

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: P973182

Luminaire Tested: FLR2-14-70HE-L935-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973182
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-L935-CA080
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3500CCT & 90 CRI Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

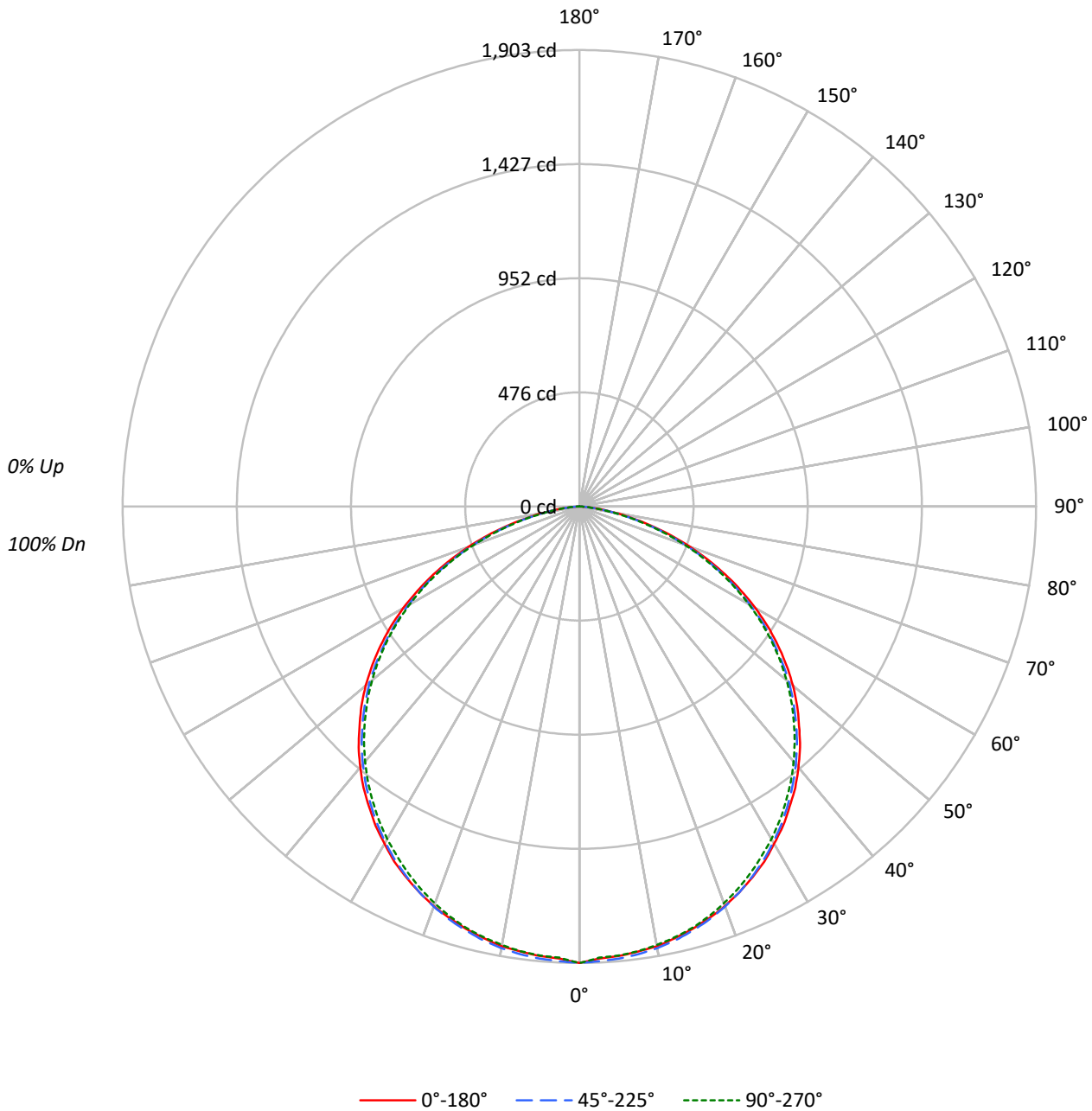
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5327.2 lumens
Efficiency: N/A
Efficacy: 101.5 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°	5122	5122	5122
5°	5082	5112	5075
10°	5087	5108	5072
15°	5079	5098	5068
20°	5078	5083	5042
25°	5067	5057	5010
30°	5045	5023	4974
35°	5018	4979	4930
40°	4990	4929	4879
45°	4929	4860	4809
50°	4865	4775	4719
55°	4742	4631	4587
60°	4558	4431	4393
65°	4269	4143	4098
70°	3849	3694	3663
75°	3227	3063	3031
80°	2345	2185	2125
85°	1241	1096	997

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4929 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	3.4
10°-20°	517.7	9.7
20°-30°	786.6	14.8
30°-40°	951.5	17.9
40°-50°	988.9	18.6
50°-60°	885.4	16.6
60°-70°	645.7	12.1
70°-80°	318.0	6.0
80°-90°	53.2	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°	1484.6	27.9
0°-40°	2436.0	45.7
0°-60°	4310.3	80.9
0°-90°	5327.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5327.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1903	1903	1903	1903	1903	
5°	1881	1902	1892	1910	1879	179
15°	1823	1840	1830	1846	1819	515
25°	1706	1715	1703	1711	1688	787
35°	1528	1531	1516	1522	1501	957
45°	1295	1294	1277	1279	1264	1000
55°	1011	1002	987	985	978	902
65°	670	662	651	646	644	662
75°	310	305	295	292	292	331
85°	40	39	36	32	32	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1903.3	1903.3	1903.3	1903.3	1903.3
2.5°	1886.8	1908.1	1897.8	1916.7	1882.9
5°	1881.3	1901.8	1892.3	1910.4	1878.9
7.5°	1871.8	1893.1	1882.9	1900.2	1870.3
10°	1861.6	1880.5	1869.5	1886.8	1856.1
12.5°	1843.5	1862.4	1852.1	1867.9	1839.5
15°	1823.0	1839.5	1830.1	1845.8	1819.0
17.5°	1799.3	1815.1	1804.9	1819.0	1792.3
20°	1773.4	1786.0	1774.9	1786.7	1760.7
22.5°	1741.1	1752.9	1741.1	1748.9	1726.1
25°	1706.4	1715.1	1703.2	1711.1	1687.5
27.5°	1669.4	1674.1	1662.3	1668.6	1644.2
30°	1623.7	1629.2	1616.6	1624.5	1600.8
32.5°	1579.6	1582.7	1568.5	1574.8	1553.6
35°	1527.6	1530.7	1515.7	1522.0	1500.8
37.5°	1477.9	1477.1	1461.4	1465.3	1447.2
40°	1420.4	1419.6	1403.1	1406.2	1388.9
42.5°	1361.3	1358.2	1342.4	1344.0	1328.2
45°	1295.2	1293.6	1277.0	1279.4	1263.6
47.5°	1231.3	1226.6	1210.1	1210.9	1197.5
50°	1162.0	1154.9	1140.7	1139.2	1127.3
52.5°	1088.0	1080.1	1064.3	1062.7	1054.1
55°	1010.8	1002.1	987.1	984.8	977.7
57.5°	931.2	920.2	908.3	903.6	898.1
60°	846.9	836.6	823.3	818.5	816.2
62.5°	759.4	749.2	739.0	734.2	731.1
65°	670.4	662.5	650.7	646.0	643.6
67.5°	579.8	572.7	561.7	556.2	555.4
70°	489.2	482.1	469.5	466.4	465.6
72.5°	398.6	392.3	380.5	377.4	377.4
75°	310.4	304.9	294.6	291.5	291.5
77.5°	226.9	222.2	214.3	210.3	210.3
80°	151.3	148.1	141.0	137.9	137.1
82.5°	87.4	85.9	79.6	76.4	78.0
85°	40.2	38.6	35.5	31.5	32.3
87.5°	10.2	9.5	7.1	5.5	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)