

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: P973312

Luminaire Tested: FLR2-14-70HE-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973312
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-L950-CP250
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 5000CCT & 90 CRI Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

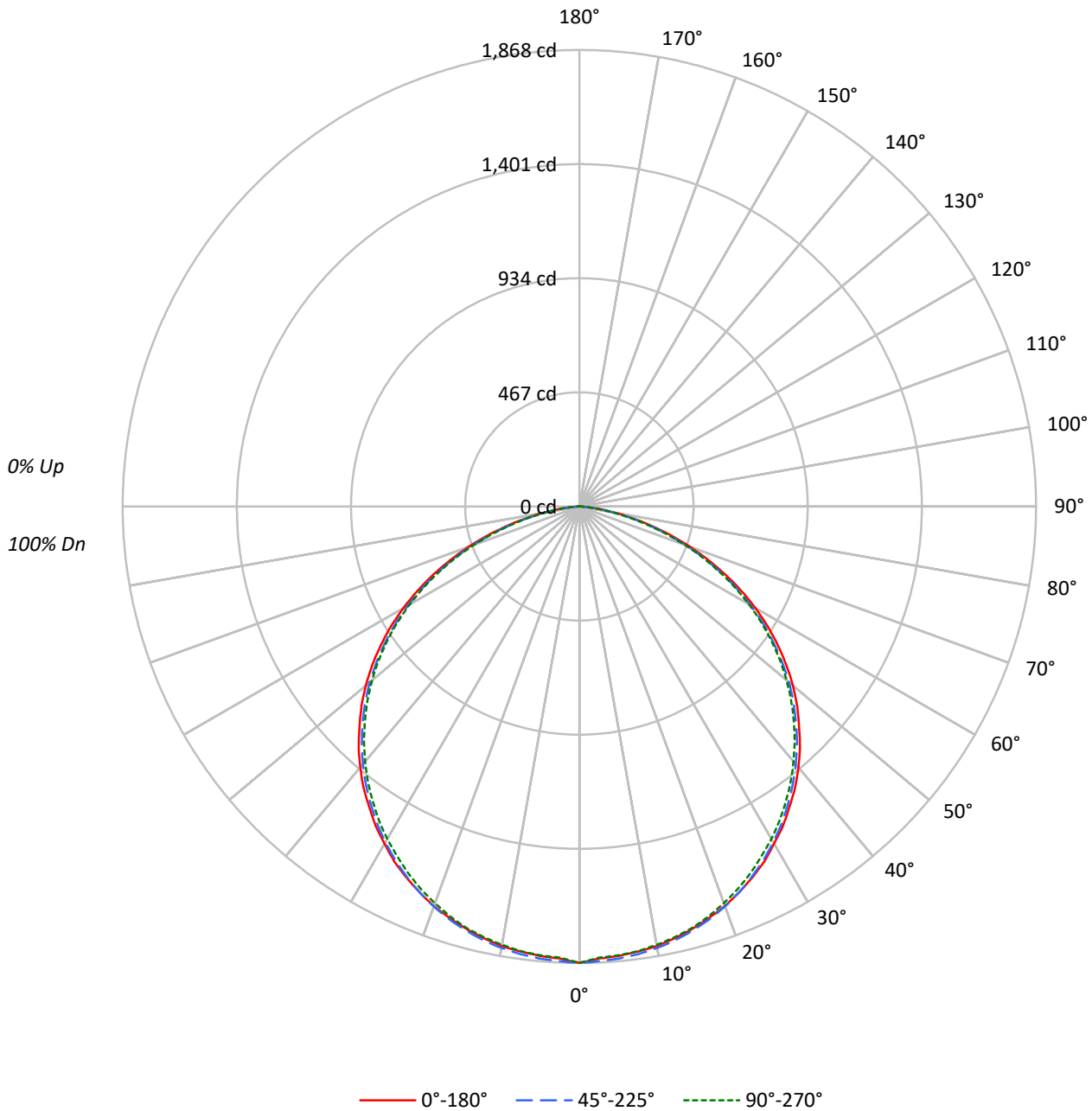
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5228.1 lumens
Efficiency: N/A
Efficacy: 99.6 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									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	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°	5026	5026	5026
5°	4987	5017	4981
10°	4992	5013	4977
15°	4984	5003	4973
20°	4984	4988	4948
25°	4972	4963	4917
30°	4951	4930	4882
35°	4925	4887	4838
40°	4897	4837	4788
45°	4837	4770	4719
50°	4774	4687	4632
55°	4654	4545	4502
60°	4473	4348	4311
65°	4189	4066	4022
70°	3777	3626	3595
75°	3167	3007	2975
80°	2300	2145	2084
85°	1216	1074	979

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4837 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	3.4
10°-20°	508.1	9.7
20°-30°	771.9	14.8
30°-40°	933.8	17.9
40°-50°	970.5	18.6
50°-60°	868.9	16.6
60°-70°	633.7	12.1
70°-80°	312.1	6.0
80°-90°	52.2	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°	1457.0	27.9
0°-40°	2390.7	45.7
0°-60°	4230.1	80.9
0°-90°	5228.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5228.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1868	1868	1868	1868	1868	
5°	1846	1866	1857	1875	1844	176
15°	1789	1805	1796	1812	1785	505
25°	1675	1683	1672	1679	1656	772
35°	1499	1502	1488	1494	1473	939
45°	1271	1270	1253	1256	1240	981
55°	992	983	969	966	960	885
65°	658	650	639	634	632	650
75°	305	299	289	286	286	325
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°	1867.9	1867.9	1867.9	1867.9	1867.9
2.5°	1851.7	1872.6	1862.5	1881.1	1847.8
5°	1846.3	1866.4	1857.1	1874.9	1844.0
7.5°	1837.0	1857.9	1847.8	1864.8	1835.5
10°	1826.9	1845.5	1834.7	1851.7	1821.5
12.5°	1809.2	1827.7	1817.7	1833.1	1805.3
15°	1789.1	1805.3	1796.0	1811.5	1785.2
17.5°	1765.9	1781.3	1771.3	1785.2	1758.9
20°	1740.4	1752.7	1741.9	1753.5	1728.0
22.5°	1708.7	1720.3	1708.7	1716.4	1694.0
25°	1674.6	1683.1	1671.5	1679.3	1656.1
27.5°	1638.3	1642.9	1631.3	1637.5	1613.6
30°	1593.5	1598.9	1586.5	1594.2	1571.0
32.5°	1550.2	1553.3	1539.3	1545.5	1524.6
35°	1499.1	1502.2	1487.5	1493.7	1472.8
37.5°	1450.4	1449.7	1434.2	1438.1	1420.3
40°	1394.0	1393.2	1377.0	1380.1	1363.1
42.5°	1336.0	1332.9	1317.4	1319.0	1303.5
45°	1271.1	1269.5	1253.3	1255.6	1240.1
47.5°	1208.4	1203.8	1187.6	1188.3	1175.2
50°	1140.4	1133.4	1119.5	1118.0	1106.4
52.5°	1067.7	1060.0	1044.5	1043.0	1034.5
55°	991.9	983.4	968.8	966.4	959.5
57.5°	913.9	903.0	891.4	886.8	881.4
60°	831.1	821.1	807.9	803.3	801.0
62.5°	745.3	735.3	725.2	720.6	717.5
65°	657.9	650.2	638.6	634.0	631.7
67.5°	569.0	562.1	551.3	545.8	545.1
70°	480.1	473.2	460.8	457.7	456.9
72.5°	391.2	385.0	373.4	370.3	370.3
75°	304.6	299.2	289.2	286.1	286.1
77.5°	222.7	218.0	210.3	206.4	206.4
80°	148.4	145.4	138.4	135.3	134.5
82.5°	85.8	84.3	78.1	75.0	76.5
85°	39.4	37.9	34.8	30.9	31.7
87.5°	10.1	9.3	7.0	5.4	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)