

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: P973102

Luminaire Tested: FLR2-14-70HE-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973102
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-CP250
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3000CCT & 90 CRI Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

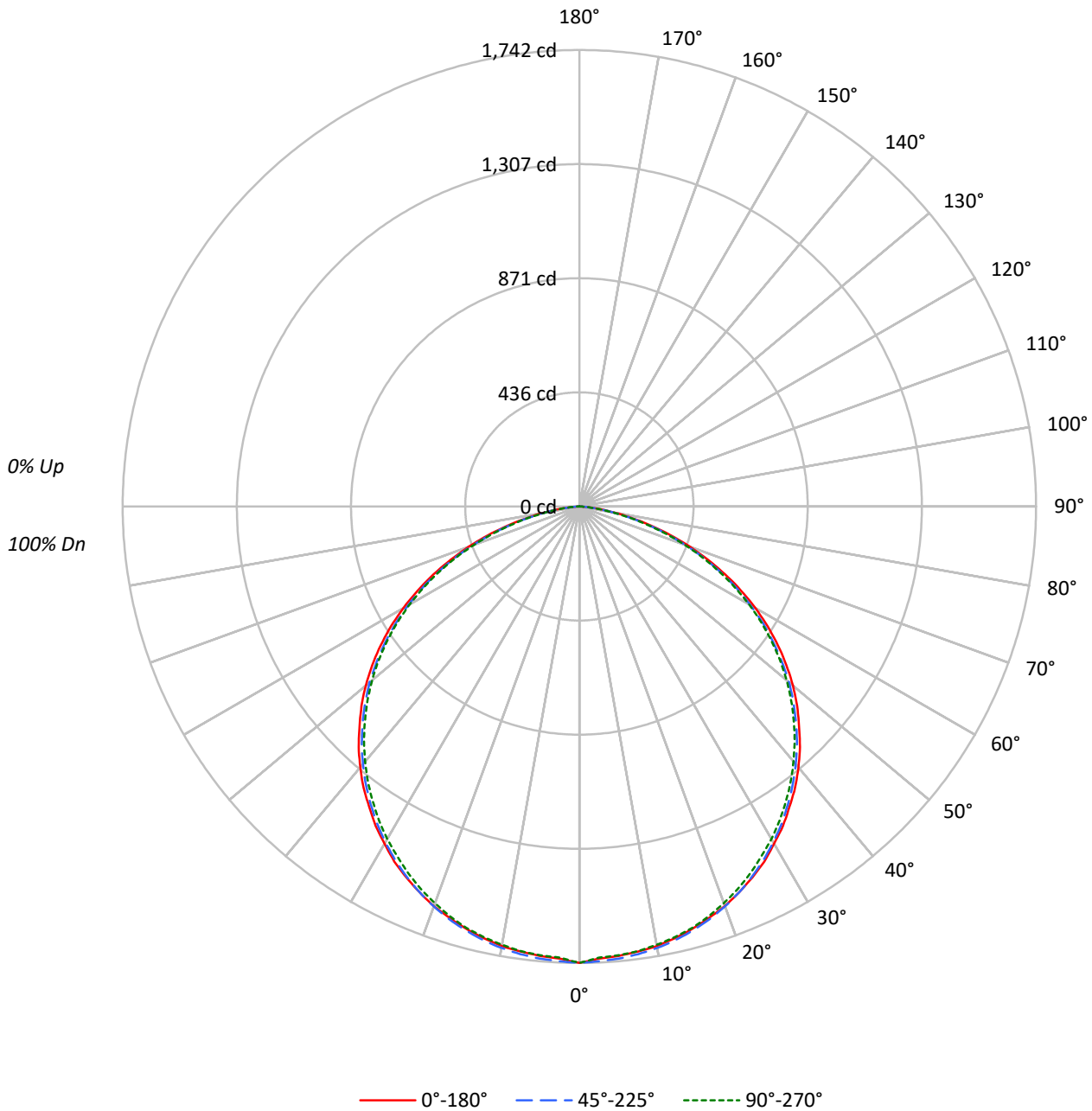
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4875.6 lumens
Efficiency: N/A
Efficacy: 92.9 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									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°	4688	4688	4688
5°	4651	4678	4645
10°	4656	4675	4642
15°	4648	4666	4638
20°	4648	4652	4615
25°	4637	4629	4586
30°	4617	4597	4552
35°	4593	4557	4512
40°	4567	4511	4466
45°	4511	4448	4401
50°	4452	4371	4320
55°	4340	4238	4198
60°	4172	4055	4020
65°	3907	3792	3751
70°	3523	3381	3353
75°	2954	2804	2774
80°	2145	2001	1945
85°	1136	1000	914

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4511 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	3.4
10°-20°	473.8	9.7
20°-30°	719.9	14.8
30°-40°	870.8	17.9
40°-50°	905.0	18.6
50°-60°	810.3	16.6
60°-70°	591.0	12.1
70°-80°	291.0	6.0
80°-90°	48.7	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°	1358.7	27.9
0°-40°	2229.6	45.7
0°-60°	3944.9	80.9
0°-90°	4875.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4875.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1722	1741	1732	1748	1720	164
15°	1668	1684	1675	1689	1665	471
25°	1562	1570	1559	1566	1544	720
35°	1398	1401	1387	1393	1374	876
45°	1185	1184	1169	1171	1156	915
55°	925	917	903	901	895	826
65°	614	606	596	591	589	606
75°	284	279	270	267	267	303
85°	37	35	32	29	30	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1742.0	1742.0	1742.0	1742.0	1742.0
2.5°	1726.9	1746.3	1737.0	1754.3	1723.3
5°	1721.8	1740.6	1731.9	1748.5	1719.6
7.5°	1713.2	1732.6	1723.3	1739.1	1711.7
10°	1703.8	1721.1	1711.0	1726.9	1698.7
12.5°	1687.2	1704.5	1695.1	1709.6	1683.6
15°	1668.5	1683.6	1674.9	1689.4	1664.8
17.5°	1646.8	1661.2	1651.9	1664.8	1640.3
20°	1623.0	1634.6	1624.5	1635.3	1611.5
22.5°	1593.5	1604.3	1593.5	1600.7	1579.8
25°	1561.7	1569.7	1558.9	1566.1	1544.4
27.5°	1527.9	1532.2	1521.4	1527.1	1504.8
30°	1486.0	1491.1	1479.5	1486.8	1465.1
32.5°	1445.7	1448.5	1435.6	1441.3	1421.9
35°	1398.1	1401.0	1387.3	1393.0	1373.6
37.5°	1352.6	1351.9	1337.5	1341.1	1324.5
40°	1300.0	1299.3	1284.1	1287.0	1271.2
42.5°	1245.9	1243.0	1228.6	1230.1	1215.6
45°	1185.4	1183.9	1168.8	1170.9	1156.5
47.5°	1127.0	1122.6	1107.5	1108.2	1096.0
50°	1063.5	1057.0	1044.0	1042.6	1031.8
52.5°	995.7	988.5	974.1	972.7	964.7
55°	925.1	917.1	903.4	901.3	894.8
57.5°	852.3	842.2	831.3	827.0	822.0
60°	775.1	765.7	753.5	749.1	747.0
62.5°	695.1	685.7	676.3	672.0	669.1
65°	613.6	606.4	595.6	591.2	589.1
67.5°	530.7	524.2	514.1	509.0	508.3
70°	447.8	441.3	429.7	426.8	426.1
72.5°	364.8	359.1	348.3	345.4	345.4
75°	284.1	279.0	269.7	266.8	266.8
77.5°	207.7	203.3	196.1	192.5	192.5
80°	138.4	135.6	129.1	126.2	125.5
82.5°	80.0	78.6	72.8	69.9	71.4
85°	36.8	35.3	32.4	28.8	29.6
87.5°	9.4	8.7	6.5	5.0	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)