

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: P973320

Luminaire Tested: FLR2-14-30HE-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973320
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-L950-CA080
Description: 1*4 FLR-2.0 5000 Lumen High Efficacy at 5000CCT & 80 CRI Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

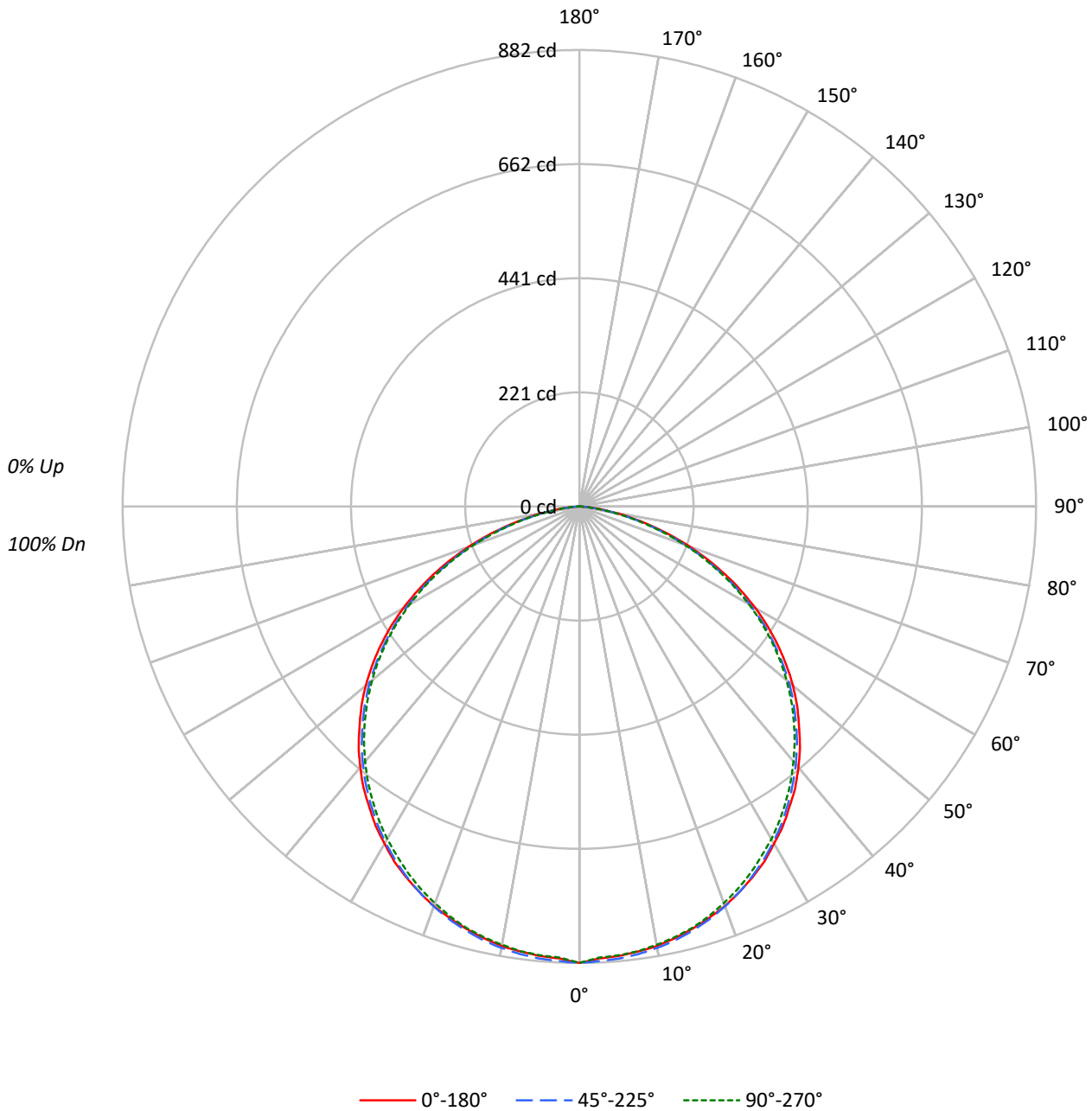
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2468.6 lumens
Efficiency: N/A
Efficacy: 110.2 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									70									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°	2373	2373	2373
5°	2355	2369	2352
10°	2357	2367	2350
15°	2353	2362	2348
20°	2353	2355	2336
25°	2348	2344	2322
30°	2338	2328	2305
35°	2326	2307	2284
40°	2312	2284	2261
45°	2284	2252	2229
50°	2254	2213	2187
55°	2198	2146	2125
60°	2112	2053	2035
65°	1978	1920	1899
70°	1784	1712	1698
75°	1495	1419	1405
80°	1086	1012	984
85°	574	506	463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2284 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	3.4
10°-20°	239.9	9.7
20°-30°	364.5	14.8
30°-40°	440.9	17.9
40°-50°	458.2	18.6
50°-60°	410.3	16.6
60°-70°	299.2	12.1
70°-80°	147.4	6.0
80°-90°	24.6	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°	687.9	27.9
0°-40°	1128.8	45.7
0°-60°	1997.3	80.9
0°-90°	2468.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2468.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	872	881	877	885	871	83
15°	845	852	848	855	843	239
25°	791	795	789	793	782	365
35°	708	709	702	705	695	443
45°	600	599	592	593	586	463
55°	468	464	457	456	453	418
65°	311	307	302	299	298	307
75°	144	141	136	135	135	153
85°	19	18	16	15	15	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.0	882.0	882.0	882.0	882.0
2.5°	874.3	884.2	879.4	888.2	872.5
5°	871.8	881.3	876.9	885.3	870.7
7.5°	867.4	877.2	872.5	880.5	866.7
10°	862.6	871.4	866.3	874.3	860.1
12.5°	854.2	863.0	858.3	865.6	852.4
15°	844.7	852.4	848.0	855.3	842.9
17.5°	833.8	841.1	836.4	842.9	830.5
20°	821.7	827.6	822.5	828.0	815.9
22.5°	806.8	812.3	806.8	810.4	799.8
25°	790.7	794.7	789.3	792.9	782.0
27.5°	773.6	775.8	770.3	773.2	761.9
30°	752.4	754.9	749.1	752.8	741.8
32.5°	731.9	733.4	726.8	729.8	719.9
35°	707.9	709.3	702.4	705.3	695.4
37.5°	684.9	684.5	677.2	679.0	670.6
40°	658.2	657.8	650.2	651.6	643.6
42.5°	630.8	629.4	622.1	622.8	615.5
45°	600.2	599.4	591.8	592.9	585.6
47.5°	570.6	568.4	560.7	561.1	554.9
50°	538.5	535.2	528.6	527.9	522.4
52.5°	504.1	500.5	493.2	492.5	488.4
55°	468.4	464.4	457.4	456.3	453.0
57.5°	431.5	426.4	420.9	418.7	416.2
60°	392.4	387.7	381.5	379.3	378.2
62.5°	351.9	347.2	342.4	340.2	338.8
65°	310.7	307.0	301.5	299.3	298.3
67.5°	268.7	265.4	260.3	257.7	257.4
70°	226.7	223.4	217.6	216.1	215.8
72.5°	184.7	181.8	176.3	174.9	174.9
75°	143.8	141.3	136.5	135.1	135.1
77.5°	105.1	102.9	99.3	97.5	97.5
80°	70.1	68.6	65.3	63.9	63.5
82.5°	40.5	39.8	36.9	35.4	36.1
85°	18.6	17.9	16.4	14.6	15.0
87.5°	4.7	4.4	3.3	2.6	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)