

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: P973112

Luminaire Tested: FLR2-14-70HE-L930-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973112
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-CA080
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3000CCT & 90 CRI Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

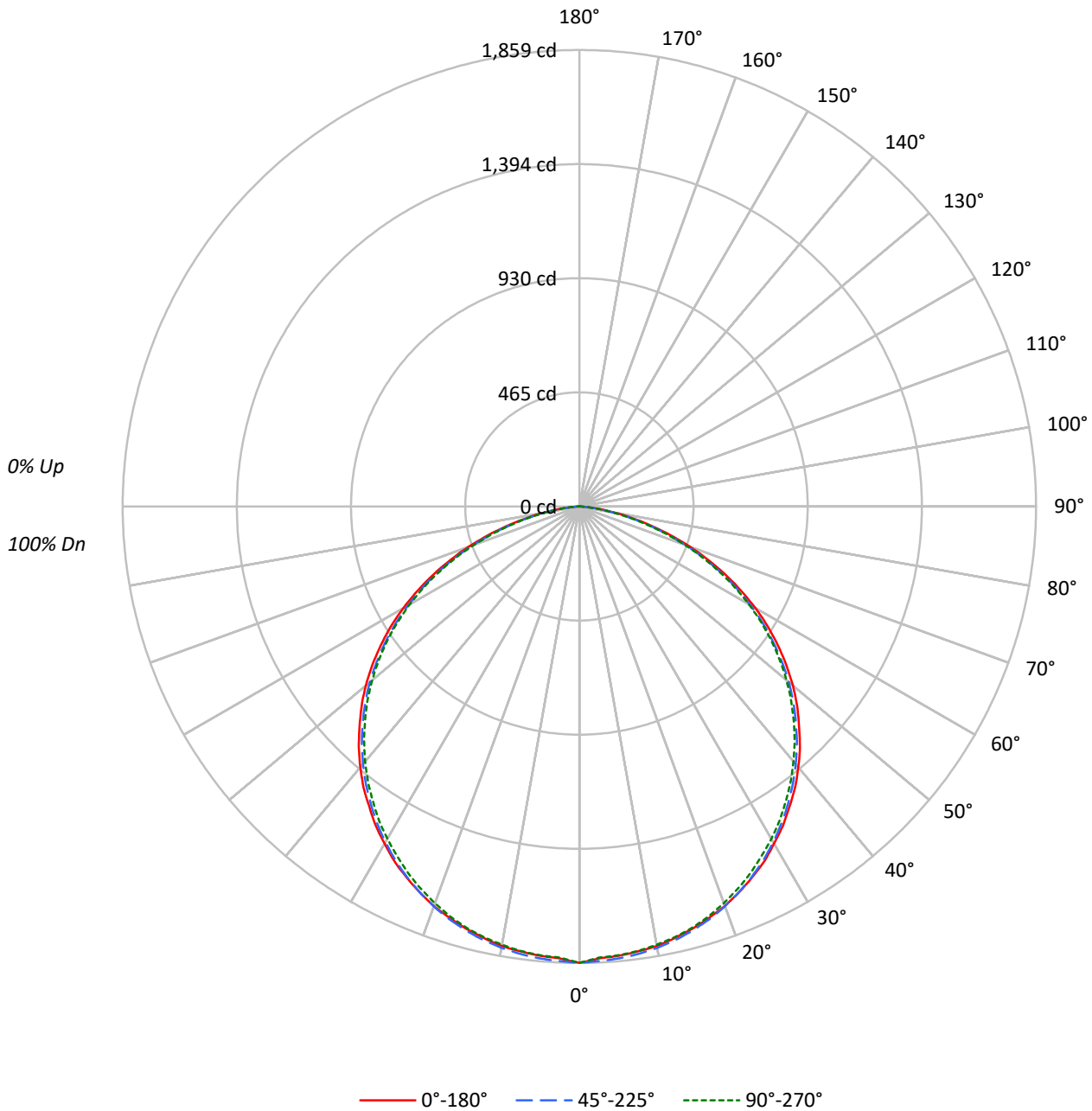
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5201.9 lumens
Efficiency: N/A
Efficacy: 99.1 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): 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°	5001	5001	5001
5°	4962	4991	4956
10°	4967	4988	4952
15°	4959	4978	4948
20°	4959	4963	4924
25°	4947	4938	4893
30°	4927	4905	4857
35°	4900	4862	4814
40°	4872	4813	4764
45°	4813	4746	4696
50°	4750	4663	4608
55°	4631	4522	4479
60°	4451	4327	4289
65°	4168	4046	4002
70°	3758	3607	3577
75°	3151	2991	2959
80°	2289	2134	2075
85°	1210	1068	973

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4813 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	3.4
10°-20°	505.5	9.7
20°-30°	768.1	14.8
30°-40°	929.1	17.9
40°-50°	965.6	18.6
50°-60°	864.5	16.6
60°-70°	630.6	12.1
70°-80°	310.5	6.0
80°-90°	51.9	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°	1449.7	27.9
0°-40°	2378.7	45.7
0°-60°	4208.9	80.9
0°-90°	5201.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5201.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1859	1859	1859	1859	1859	
5°	1837	1857	1848	1866	1835	175
15°	1780	1796	1787	1802	1776	503
25°	1666	1675	1663	1671	1648	768
35°	1492	1495	1480	1486	1466	934
45°	1265	1263	1247	1249	1234	976
55°	987	978	964	962	955	881
65°	655	647	635	631	628	647
75°	303	298	288	285	285	323
85°	39	38	35	31	32	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1858.6	1858.6	1858.6	1858.6	1858.6
2.5°	1842.4	1863.2	1853.2	1871.6	1838.6
5°	1837.0	1857.0	1847.8	1865.5	1834.7
7.5°	1827.8	1848.6	1838.6	1855.5	1826.2
10°	1817.8	1836.2	1825.5	1842.4	1812.4
12.5°	1800.1	1818.6	1808.6	1823.9	1796.2
15°	1780.1	1796.2	1787.0	1802.4	1776.2
17.5°	1757.0	1772.4	1762.4	1776.2	1750.1
20°	1731.6	1743.9	1733.2	1744.7	1719.3
22.5°	1700.1	1711.6	1700.1	1707.8	1685.5
25°	1666.2	1674.7	1663.2	1670.9	1647.8
27.5°	1630.1	1634.7	1623.2	1629.3	1605.5
30°	1585.5	1590.8	1578.5	1586.2	1563.2
32.5°	1542.4	1545.5	1531.6	1537.8	1517.0
35°	1491.6	1494.7	1480.1	1486.2	1465.5
37.5°	1443.1	1442.4	1427.0	1430.8	1413.1
40°	1387.0	1386.2	1370.1	1373.1	1356.2
42.5°	1329.3	1326.2	1310.8	1312.4	1297.0
45°	1264.7	1263.1	1247.0	1249.3	1233.9
47.5°	1202.4	1197.8	1181.6	1182.4	1169.3
50°	1134.7	1127.7	1113.9	1112.4	1100.8
52.5°	1062.4	1054.7	1039.3	1037.7	1029.3
55°	987.0	978.5	963.9	961.6	954.7
57.5°	909.3	898.5	887.0	882.4	877.0
60°	827.0	817.0	803.9	799.3	797.0
62.5°	741.6	731.6	721.6	717.0	713.9
65°	654.6	647.0	635.4	630.8	628.5
67.5°	566.2	559.3	548.5	543.1	542.3
70°	477.7	470.8	458.5	455.4	454.6
72.5°	389.3	383.1	371.6	368.5	368.5
75°	303.1	297.7	287.7	284.6	284.6
77.5°	221.5	216.9	209.2	205.4	205.4
80°	147.7	144.6	137.7	134.6	133.9
82.5°	85.4	83.9	77.7	74.6	76.2
85°	39.2	37.7	34.6	30.8	31.5
87.5°	10.0	9.2	6.9	5.4	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)