

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: P973185

Luminaire Tested: FLR2-14-30HE-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973185
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-L935-CA125
Description: 1*4 FLR-2.0 3500 Lumen High Efficacy at 3500CCT & 90 CRI Clear Aryalic (0.125" thickness)

Light Source:
Ballast/Driver: -

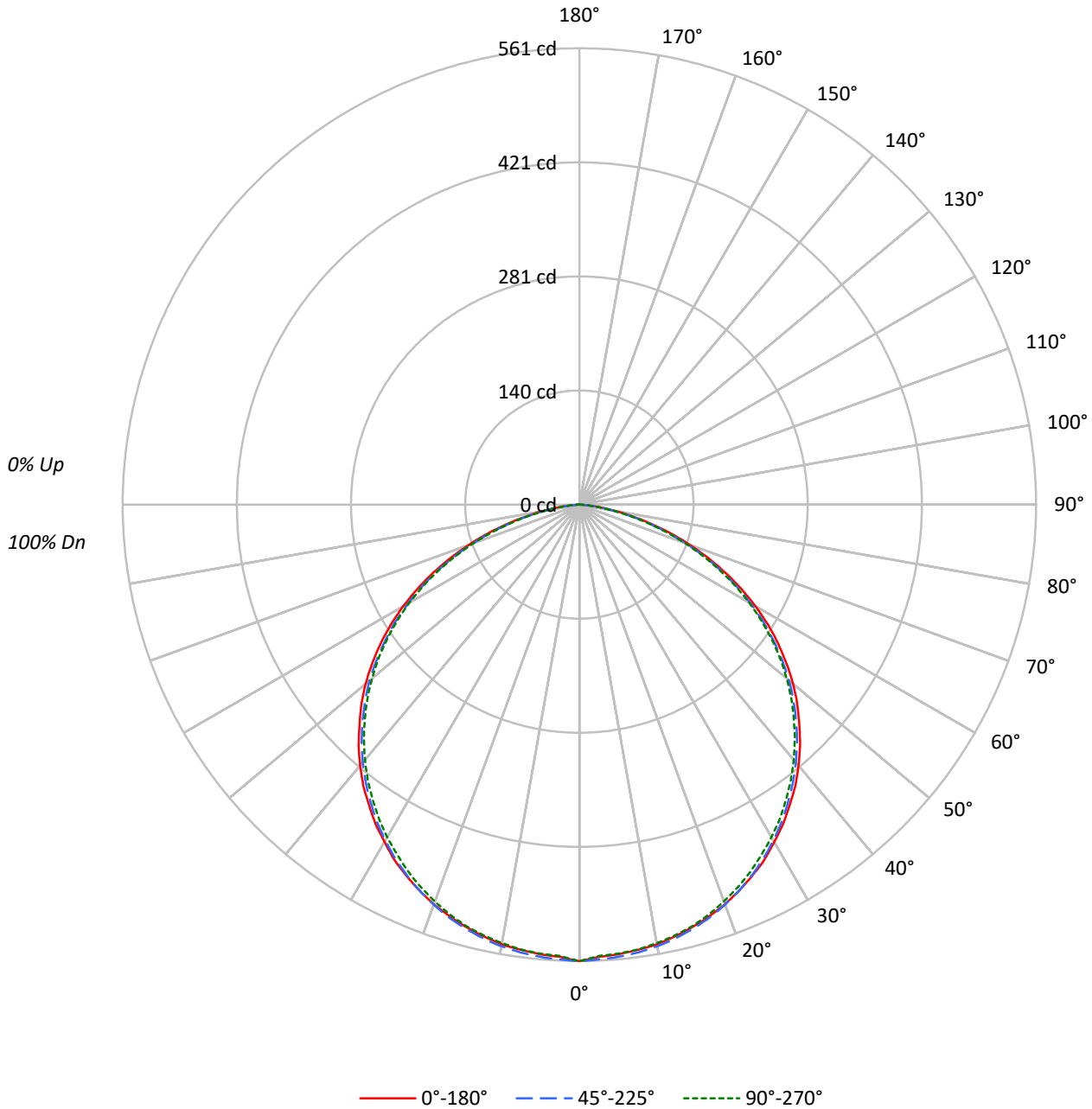
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1570.9 lumens
Efficiency: N/A
Efficacy: 70.1 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

TEST NUMBER: P973185
CATALOG NUMBER: FLR2-14-30HE-L935-CA125

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°	1510	1510	1510
5°	1499	1507	1497
10°	1500	1506	1495
15°	1498	1504	1494
20°	1497	1499	1487
25°	1494	1491	1477
30°	1488	1481	1467
35°	1480	1468	1454
40°	1472	1454	1439
45°	1453	1433	1418
50°	1435	1408	1392
55°	1399	1366	1353
60°	1344	1307	1295
65°	1259	1222	1209
70°	1135	1090	1080
75°	951	904	894
80°	691	645	626
85°	364	324	293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1453 cd/sqm



TEST NUMBER: P973185
 CATALOG NUMBER: FLR2-14-30HE-L935-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	3.4
10°-20°	152.7	9.7
20°-30°	231.9	14.8
30°-40°	280.6	17.9
40°-50°	291.6	18.6
50°-60°	261.1	16.6
60°-70°	190.4	12.1
70°-80°	93.8	6.0
80°-90°	15.7	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°	437.8	27.9
0°-40°	718.4	45.7
0°-60°	1271.0	80.9
0°-90°	1570.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1570.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	561	561	561	561	561	
5°	555	561	558	563	554	53
15°	538	542	540	544	536	152
25°	503	506	502	505	498	232
35°	450	451	447	449	443	282
45°	382	382	377	377	373	295
55°	298	296	291	290	288	266
65°	198	195	192	190	190	195
75°	92	90	87	86	86	98
85°	12	11	10	9	10	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	561.3	561.3	561.3	561.3	561.3
2.5°	556.4	562.7	559.6	565.2	555.2
5°	554.8	560.8	558.0	563.4	554.1
7.5°	552.0	558.3	555.2	560.3	551.5
10°	549.0	554.5	551.3	556.4	547.3
12.5°	543.6	549.2	546.2	550.8	542.5
15°	537.6	542.5	539.7	544.3	536.4
17.5°	530.6	535.3	532.2	536.4	528.5
20°	522.9	526.7	523.4	526.9	519.2
22.5°	513.4	516.9	513.4	515.7	509.0
25°	503.2	505.7	502.3	504.6	497.6
27.5°	492.3	493.7	490.2	492.0	484.8
30°	478.8	480.4	476.7	479.0	472.1
32.5°	465.8	466.7	462.5	464.4	458.1
35°	450.5	451.4	447.0	448.8	442.6
37.5°	435.8	435.6	430.9	432.1	426.8
40°	418.9	418.6	413.8	414.7	409.6
42.5°	401.4	400.5	395.9	396.3	391.7
45°	381.9	381.5	376.6	377.3	372.6
47.5°	363.1	361.7	356.8	357.1	353.1
50°	342.7	340.6	336.4	335.9	332.4
52.5°	320.8	318.5	313.9	313.4	310.8
55°	298.1	295.5	291.1	290.4	288.3
57.5°	274.6	271.3	267.9	266.5	264.8
60°	249.7	246.7	242.8	241.4	240.7
62.5°	224.0	220.9	217.9	216.5	215.6
65°	197.7	195.4	191.9	190.5	189.8
67.5°	171.0	168.9	165.6	164.0	163.8
70°	144.3	142.2	138.5	137.5	137.3
72.5°	117.6	115.7	112.2	111.3	111.3
75°	91.5	89.9	86.9	86.0	86.0
77.5°	66.9	65.5	63.2	62.0	62.0
80°	44.6	43.7	41.6	40.7	40.4
82.5°	25.8	25.3	23.5	22.5	23.0
85°	11.8	11.4	10.5	9.3	9.5
87.5°	3.0	2.8	2.1	1.6	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)