

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: P973107

Luminaire Tested: FLR2-14-70HE-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973107
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-L930-CP375
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3000CCT & 90 CRI Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

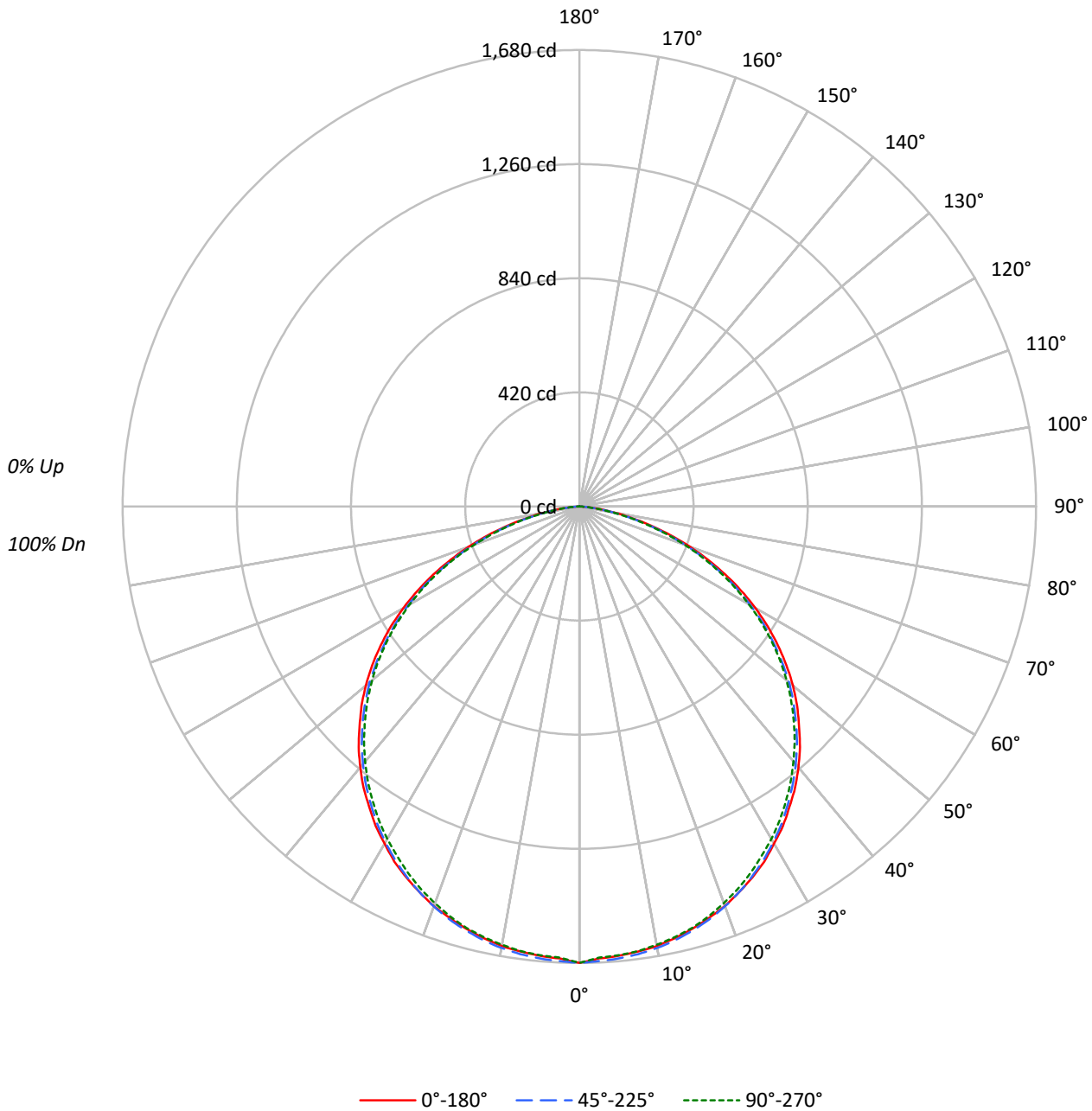
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4701.7 lumens
Efficiency: N/A
Efficacy: 89.6 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									
RC	80									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°	4521	4521	4521
5°	4485	4511	4479
10°	4489	4509	4476
15°	4483	4500	4473
20°	4482	4486	4450
25°	4472	4464	4422
30°	4453	4433	4390
35°	4429	4395	4351
40°	4404	4350	4306
45°	4350	4289	4244
50°	4294	4215	4165
55°	4185	4087	4048
60°	4023	3911	3877
65°	3768	3657	3617
70°	3397	3260	3233
75°	2849	2703	2675
80°	2069	1929	1875
85°	1096	966	880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4350 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	3.4
10°-20°	457.0	9.7
20°-30°	694.2	14.8
30°-40°	839.8	17.9
40°-50°	872.8	18.6
50°-60°	781.4	16.6
60°-70°	569.9	12.1
70°-80°	280.7	6.0
80°-90°	46.9	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°	1310.3	27.9
0°-40°	2150.0	45.7
0°-60°	3804.2	80.9
0°-90°	4701.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4701.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1680	1680	1680	1680	1680	
5°	1660	1678	1670	1686	1658	158
15°	1609	1624	1615	1629	1606	454
25°	1506	1514	1503	1510	1489	694
35°	1348	1351	1338	1343	1325	844
45°	1143	1142	1127	1129	1115	883
55°	892	884	871	869	863	796
65°	592	585	574	570	568	585
75°	274	269	260	257	257	292
85°	36	34	31	28	28	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1679.9	1679.9	1679.9	1679.9	1679.9
2.5°	1665.3	1684.1	1675.0	1691.7	1661.8
5°	1660.4	1678.5	1670.1	1686.1	1658.3
7.5°	1652.1	1670.8	1661.8	1677.1	1650.7
10°	1643.0	1659.7	1650.0	1665.3	1638.2
12.5°	1627.0	1643.7	1634.7	1648.6	1623.6
15°	1609.0	1623.6	1615.2	1629.1	1605.5
17.5°	1588.1	1602.0	1593.0	1605.5	1581.8
20°	1565.2	1576.3	1566.5	1577.0	1554.0
22.5°	1536.6	1547.1	1536.6	1543.6	1523.4
25°	1506.1	1513.7	1503.3	1510.2	1489.4
27.5°	1473.4	1477.5	1467.1	1472.7	1451.1
30°	1433.0	1437.9	1426.8	1433.7	1412.9
32.5°	1394.1	1396.9	1384.4	1389.9	1371.2
35°	1348.2	1351.0	1337.8	1343.3	1324.6
37.5°	1304.4	1303.7	1289.8	1293.3	1277.3
40°	1253.7	1253.0	1238.4	1241.1	1225.8
42.5°	1201.5	1198.7	1184.8	1186.2	1172.3
45°	1143.1	1141.7	1127.1	1129.2	1115.3
47.5°	1086.8	1082.6	1068.0	1068.7	1056.9
50°	1025.6	1019.3	1006.8	1005.4	995.0
52.5°	960.2	953.3	939.4	938.0	930.3
55°	892.1	884.4	871.2	869.1	862.9
57.5°	821.9	812.1	801.7	797.5	792.7
60°	747.5	738.4	726.6	722.4	720.3
62.5°	670.3	661.2	652.2	648.0	645.3
65°	591.7	584.8	574.3	570.2	568.1
67.5°	511.8	505.5	495.8	490.9	490.2
70°	431.8	425.5	414.4	411.6	410.9
72.5°	351.8	346.3	335.8	333.1	333.1
75°	274.0	269.1	260.0	257.3	257.3
77.5°	200.3	196.1	189.1	185.6	185.6
80°	133.5	130.7	124.5	121.7	121.0
82.5°	77.2	75.8	70.2	67.4	68.8
85°	35.5	34.1	31.3	27.8	28.5
87.5°	9.0	8.3	6.3	4.9	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)