

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: P973167

Luminaire Tested: FLR2-14-70HE-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973167
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-CP187
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3500CCT & 90 CRI Clear Polycarbonate (0.187" thickness)

Light Source:
Ballast/Driver: -

Summary

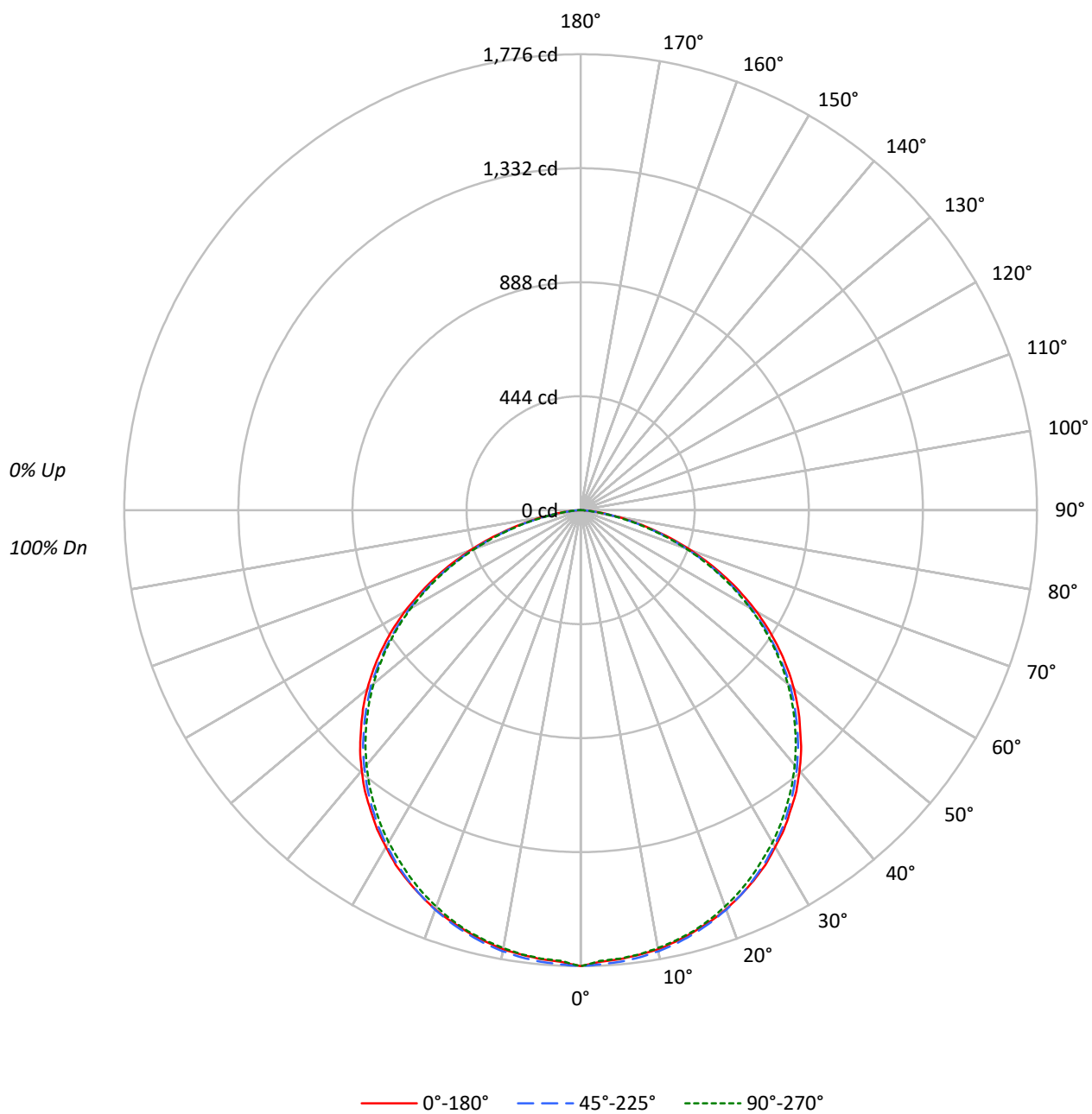
Lumens per Lamp: N/A
Luminaire Lumens: 4971.1 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	4779	4779	4779
5°	4742	4770	4736
10°	4747	4767	4733
15°	4739	4757	4729
20°	4739	4743	4705
25°	4728	4719	4676
30°	4708	4687	4642
35°	4683	4646	4600
40°	4656	4599	4553
45°	4599	4535	4488
50°	4539	4456	4404
55°	4425	4321	4280
60°	4253	4134	4099
65°	3983	3866	3824
70°	3592	3447	3419
75°	3011	2858	2828
80°	2187	2039	1982
85°	1158	1022	929

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	3.4
10°-20°	483.1	9.7
20°-30°	734.0	14.8
30°-40°	887.9	17.9
40°-50°	922.8	18.6
50°-60°	826.2	16.6
60°-70°	602.6	12.1
70°-80°	296.7	6.0
80°-90°	49.6	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°	1385.3	27.9
0°-40°	2273.2	45.7
0°-60°	4022.1	80.9
0°-90°	4971.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4971.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1776	1776	1776	1776	1776	
5°	1756	1775	1766	1783	1753	167
15°	1701	1717	1708	1722	1697	480
25°	1592	1600	1589	1597	1575	734
35°	1425	1428	1414	1420	1400	893
45°	1209	1207	1192	1194	1179	933
55°	943	935	921	919	912	842
65°	626	618	607	603	601	618
75°	290	284	275	272	272	309
85°	38	36	33	29	30	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1776.1	1776.1	1776.1	1776.1	1776.1
2.5°	1760.7	1780.5	1771.0	1788.6	1757.0
5°	1755.5	1774.6	1765.8	1782.7	1753.3
7.5°	1746.7	1766.6	1757.0	1773.2	1745.2
10°	1737.1	1754.8	1744.5	1760.7	1732.0
12.5°	1720.2	1737.9	1728.3	1743.0	1716.6
15°	1701.1	1716.6	1707.7	1722.4	1697.4
17.5°	1679.1	1693.8	1684.2	1697.4	1672.5
20°	1654.8	1666.6	1656.3	1667.3	1643.0
22.5°	1624.7	1635.7	1624.7	1632.0	1610.7
25°	1592.3	1600.4	1589.4	1596.7	1574.7
27.5°	1557.8	1562.2	1551.2	1557.0	1534.2
30°	1515.1	1520.3	1508.5	1515.9	1493.8
32.5°	1474.0	1476.9	1463.7	1469.6	1449.7
35°	1425.4	1428.4	1414.4	1420.3	1400.4
37.5°	1379.1	1378.4	1363.7	1367.4	1350.5
40°	1325.5	1324.7	1309.3	1312.2	1296.1
42.5°	1270.3	1267.4	1252.7	1254.2	1239.5
45°	1208.6	1207.1	1191.7	1193.9	1179.2
47.5°	1149.0	1144.6	1129.2	1129.9	1117.4
50°	1084.3	1077.7	1064.5	1063.0	1052.0
52.5°	1015.2	1007.9	993.2	991.7	983.6
55°	943.2	935.1	921.1	918.9	912.3
57.5°	868.9	858.6	847.6	843.2	838.1
60°	790.3	780.7	768.2	763.8	761.6
62.5°	708.7	699.1	689.6	685.2	682.2
65°	625.6	618.3	607.2	602.8	600.6
67.5°	541.1	534.4	524.2	519.0	518.3
70°	456.5	449.9	438.1	435.2	434.5
72.5°	372.0	366.1	355.1	352.1	352.1
75°	289.6	284.5	274.9	272.0	272.0
77.5°	211.7	207.3	200.0	196.3	196.3
80°	141.1	138.2	131.6	128.7	127.9
82.5°	81.6	80.1	74.2	71.3	72.8
85°	37.5	36.0	33.1	29.4	30.1
87.5°	9.6	8.8	6.6	5.1	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)