

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: P973075

Luminaire Tested: FLR2-14-30HE-L830-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973075
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-CA080
Description: 1*4 FLR-2.0 3000 Lumen High Efficacy at 3000CCT & 80CRI Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

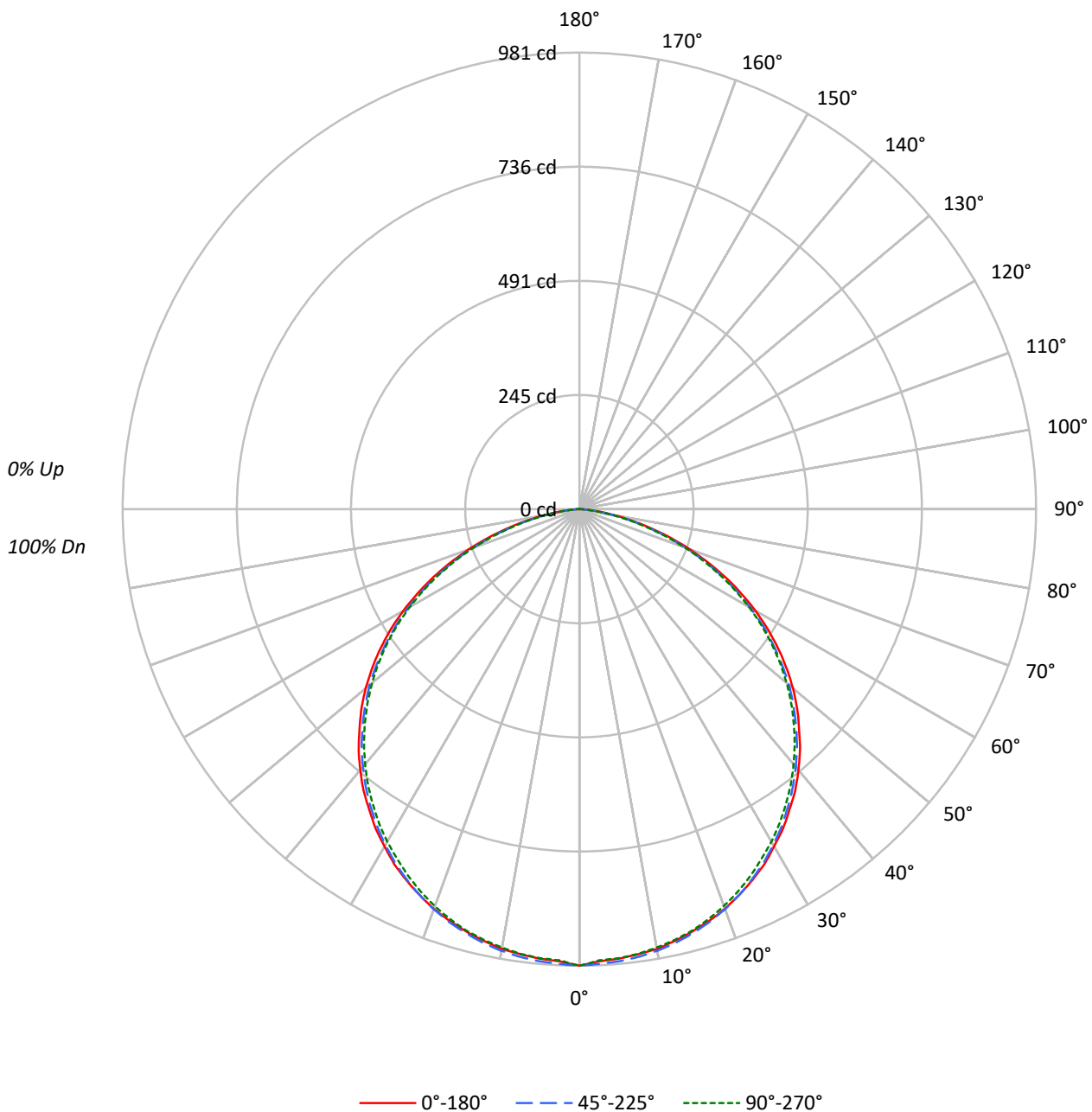
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2745.9 lumens
Efficiency: N/A
Efficacy: 122.6 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									
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	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°	2640	2640	2640
5°	2619	2635	2616
10°	2622	2633	2614
15°	2618	2628	2612
20°	2618	2620	2599
25°	2612	2607	2583
30°	2600	2589	2564
35°	2587	2567	2541
40°	2572	2540	2515
45°	2541	2505	2479
50°	2508	2462	2433
55°	2444	2387	2364
60°	2349	2284	2264
65°	2201	2136	2113
70°	1984	1904	1888
75°	1664	1579	1562
80°	1209	1127	1096
85°	639	565	513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2541 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	3.4
10°-20°	266.9	9.7
20°-30°	405.4	14.8
30°-40°	490.4	17.9
40°-50°	509.7	18.6
50°-60°	456.4	16.6
60°-70°	332.9	12.1
70°-80°	163.9	6.0
80°-90°	27.4	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°	765.2	27.9
0°-40°	1255.7	45.7
0°-60°	2221.7	80.9
0°-90°	2745.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2745.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	981	981	981	981	981	
5°	970	980	975	985	968	92
15°	940	948	943	951	938	265
25°	880	884	878	882	870	405
35°	787	789	781	784	774	493
45°	668	667	658	660	651	515
55°	521	516	509	508	504	465
65°	346	342	335	333	332	341
75°	160	157	152	150	150	171
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°	981.1	981.1	981.1	981.1	981.1
2.5°	972.6	983.5	978.2	988.0	970.5
5°	969.7	980.3	975.4	984.7	968.5
7.5°	964.8	975.8	970.5	979.5	964.0
10°	959.6	969.3	963.6	972.6	956.7
12.5°	950.2	960.0	954.7	962.8	948.2
15°	939.7	948.2	943.3	951.4	937.6
17.5°	927.5	935.6	930.3	937.6	923.8
20°	914.1	920.6	914.9	921.0	907.6
22.5°	897.4	903.5	897.4	901.5	889.7
25°	879.6	884.0	877.9	882.0	869.8
27.5°	860.5	862.9	856.8	860.1	847.5
30°	836.9	839.8	833.3	837.3	825.1
32.5°	814.2	815.8	808.5	811.7	800.8
35°	787.4	789.0	781.3	784.5	773.6
37.5°	761.8	761.4	753.3	755.3	746.0
40°	732.2	731.8	723.2	724.8	715.9
42.5°	701.7	700.1	692.0	692.8	684.6
45°	667.6	666.8	658.3	659.5	651.3
47.5°	634.7	632.3	623.7	624.1	617.2
50°	599.0	595.3	588.0	587.2	581.1
52.5°	560.8	556.7	548.6	547.8	543.3
55°	521.0	516.5	508.8	507.6	503.9
57.5°	480.0	474.3	468.2	465.8	462.9
60°	436.5	431.3	424.4	421.9	420.7
62.5°	391.5	386.2	380.9	378.5	376.8
65°	345.6	341.5	335.4	333.0	331.8
67.5°	298.9	295.2	289.5	286.7	286.3
70°	252.2	248.5	242.0	240.4	240.0
72.5°	205.5	202.2	196.1	194.5	194.5
75°	160.0	157.2	151.9	150.2	150.2
77.5°	117.0	114.5	110.5	108.4	108.4
80°	78.0	76.3	72.7	71.1	70.7
82.5°	45.1	44.3	41.0	39.4	40.2
85°	20.7	19.9	18.3	16.2	16.6
87.5°	5.3	4.9	3.7	2.8	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)