

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: P973325

Luminaire Tested: FLR2-14-30HE-L950-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973325
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-CA125
Description: 1*4 FLR-2.0 5000 Lumen High Efficacy at 5000CCT & 90 CRI Clear Aryalic (0.125" thickness)

Light Source:
Ballast/Driver: -

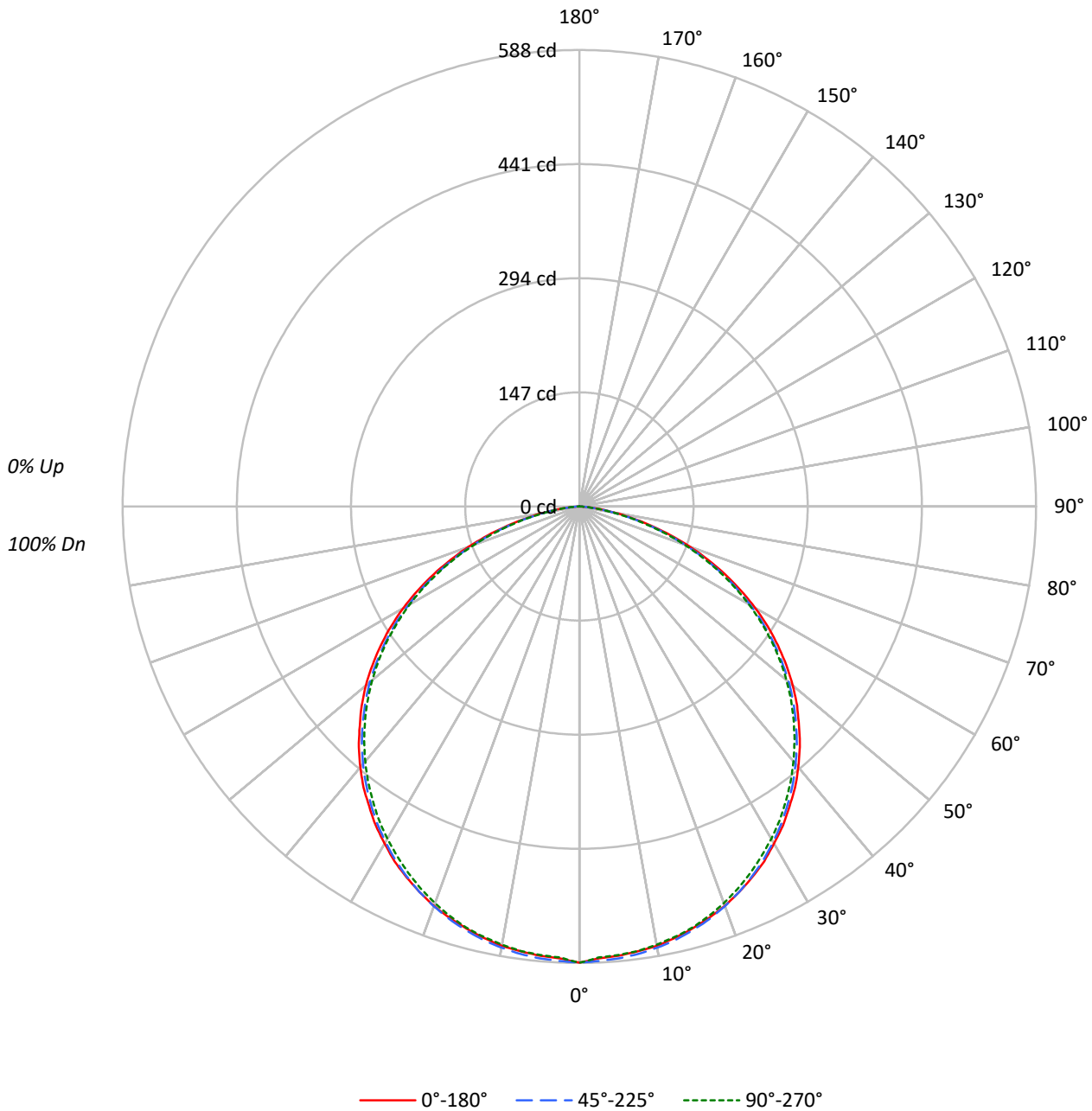
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1644.8 lumens
Efficiency: N/A
Efficacy: 73.4 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°	1581	1581	1581
5°	1569	1578	1567
10°	1571	1577	1566
15°	1568	1574	1565
20°	1568	1569	1557
25°	1564	1561	1547
30°	1558	1551	1536
35°	1550	1537	1522
40°	1541	1522	1506
45°	1522	1501	1485
50°	1502	1474	1457
55°	1464	1430	1416
60°	1407	1368	1356
65°	1318	1279	1265
70°	1189	1141	1131
75°	996	946	936
80°	724	674	656
85°	383	337	309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1522 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	3.4
10°-20°	159.9	9.7
20°-30°	242.9	14.8
30°-40°	293.8	17.9
40°-50°	305.3	18.6
50°-60°	273.4	16.6
60°-70°	199.4	12.1
70°-80°	98.2	6.0
80°-90°	16.4	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°	458.4	27.9
0°-40°	752.2	45.7
0°-60°	1330.8	80.9
0°-90°	1644.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1644.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	581	587	584	590	580	55
15°	563	568	565	570	562	159
25°	527	530	526	528	521	243
35°	472	473	468	470	463	295
45°	400	399	394	395	390	309
55°	312	309	305	304	302	279
65°	207	205	201	200	199	204
75°	96	94	91	90	90	102
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°	587.7	587.7	587.7	587.7	587.7
2.5°	582.6	589.1	586.0	591.8	581.4
5°	580.9	587.2	584.3	589.9	580.1
7.5°	578.0	584.5	581.4	586.7	577.5
10°	574.8	580.6	577.2	582.6	573.1
12.5°	569.2	575.0	571.9	576.7	568.0
15°	562.9	568.0	565.1	569.9	561.7
17.5°	555.6	560.4	557.3	561.7	553.4
20°	547.5	551.4	548.0	551.7	543.7
22.5°	537.6	541.2	537.6	540.0	533.0
25°	526.9	529.5	525.9	528.3	521.0
27.5°	515.4	516.9	513.3	515.2	507.7
30°	501.3	503.0	499.1	501.6	494.3
32.5°	487.7	488.7	484.3	486.2	479.7
35°	471.7	472.6	468.0	470.0	463.4
37.5°	456.3	456.1	451.2	452.4	446.8
40°	438.6	438.3	433.2	434.2	428.8
42.5°	420.3	419.4	414.5	415.0	410.1
45°	399.9	399.4	394.3	395.0	390.2
47.5°	380.2	378.7	373.6	373.9	369.7
50°	358.8	356.6	352.2	351.7	348.1
52.5°	335.9	333.5	328.6	328.1	325.5
55°	312.1	309.4	304.8	304.1	301.9
57.5°	287.5	284.1	280.5	279.0	277.3
60°	261.5	258.3	254.2	252.7	252.0
62.5°	234.5	231.3	228.2	226.7	225.7
65°	207.0	204.6	200.9	199.5	198.7
67.5°	179.0	176.8	173.4	171.7	171.5
70°	151.1	148.9	145.0	144.0	143.8
72.5°	123.1	121.1	117.5	116.5	116.5
75°	95.8	94.1	91.0	90.0	90.0
77.5°	70.1	68.6	66.2	64.9	64.9
80°	46.7	45.7	43.5	42.6	42.3
82.5°	27.0	26.5	24.6	23.6	24.1
85°	12.4	11.9	10.9	9.7	10.0
87.5°	3.2	2.9	2.2	1.7	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)