

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: P973220

Luminaire Tested: FLR2-14-30HE-L840-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973220
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-CA125
Description: 1*4 FLR-2.0 4000 Lumen High Efficacy at 4000CCT & 80CRI Clear Aryalic (0.125" thickness)

Light Source:
Ballast/Driver: -

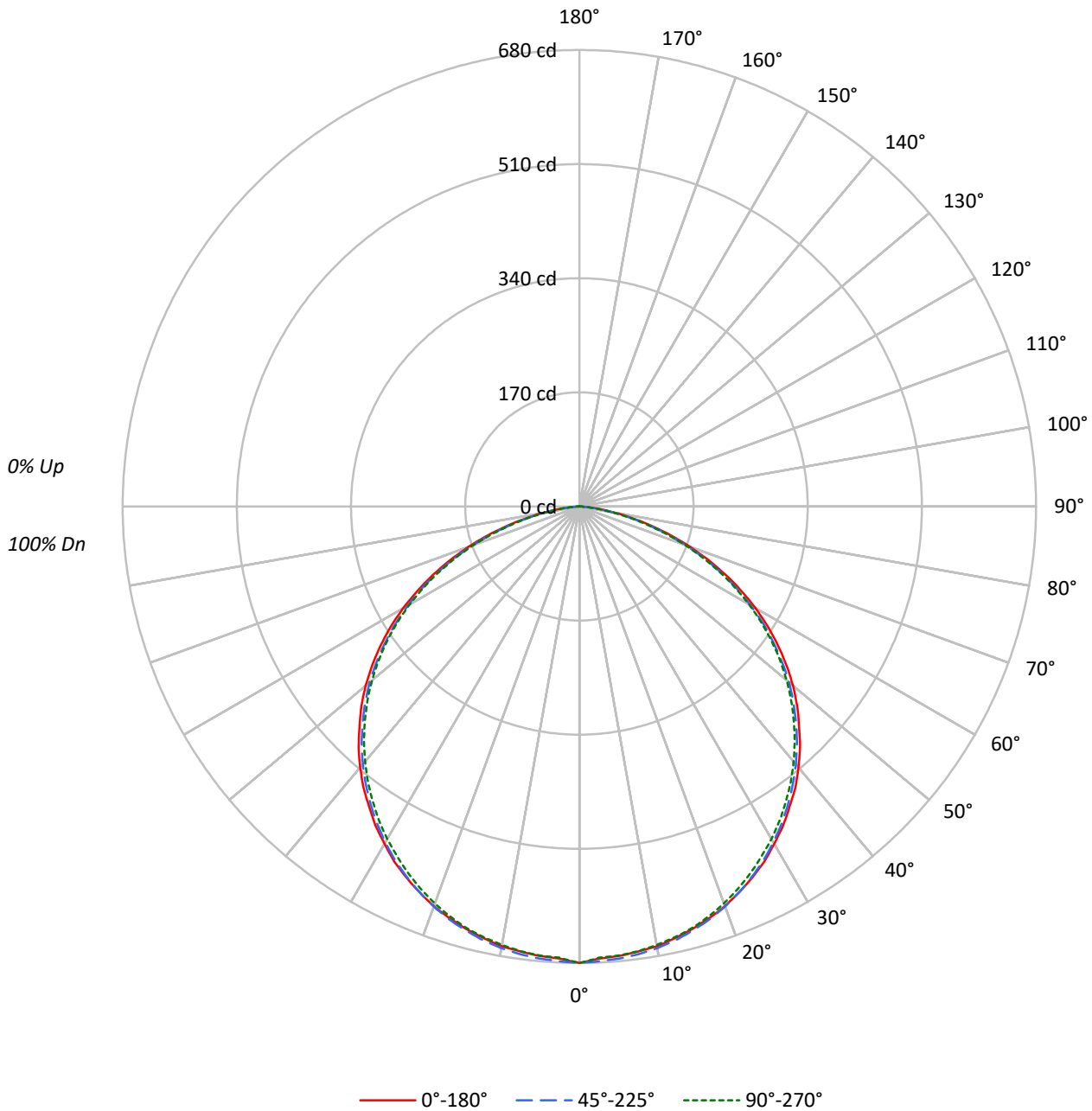
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1903.6 lumens
Efficiency: N/A
Efficacy: 85.0 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										
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°	1830	1830	1830
5°	1816	1827	1814
10°	1818	1825	1812
15°	1815	1822	1811
20°	1815	1816	1802
25°	1811	1807	1790
30°	1803	1795	1777
35°	1793	1779	1762
40°	1783	1761	1743
45°	1761	1737	1718
50°	1738	1706	1686
55°	1695	1655	1639
60°	1629	1583	1569
65°	1526	1480	1465
70°	1375	1320	1309
75°	1153	1095	1083
80°	837	781	759
85°	445	392	355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1761 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	3.4
10°-20°	185.0	9.7
20°-30°	281.1	14.8
30°-40°	340.0	17.9
40°-50°	353.4	18.6
50°-60°	316.4	16.6
60°-70°	230.8	12.1
70°-80°	113.6	6.0
80°-90°	19.0	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°	530.5	27.9
0°-40°	870.5	45.7
0°-60°	1540.2	80.9
0°-90°	1903.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1903.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	680	680	680	680	680	
5°	672	680	676	683	671	64
15°	651	657	654	660	650	184
25°	610	613	609	611	603	281
35°	546	547	542	544	536	342
45°	463	462	456	457	452	357
55°	361	358	353	352	349	322
65°	240	237	232	231	230	237
75°	111	109	105	104	104	118
85°	14	14	13	11	12	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.1	680.1	680.1	680.1	680.1
2.5°	674.2	681.8	678.2	684.9	672.8
5°	672.2	679.6	676.2	682.7	671.4
7.5°	668.9	676.5	672.8	679.0	668.3
10°	665.2	672.0	668.0	674.2	663.2
12.5°	658.7	665.5	661.8	667.5	657.3
15°	651.4	657.3	653.9	659.6	650.0
17.5°	643.0	648.6	644.9	650.0	640.4
20°	633.7	638.2	634.2	638.5	629.2
22.5°	622.1	626.4	622.1	625.0	616.8
25°	609.8	612.8	608.6	611.4	603.0
27.5°	596.5	598.2	594.0	596.2	587.5
30°	580.2	582.2	577.7	580.5	572.0
32.5°	564.4	565.6	560.5	562.7	555.1
35°	545.8	547.0	541.6	543.9	536.3
37.5°	528.1	527.8	522.2	523.6	517.1
40°	507.6	507.3	501.4	502.5	496.3
42.5°	486.4	485.3	479.7	480.3	474.6
45°	462.8	462.2	456.3	457.2	451.5
47.5°	440.0	438.3	432.4	432.7	427.9
50°	415.2	412.7	407.6	407.1	402.8
52.5°	388.8	386.0	380.3	379.8	376.7
55°	361.2	358.1	352.7	351.9	349.4
57.5°	332.7	328.8	324.6	322.9	320.9
60°	302.6	299.0	294.2	292.5	291.6
62.5°	271.4	267.7	264.1	262.4	261.2
65°	239.6	236.7	232.5	230.8	230.0
67.5°	207.2	204.7	200.7	198.7	198.5
70°	174.8	172.3	167.8	166.7	166.4
72.5°	142.4	140.2	136.0	134.8	134.8
75°	110.9	108.9	105.3	104.2	104.2
77.5°	81.1	79.4	76.6	75.2	75.2
80°	54.0	52.9	50.4	49.3	49.0
82.5°	31.2	30.7	28.4	27.3	27.9
85°	14.4	13.8	12.7	11.3	11.5
87.5°	3.7	3.4	2.5	2.0	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)