

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: P973255

Luminaire Tested: FLR2-14-30HE-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973255
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-L940-CA125
Description: 1*4 FLR-2.0 4000 Lumen High Efficacy at 4000CCT & 90 CRI Clear Aryalic (0.125" thickness)

Light Source:
Ballast/Driver: -

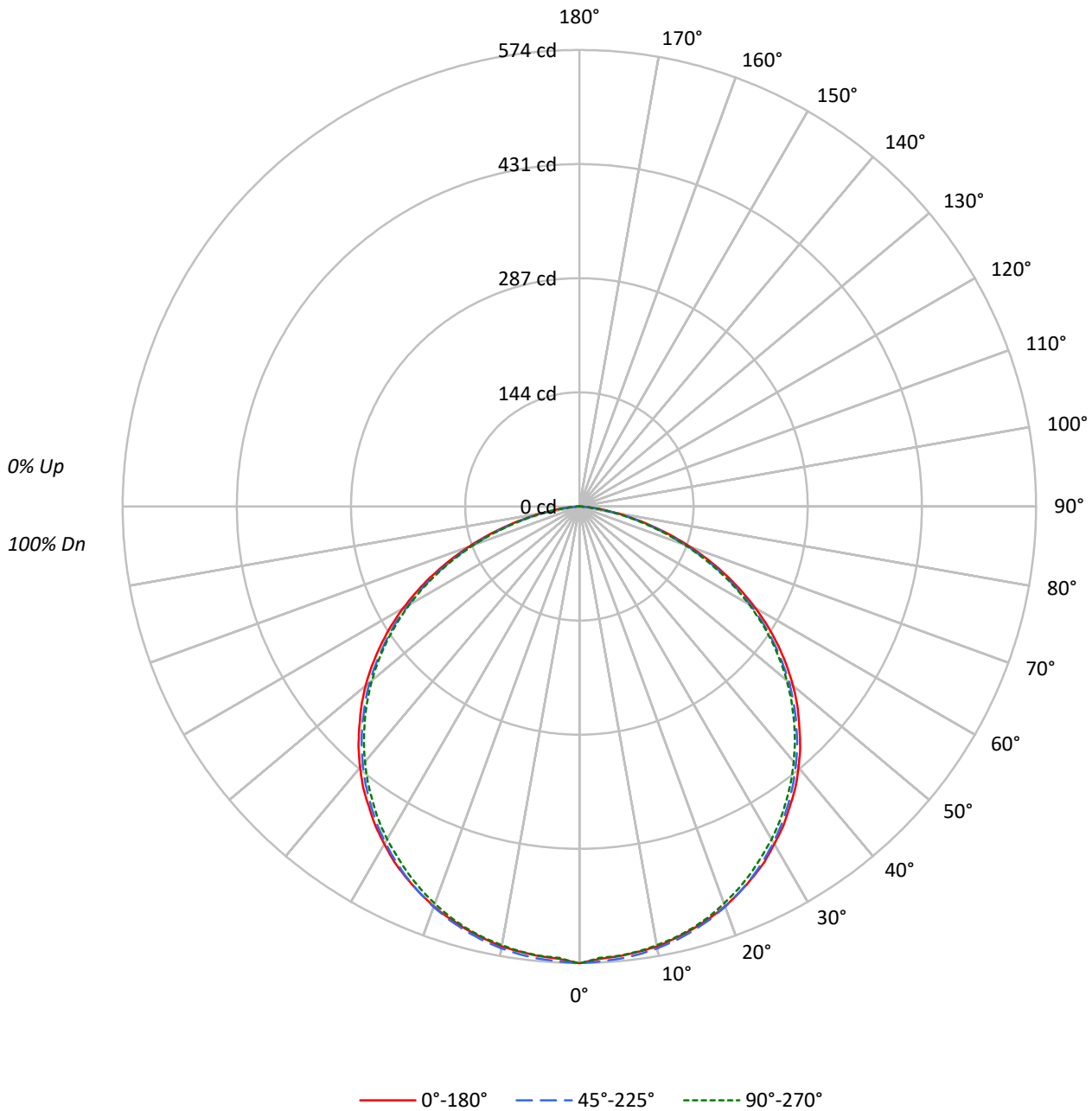
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1607.9 lumens
Efficiency: N/A
Efficacy: 71.8 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°	1546	1546	1546
5°	1534	1543	1532
10°	1535	1542	1531
15°	1533	1539	1529
20°	1533	1534	1522
25°	1529	1526	1512
30°	1523	1516	1501
35°	1515	1503	1488
40°	1506	1488	1473
45°	1488	1467	1451
50°	1468	1441	1425
55°	1431	1398	1384
60°	1376	1337	1326
65°	1289	1251	1237
70°	1162	1115	1105
75°	974	924	915
80°	708	660	642
85°	374	330	299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1488 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	3.4
10°-20°	156.3	9.7
20°-30°	237.4	14.8
30°-40°	287.2	17.9
40°-50°	298.5	18.6
50°-60°	267.2	16.6
60°-70°	194.9	12.1
70°-80°	96.0	6.0
80°-90°	16.1	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°	448.1	27.9
0°-40°	735.3	45.7
0°-60°	1300.9	80.9
0°-90°	1607.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1607.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	568	574	571	577	567	54
15°	550	555	552	557	549	155
25°	515	518	514	516	509	237
35°	461	462	458	459	453	289
45°	391	390	385	386	381	302
55°	305	302	298	297	295	272
65°	202	200	196	195	194	200
75°	94	92	89	88	88	100
85°	12	12	11	10	10	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	574.5	574.5	574.5	574.5	574.5
2.5°	569.5	575.9	572.8	578.5	568.3
5°	567.8	574.0	571.1	576.6	567.1
7.5°	565.0	571.4	568.3	573.5	564.5
10°	561.9	567.6	564.3	569.5	560.2
12.5°	556.4	562.1	559.0	563.8	555.2
15°	550.2	555.2	552.4	557.1	549.0
17.5°	543.1	547.8	544.8	549.0	541.0
20°	535.2	539.0	535.7	539.3	531.4
22.5°	525.5	529.1	525.5	527.9	521.0
25°	515.0	517.6	514.1	516.5	509.3
27.5°	503.9	505.3	501.7	503.6	496.2
30°	490.1	491.7	487.9	490.3	483.2
32.5°	476.7	477.7	473.4	475.3	468.9
35°	461.1	462.0	457.5	459.4	453.0
37.5°	446.1	445.8	441.1	442.3	436.8
40°	428.7	428.5	423.5	424.4	419.2
42.5°	410.9	409.9	405.2	405.7	400.9
45°	390.9	390.4	385.4	386.2	381.4
47.5°	371.7	370.2	365.2	365.5	361.4
50°	350.7	348.6	344.3	343.8	340.3
52.5°	328.4	326.0	321.2	320.8	318.2
55°	305.1	302.5	297.9	297.2	295.1
57.5°	281.1	277.7	274.2	272.7	271.1
60°	255.6	252.5	248.5	247.1	246.3
62.5°	229.2	226.1	223.0	221.6	220.7
65°	202.4	200.0	196.4	195.0	194.3
67.5°	175.0	172.9	169.5	167.9	167.6
70°	147.7	145.5	141.7	140.8	140.5
72.5°	120.3	118.4	114.8	113.9	113.9
75°	93.7	92.0	88.9	88.0	88.0
77.5°	68.5	67.1	64.7	63.5	63.5
80°	45.7	44.7	42.6	41.6	41.4
82.5°	26.4	25.9	24.0	23.1	23.5
85°	12.1	11.7	10.7	9.5	9.7
87.5°	3.1	2.9	2.1	1.7	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)