

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: P973317

Luminaire Tested: FLR2-14-70HE-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973317
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-CP375
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 5000CCT & 90 CRI Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

Summary

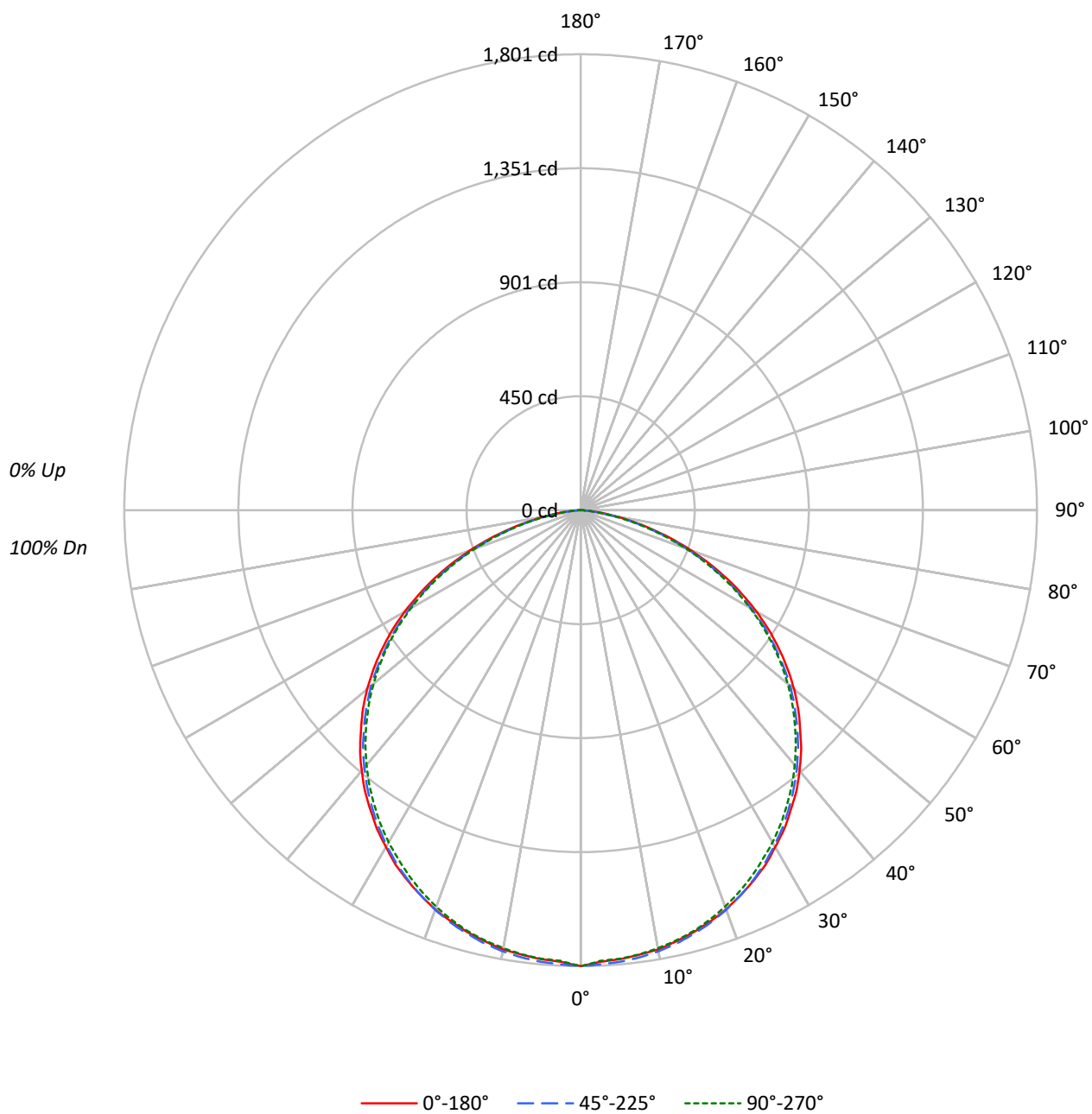
Lumens per Lamp: N/A
Luminaire Lumens: 5041.7 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	87	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	73	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	62	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	46	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	39
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4847	4847	4847
5°	4809	4838	4803
10°	4814	4835	4800
15°	4807	4825	4796
20°	4806	4810	4772
25°	4795	4786	4742
30°	4775	4754	4708
35°	4749	4712	4666
40°	4722	4665	4618
45°	4665	4599	4551
50°	4604	4520	4466
55°	4488	4383	4341
60°	4314	4193	4157
65°	4040	3921	3878
70°	3643	3496	3467
75°	3055	2899	2869
80°	2219	2069	2010
85°	1173	1037	945

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4665 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	3.4
10°-20°	490.0	9.7
20°-30°	744.4	14.8
30°-40°	900.5	17.9
40°-50°	935.9	18.6
50°-60°	837.9	16.6
60°-70°	611.1	12.1
70°-80°	301.0	6.0
80°-90°	50.3	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°	1405.0	27.9
0°-40°	2305.5	45.7
0°-60°	4079.2	80.9
0°-90°	5041.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5041.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1801	1801	1801	1801	1801	
5°	1780	1800	1791	1808	1778	169
15°	1725	1741	1732	1747	1722	487
25°	1615	1623	1612	1619	1597	744
35°	1446	1449	1434	1440	1420	905
45°	1226	1224	1209	1211	1196	946
55°	957	948	934	932	925	854
65°	634	627	616	611	609	627
75°	294	288	279	276	276	313
85°	38	36	34	30	31	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1801.3	1801.3	1801.3	1801.3	1801.3
2.5°	1785.7	1805.8	1796.1	1814.0	1781.9
5°	1780.4	1799.8	1790.9	1808.0	1778.2
7.5°	1771.5	1791.6	1781.9	1798.3	1770.0
10°	1761.8	1779.7	1769.3	1785.7	1756.6
12.5°	1744.7	1762.5	1752.9	1767.8	1740.9
15°	1725.3	1740.9	1732.0	1746.9	1721.5
17.5°	1702.9	1717.8	1708.1	1721.5	1696.2
20°	1678.3	1690.2	1679.8	1691.0	1666.4
22.5°	1647.7	1658.9	1647.7	1655.2	1633.6
25°	1614.9	1623.1	1611.9	1619.4	1597.0
27.5°	1579.9	1584.4	1573.2	1579.1	1556.0
30°	1536.6	1541.9	1529.9	1537.4	1515.0
32.5°	1494.9	1497.9	1484.4	1490.4	1470.3
35°	1445.7	1448.7	1434.5	1440.5	1420.3
37.5°	1398.7	1398.0	1383.0	1386.8	1369.6
40°	1344.3	1343.5	1327.9	1330.9	1314.5
42.5°	1288.4	1285.4	1270.5	1272.0	1257.0
45°	1225.7	1224.2	1208.6	1210.8	1195.9
47.5°	1165.3	1160.9	1145.2	1146.0	1133.3
50°	1099.7	1093.0	1079.6	1078.1	1066.9
52.5°	1029.6	1022.2	1007.3	1005.8	997.6
55°	956.6	948.4	934.2	932.0	925.3
57.5°	881.3	870.8	859.7	855.2	850.0
60°	801.5	791.8	779.1	774.7	772.4
62.5°	718.7	709.0	699.4	694.9	691.9
65°	634.5	627.0	615.8	611.4	609.1
67.5°	548.7	542.0	531.6	526.4	525.6
70°	463.0	456.3	444.4	441.4	440.6
72.5°	377.3	371.3	360.1	357.1	357.1
75°	293.8	288.5	278.8	275.9	275.9
77.5°	214.7	210.3	202.8	199.1	199.1
80°	143.2	140.2	133.5	130.5	129.7
82.5°	82.8	81.3	75.3	72.3	73.8
85°	38.0	36.5	33.6	29.8	30.6
87.5°	9.7	8.9	6.7	5.2	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)