

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: P973152

Luminaire Tested: FLR2-14-70HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973152
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: FLR2-14-70HE-L835-CA125
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3500CCT & 80CRI Clear Aryalic (0.125" thickness)

Light Source:
Ballast/Driver: -

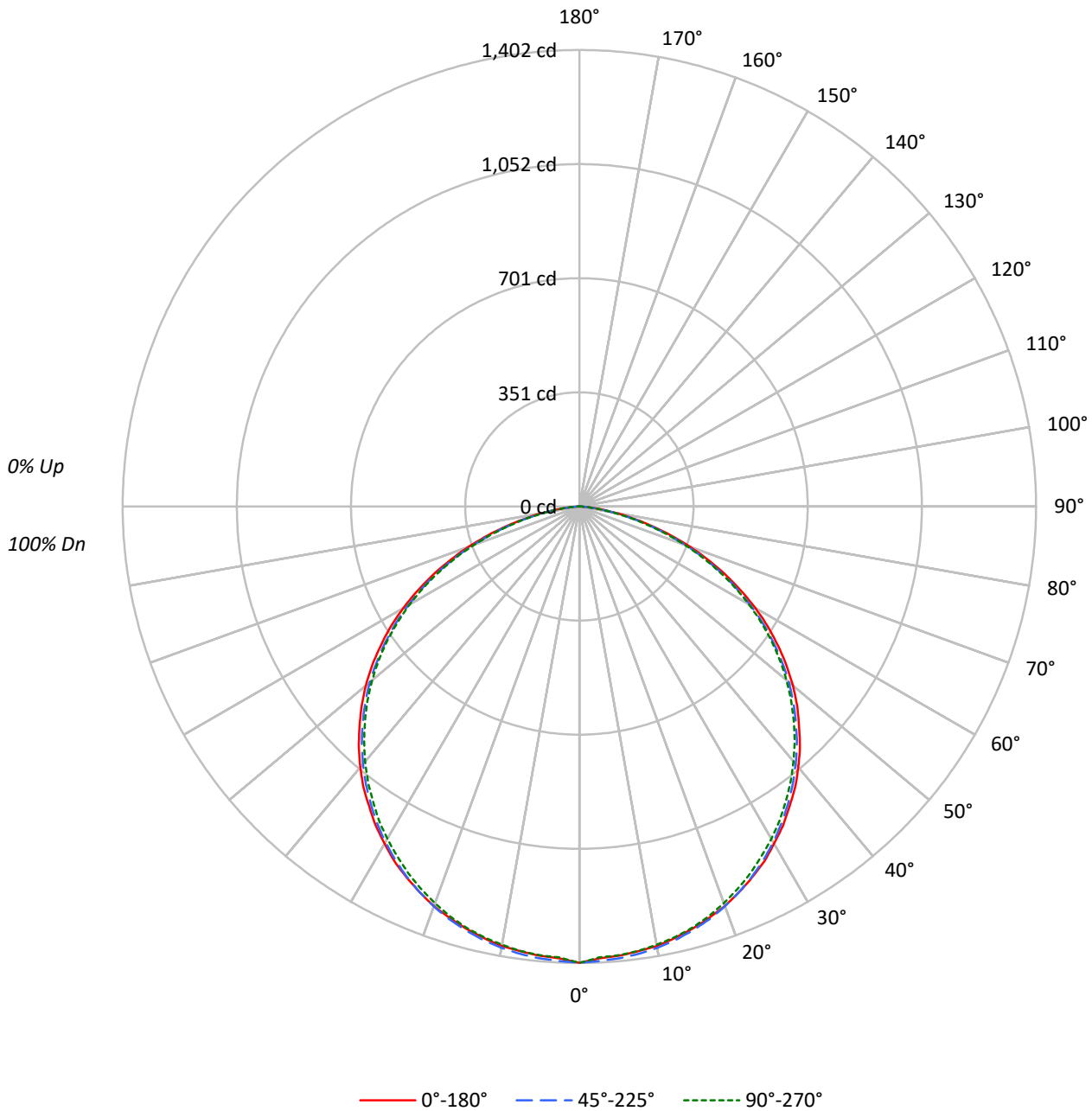
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3922.7 lumens
Efficiency: N/A
Efficacy: 74.7 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): 52.5
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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3772	3772	3772
5°	3742	3764	3737
10°	3746	3762	3734
15°	3740	3754	3732
20°	3739	3743	3713
25°	3731	3724	3689
30°	3715	3699	3663
35°	3695	3666	3630
40°	3674	3629	3593
45°	3629	3579	3541
50°	3582	3517	3475
55°	3492	3410	3377
60°	3356	3263	3235
65°	3144	3051	3018
70°	2834	2720	2697
75°	2377	2256	2231
80°	1726	1609	1564
85°	914	806	735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3629 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	3.4
10°-20°	381.2	9.7
20°-30°	579.2	14.8
30°-40°	700.6	17.9
40°-50°	728.2	18.6
50°-60°	651.9	16.6
60°-70°	475.5	12.1
70°-80°	234.2	6.0
80°-90°	39.2	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°	1093.2	27.9
0°-40°	1793.8	45.7
0°-60°	3173.9	80.9
0°-90°	3922.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3922.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1402	1402	1402	1402	1402	
5°	1385	1400	1393	1407	1384	132
15°	1342	1355	1348	1359	1340	379
25°	1256	1263	1254	1260	1243	579
35°	1125	1127	1116	1121	1105	704
45°	954	952	940	942	930	736
55°	744	738	727	725	720	664
65°	494	488	479	476	474	488
75°	229	224	217	215	215	244
85°	30	28	26	23	24	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1401.6	1401.6	1401.6	1401.6	1401.6
2.5°	1389.4	1405.0	1397.5	1411.4	1386.5
5°	1385.3	1400.4	1393.4	1406.8	1383.6
7.5°	1378.3	1394.0	1386.5	1399.2	1377.2
10°	1370.8	1384.7	1376.6	1389.4	1366.7
12.5°	1357.5	1371.4	1363.8	1375.4	1354.6
15°	1342.4	1354.6	1347.6	1359.2	1339.5
17.5°	1325.0	1336.6	1329.0	1339.5	1319.8
20°	1305.8	1315.1	1307.0	1315.7	1296.5
22.5°	1282.0	1290.7	1282.0	1287.8	1271.0
25°	1256.5	1262.9	1254.2	1260.0	1242.6
27.5°	1229.3	1232.7	1224.0	1228.7	1210.7
30°	1195.6	1199.7	1190.4	1196.2	1178.8
32.5°	1163.1	1165.4	1155.0	1159.6	1144.0
35°	1124.8	1127.2	1116.1	1120.8	1105.1
37.5°	1088.3	1087.7	1076.1	1079.0	1065.7
40°	1045.9	1045.4	1033.2	1035.5	1022.7
42.5°	1002.4	1000.1	988.5	989.7	978.1
45°	953.7	952.5	940.4	942.1	930.5
47.5°	906.7	903.2	891.1	891.6	881.8
50°	855.7	850.4	840.0	838.8	830.1
52.5°	801.1	795.3	783.7	782.6	776.2
55°	744.3	737.9	726.9	725.1	719.9
57.5°	685.7	677.6	668.9	665.4	661.3
60°	623.6	616.1	606.2	602.7	601.0
62.5°	559.2	551.7	544.1	540.7	538.3
65°	493.7	487.9	479.2	475.7	474.0
67.5°	427.0	421.7	413.6	409.6	409.0
70°	360.2	355.0	345.7	343.4	342.8
72.5°	293.5	288.9	280.2	277.9	277.9
75°	228.6	224.5	217.0	214.6	214.6
77.5°	167.1	163.6	157.8	154.9	154.9
80°	111.4	109.1	103.8	101.5	100.9
82.5°	64.4	63.2	58.6	56.3	57.4
85°	29.6	28.4	26.1	23.2	23.8
87.5°	7.5	7.0	5.2	4.1	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)