

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: P973215

Luminaire Tested: FLR2-14-30HE-L840-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973215
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-L840-CA080
Description: 1*4 FLR-2.0 4000 Lumen High Efficacy at 4000CCT & 80CRI Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

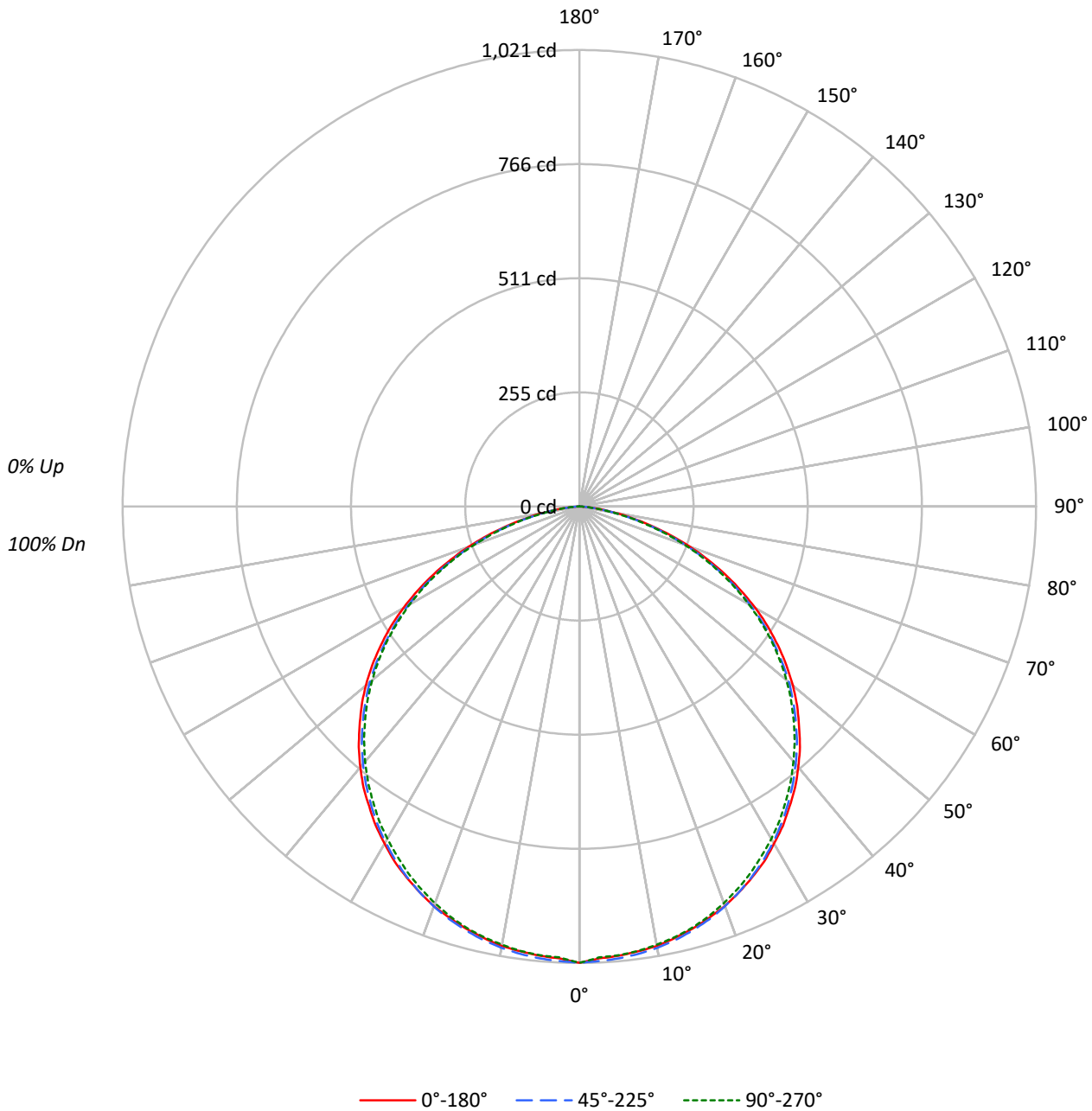
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2856.9 lumens
Efficiency: N/A
Efficacy: 127.5 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	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°	2747	2747	2747
5°	2725	2741	2722
10°	2728	2740	2720
15°	2724	2734	2718
20°	2723	2726	2704
25°	2717	2712	2687
30°	2706	2694	2668
35°	2691	2670	2644
40°	2676	2643	2616
45°	2643	2606	2579
50°	2609	2561	2531
55°	2543	2484	2460
60°	2444	2376	2356
65°	2289	2222	2198
70°	2065	1981	1965
75°	1731	1643	1625
80°	1257	1172	1139
85°	664	587	534

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2643 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.4
10°-20°	277.7	9.7
20°-30°	421.8	14.8
30°-40°	510.2	17.9
40°-50°	530.3	18.6
50°-60°	474.8	16.6
60°-70°	346.3	12.1
70°-80°	170.5	6.0
80°-90°	28.5	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°	796.1	27.9
0°-40°	1306.4	45.7
0°-60°	2311.5	80.9
0°-90°	2856.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2856.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1009	1020	1015	1024	1008	96
15°	978	986	981	990	976	276
25°	915	920	913	918	905	422
35°	819	821	813	816	805	513
45°	695	694	685	686	678	536
55°	542	537	529	528	524	484
65°	360	355	349	346	345	355
75°	166	164	158	156	156	177
85°	22	21	19	17	17	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.7	1020.7	1020.7	1020.7	1020.7
2.5°	1011.9	1023.3	1017.8	1027.9	1009.7
5°	1008.9	1019.9	1014.8	1024.5	1007.6
7.5°	1003.8	1015.2	1009.7	1019.0	1003.0
10°	998.3	1008.5	1002.6	1011.9	995.4
12.5°	988.6	998.8	993.3	1001.7	986.5
15°	977.6	986.5	981.4	989.9	975.5
17.5°	965.0	973.4	967.9	975.5	961.2
20°	951.0	957.8	951.9	958.2	944.3
22.5°	933.7	940.0	933.7	937.9	925.7
25°	915.1	919.7	913.4	917.6	905.0
27.5°	895.2	897.8	891.4	894.8	881.7
30°	870.7	873.7	866.9	871.2	858.5
32.5°	847.1	848.8	841.2	844.5	833.1
35°	819.2	820.9	812.9	816.2	804.8
37.5°	792.6	792.2	783.7	785.8	776.1
40°	761.7	761.3	752.4	754.1	744.8
42.5°	730.1	728.4	719.9	720.8	712.3
45°	694.6	693.7	684.8	686.1	677.7
47.5°	660.3	657.8	648.9	649.4	642.2
50°	623.2	619.4	611.8	610.9	604.6
52.5°	583.5	579.2	570.8	569.9	565.3
55°	542.0	537.4	529.4	528.1	524.3
57.5°	499.4	493.5	487.1	484.6	481.6
60°	454.2	448.7	441.5	439.0	437.7
62.5°	407.3	401.8	396.3	393.8	392.1
65°	359.5	355.3	349.0	346.4	345.2
67.5°	310.9	307.1	301.2	298.3	297.9
70°	262.4	258.6	251.8	250.1	249.7
72.5°	213.8	210.4	204.1	202.4	202.4
75°	166.5	163.5	158.0	156.3	156.3
77.5°	121.7	119.1	114.9	112.8	112.8
80°	81.1	79.4	75.6	73.9	73.5
82.5°	46.9	46.1	42.7	41.0	41.8
85°	21.5	20.7	19.0	16.9	17.3
87.5°	5.5	5.1	3.8	3.0	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)