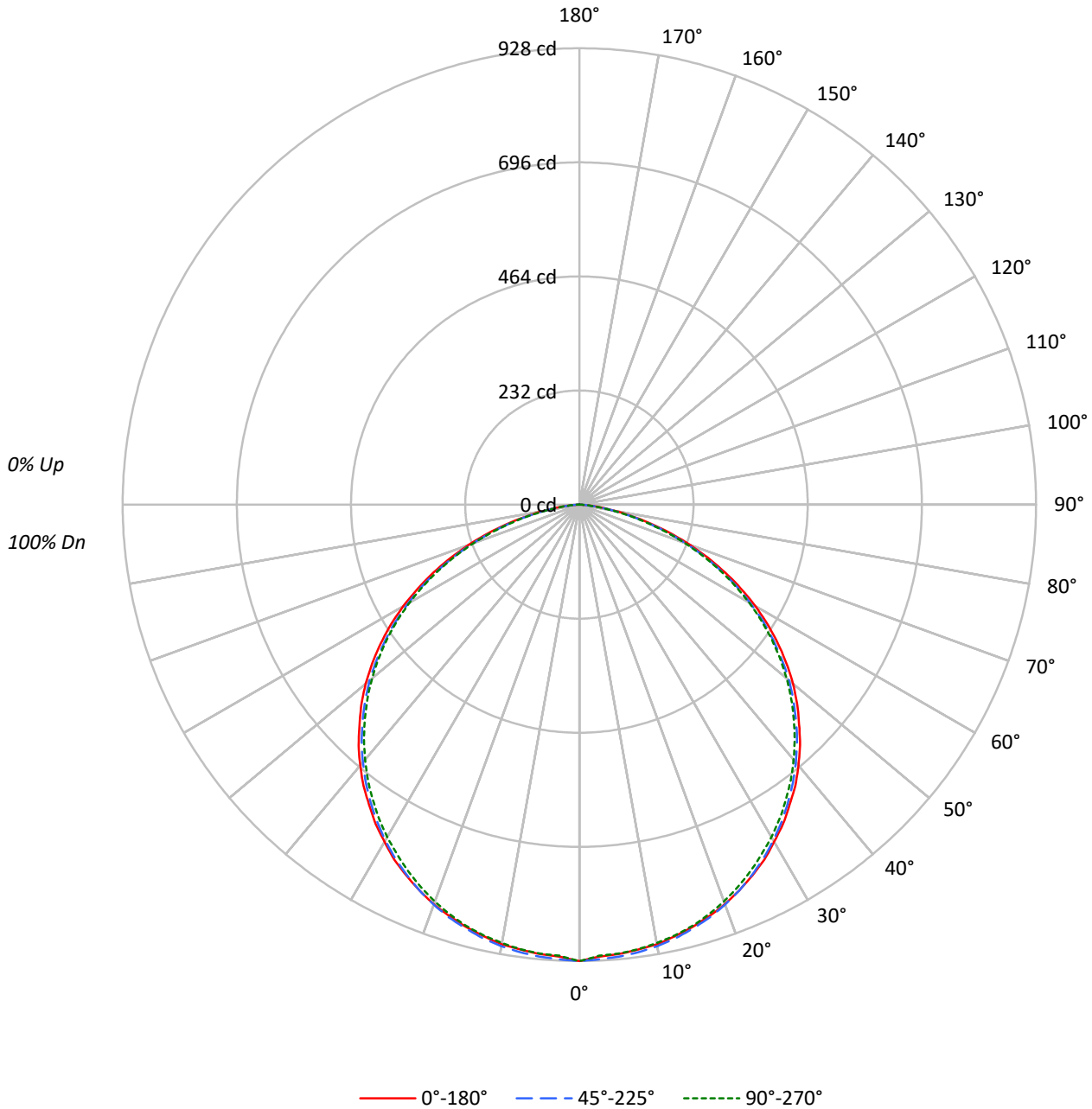
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2597.9 lumens
Efficiency: N/A
Efficacy: 116.0 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°	2498	2498	2498
5°	2478	2493	2475
10°	2481	2491	2473
15°	2477	2486	2471
20°	2477	2479	2459
25°	2471	2466	2443
30°	2460	2450	2426
35°	2447	2428	2404
40°	2433	2403	2379
45°	2404	2370	2345
50°	2372	2329	2302
55°	2312	2259	2237
60°	2223	2161	2142
65°	2082	2020	1999
70°	1877	1802	1787
75°	1574	1494	1477
80°	1144	1066	1035
85°	605	534	488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2404 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	3.4
10°-20°	252.5	9.7
20°-30°	383.6	14.8
30°-40°	464.0	17.9
40°-50°	482.2	18.6
50°-60°	431.8	16.6
60°-70°	314.9	12.1
70°-80°	155.1	6.0
80°-90°	25.9	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°	724.0	27.9
0°-40°	1188.0	45.7
0°-60°	2102.0	80.9
0°-90°	2597.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2597.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	917	927	923	932	916	87
15°	889	897	892	900	887	251
25°	832	836	831	834	823	384
35°	745	746	739	742	732	467
45°	632	631	623	624	616	488
55°	493	489	481	480	477	440
65°	327	323	317	315	314	323
75°	151	149	144	142	142	161
85°	20	19	17	15	16	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	928.2	928.2	928.2	928.2	928.2
2.5°	920.1	930.5	925.5	934.7	918.2
5°	917.4	927.4	922.8	931.7	916.3
7.5°	912.8	923.2	918.2	926.7	912.1
10°	907.8	917.1	911.7	920.1	905.1
12.5°	899.0	908.2	903.2	910.9	897.1
15°	889.0	897.1	892.5	900.1	887.1
17.5°	877.5	885.2	880.2	887.1	874.0
20°	864.8	871.0	865.6	871.3	858.7
22.5°	849.1	854.8	849.1	852.9	841.8
25°	832.1	836.4	830.6	834.5	822.9
27.5°	814.1	816.4	810.6	813.7	801.8
30°	791.8	794.5	788.4	792.2	780.7
32.5°	770.3	771.8	764.9	768.0	757.6
35°	744.9	746.5	739.2	742.2	731.9
37.5°	720.7	720.3	712.7	714.6	705.8
40°	692.7	692.3	684.2	685.8	677.3
42.5°	663.9	662.3	654.7	655.4	647.7
45°	631.6	630.8	622.8	623.9	616.2
47.5°	600.5	598.2	590.1	590.5	584.0
50°	566.7	563.2	556.3	555.5	549.8
52.5°	530.6	526.7	519.0	518.3	514.0
55°	492.9	488.7	481.4	480.2	476.8
57.5°	454.1	448.7	443.0	440.7	438.0
60°	413.0	408.0	401.5	399.2	398.0
62.5°	370.4	365.4	360.4	358.1	356.5
65°	326.9	323.1	317.3	315.0	313.9
67.5°	282.8	279.3	273.9	271.2	270.9
70°	238.6	235.1	229.0	227.4	227.1
72.5°	194.4	191.3	185.6	184.0	184.0
75°	151.4	148.7	143.7	142.1	142.1
77.5°	110.6	108.3	104.5	102.6	102.6
80°	73.8	72.2	68.8	67.2	66.8
82.5°	42.6	41.9	38.8	37.3	38.0
85°	19.6	18.8	17.3	15.4	15.8
87.5°	5.0	4.6	3.5	2.7	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)