

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: P973172

Luminaire Tested: FLR2-14-70HE-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973172
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-CP250
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3500CCT & 90 CRI Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

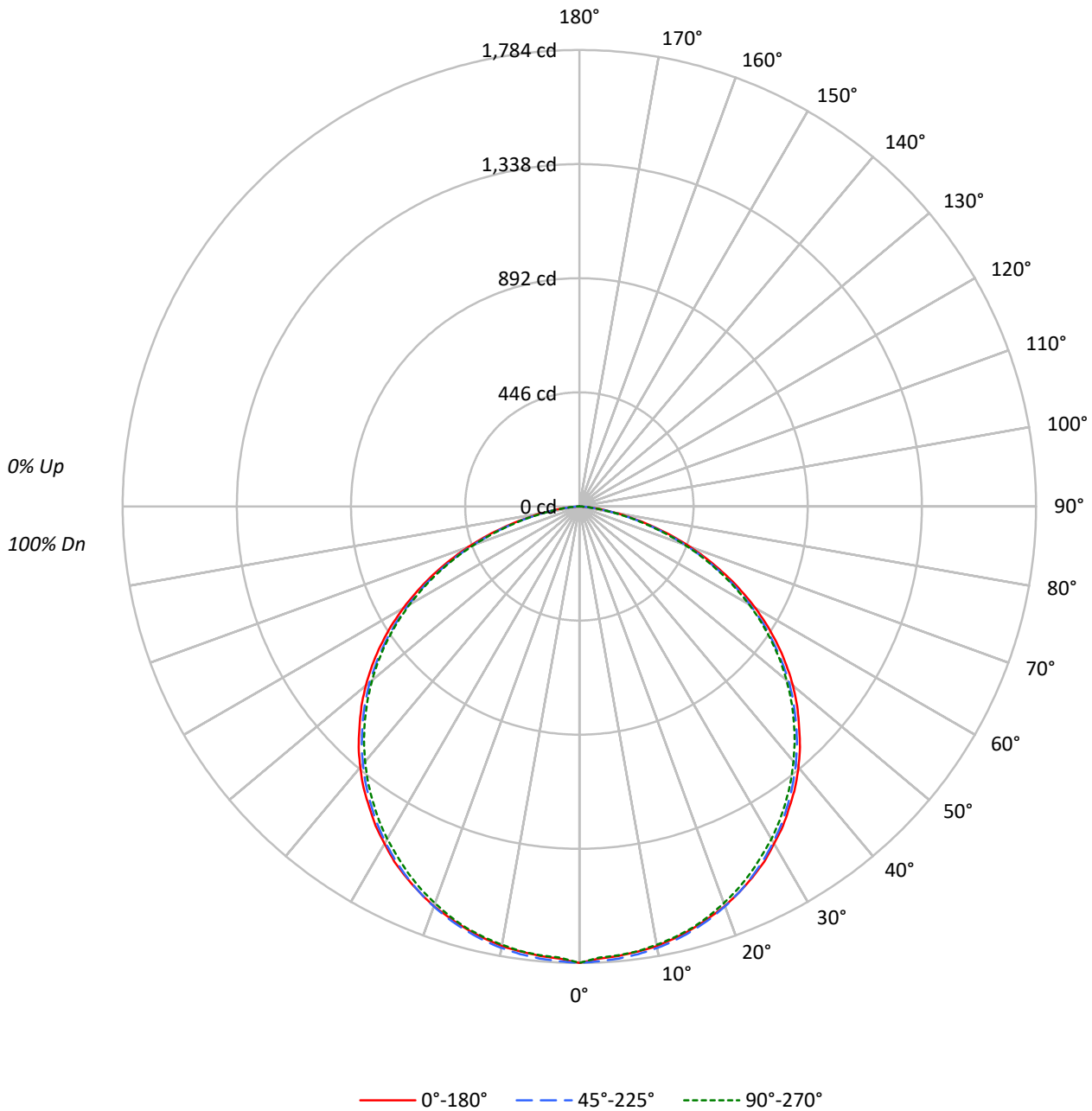
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4993.1 lumens
Efficiency: N/A
Efficacy: 95.1 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

TEST NUMBER: P973172
CATALOG NUMBER: FLR2-14-70HE-L935-CP250

Luminous Intensity Polar Plot





TEST NUMBER: P973172
 CATALOG NUMBER: FLR2-14-70HE-L935-CP250

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°	4801	4801	4801
5°	4763	4791	4757
10°	4768	4788	4754
15°	4760	4779	4750
20°	4760	4764	4726
25°	4749	4740	4696
30°	4729	4708	4662
35°	4704	4667	4621
40°	4677	4620	4573
45°	4620	4555	4507
50°	4559	4476	4423
55°	4445	4341	4299
60°	4272	4153	4117
65°	4001	3883	3841
70°	3607	3463	3434
75°	3025	2872	2840
80°	2197	2049	1991
85°	1164	1025	936

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4620 cd/sqm



TEST NUMBER: P973172
 CATALOG NUMBER: FLR2-14-70HE-L935-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	3.4
10°-20°	485.3	9.7
20°-30°	737.2	14.8
30°-40°	891.8	17.9
40°-50°	926.8	18.6
50°-60°	829.8	16.6
60°-70°	605.3	12.1
70°-80°	298.0	6.0
80°-90°	49.8	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°	1391.5	27.9
0°-40°	2283.3	45.7
0°-60°	4039.9	80.9
0°-90°	4993.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4993.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1763	1782	1774	1791	1761	168
15°	1709	1724	1715	1730	1705	483
25°	1599	1608	1596	1604	1582	737
35°	1432	1435	1421	1427	1407	897
45°	1214	1212	1197	1199	1184	937
55°	947	939	925	923	916	846
65°	628	621	610	606	603	621
75°	291	286	276	273	273	310
85°	38	36	33	30	30	54
90°	0	0	0	0	0	



TEST NUMBER: P973172
 CATALOG NUMBER: FLR2-14-70HE-L935-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.0	1784.0	1784.0	1784.0	1784.0
2.5°	1768.5	1788.4	1778.8	1796.5	1764.8
5°	1763.3	1782.5	1773.6	1790.6	1761.1
7.5°	1754.4	1774.4	1764.8	1781.0	1753.0
10°	1744.8	1762.6	1752.2	1768.5	1739.7
12.5°	1727.9	1745.6	1736.0	1750.7	1724.2
15°	1708.7	1724.2	1715.3	1730.1	1705.0
17.5°	1686.5	1701.3	1691.7	1705.0	1679.9
20°	1662.1	1674.0	1663.6	1674.7	1650.3
22.5°	1631.9	1642.9	1631.9	1639.2	1617.8
25°	1599.4	1607.5	1596.4	1603.8	1581.7
27.5°	1564.7	1569.1	1558.0	1563.9	1541.0
30°	1521.8	1527.0	1515.2	1522.6	1500.4
32.5°	1480.5	1483.4	1470.2	1476.1	1456.1
35°	1431.8	1434.7	1420.7	1426.6	1406.7
37.5°	1385.2	1384.5	1369.7	1373.4	1356.4
40°	1331.3	1330.6	1315.1	1318.0	1301.8
42.5°	1276.0	1273.0	1258.2	1259.7	1244.9
45°	1213.9	1212.5	1196.9	1199.2	1184.4
47.5°	1154.1	1149.7	1134.2	1134.9	1122.4
50°	1089.1	1082.5	1069.2	1067.7	1056.6
52.5°	1019.7	1012.3	997.6	996.1	988.0
55°	947.4	939.2	925.2	923.0	916.4
57.5°	872.8	862.5	851.4	846.9	841.8
60°	793.8	784.2	771.6	767.2	765.0
62.5°	711.8	702.2	692.6	688.2	685.2
65°	628.4	621.0	609.9	605.5	603.3
67.5°	543.5	536.8	526.5	521.3	520.6
70°	458.5	451.9	440.1	437.1	436.4
72.5°	373.6	367.7	356.6	353.7	353.7
75°	290.9	285.8	276.2	273.2	273.2
77.5°	212.7	208.2	200.8	197.2	197.2
80°	141.8	138.8	132.2	129.2	128.5
82.5°	82.0	80.5	74.6	71.6	73.1
85°	37.7	36.2	33.2	29.5	30.3
87.5°	9.6	8.9	6.6	5.2	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)