

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: P973092

Luminaire Tested: FLR2-14-70HE-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973092
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-CP125
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3000CCT & 90 CRI Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

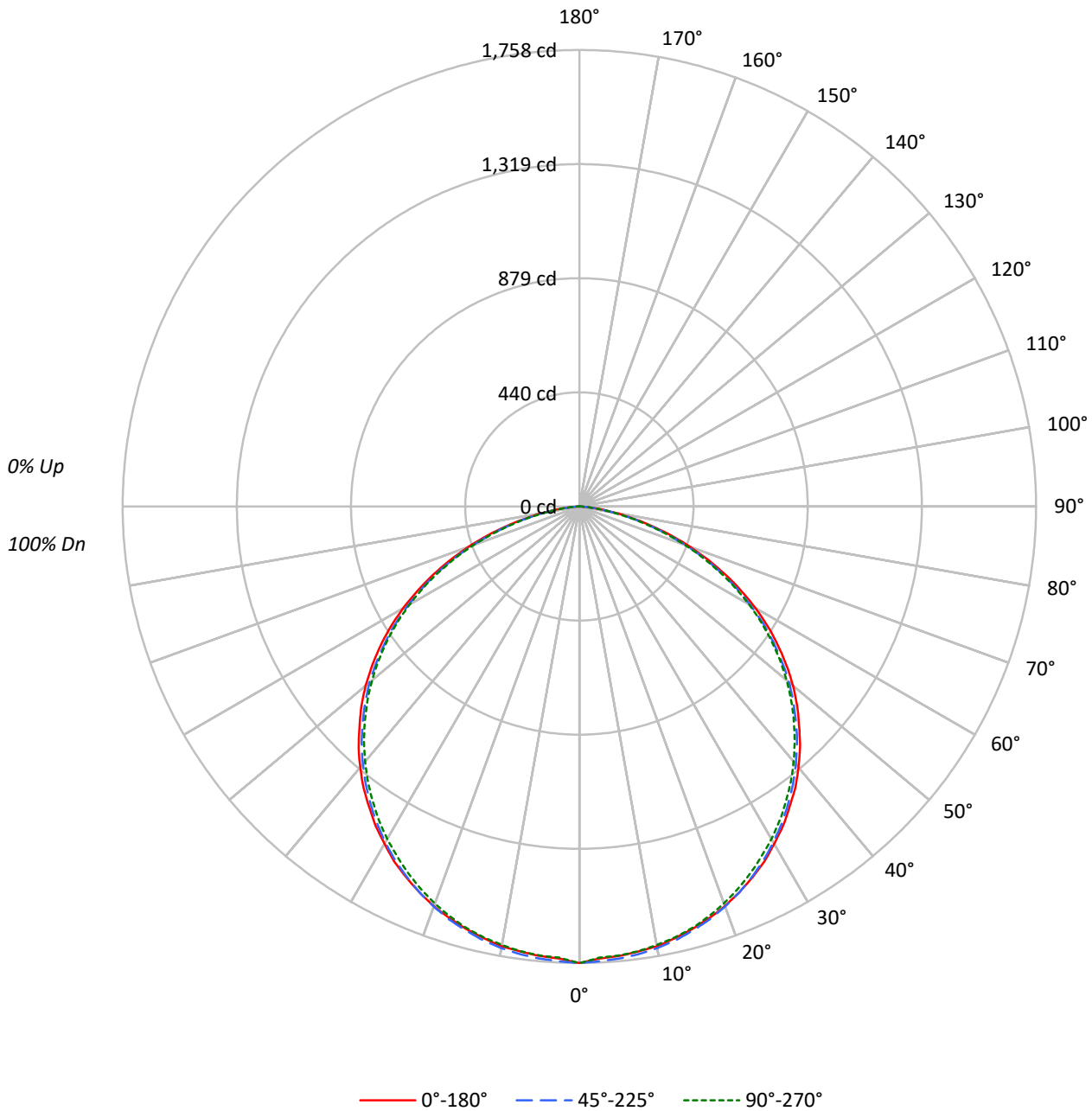
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4921.4 lumens
Efficiency: N/A
Efficacy: 93.7 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°	4732	4732	4732
5°	4695	4722	4689
10°	4699	4719	4685
15°	4692	4710	4682
20°	4692	4696	4658
25°	4681	4672	4629
30°	4661	4640	4595
35°	4636	4600	4555
40°	4610	4553	4507
45°	4553	4490	4443
50°	4494	4412	4360
55°	4381	4278	4237
60°	4211	4093	4058
65°	3944	3828	3786
70°	3556	3413	3384
75°	2982	2830	2800
80°	2165	2019	1962
85°	1145	1013	920

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4553 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	3.4
10°-20°	478.3	9.7
20°-30°	726.6	14.8
30°-40°	879.0	17.9
40°-50°	913.5	18.6
50°-60°	817.9	16.6
60°-70°	596.6	12.1
70°-80°	293.8	6.0
80°-90°	49.1	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°	1371.5	27.9
0°-40°	2250.5	45.7
0°-60°	3981.9	80.9
0°-90°	4921.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4921.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1738	1757	1748	1765	1736	165
15°	1684	1699	1691	1705	1680	476
25°	1576	1584	1574	1581	1559	727
35°	1411	1414	1400	1406	1386	884
45°	1196	1195	1180	1182	1167	924
55°	934	926	912	910	903	833
65°	619	612	601	597	595	612
75°	287	282	272	269	269	306
85°	37	36	33	29	30	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1758.4	1758.4	1758.4	1758.4	1758.4
2.5°	1743.1	1762.7	1753.3	1770.7	1739.4
5°	1738.0	1756.9	1748.2	1764.9	1735.8
7.5°	1729.3	1748.9	1739.4	1755.5	1727.8
10°	1719.8	1737.3	1727.1	1743.1	1714.7
12.5°	1703.0	1720.5	1711.1	1725.6	1699.4
15°	1684.1	1699.4	1690.7	1705.2	1680.5
17.5°	1662.3	1676.8	1667.4	1680.5	1655.7
20°	1638.3	1649.9	1639.7	1650.6	1626.6
22.5°	1608.4	1619.4	1608.4	1615.7	1594.6
25°	1576.4	1584.4	1573.5	1580.8	1558.9
27.5°	1542.2	1546.6	1535.7	1541.5	1518.9
30°	1500.0	1505.1	1493.4	1500.7	1478.9
32.5°	1459.2	1462.1	1449.0	1454.9	1435.2
35°	1411.2	1414.1	1400.3	1406.1	1386.5
37.5°	1365.4	1364.6	1350.1	1353.7	1337.0
40°	1312.2	1311.5	1296.2	1299.1	1283.1
42.5°	1257.6	1254.7	1240.2	1241.6	1227.1
45°	1196.5	1195.0	1179.8	1181.9	1167.4
47.5°	1137.5	1133.2	1117.9	1118.6	1106.3
50°	1073.5	1067.0	1053.9	1052.4	1041.5
52.5°	1005.1	997.8	983.3	981.8	973.8
55°	933.8	925.8	911.9	909.7	903.2
57.5°	860.3	850.1	839.2	834.8	829.7
60°	782.4	772.9	760.5	756.2	754.0
62.5°	701.6	692.1	682.7	678.3	675.4
65°	619.4	612.1	601.2	596.8	594.6
67.5°	535.7	529.1	518.9	513.8	513.1
70°	452.0	445.4	433.8	430.9	430.1
72.5°	368.3	362.4	351.5	348.6	348.6
75°	286.8	281.7	272.2	269.3	269.3
77.5°	209.6	205.2	198.0	194.3	194.3
80°	139.7	136.8	130.3	127.4	126.6
82.5°	80.8	79.3	73.5	70.6	72.1
85°	37.1	35.7	32.8	29.1	29.8
87.5°	9.5	8.7	6.6	5.1	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)