

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: P973077

Luminaire Tested: FLR2-14-70HE-L830-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973077
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-L830-CA080
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3000CCT & 80CRI Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

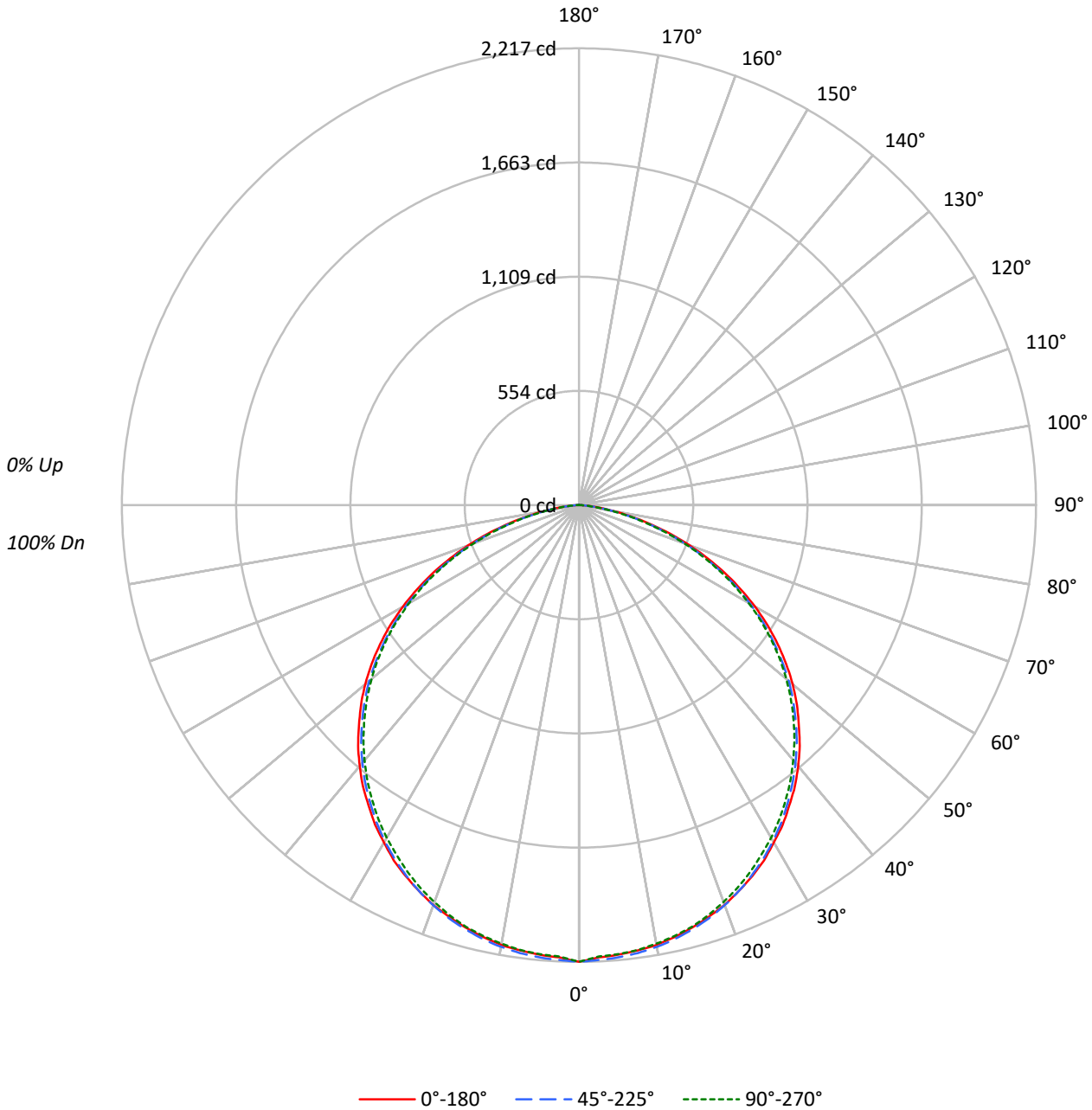
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6204.6 lumens
Efficiency: N/A
Efficacy: 118.2 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°	5965	5965	5965
5°	5919	5954	5911
10°	5925	5950	5907
15°	5915	5938	5902
20°	5915	5920	5873
25°	5901	5890	5836
30°	5876	5850	5794
35°	5845	5799	5742
40°	5812	5741	5683
45°	5741	5660	5601
50°	5666	5562	5497
55°	5523	5394	5342
60°	5309	5161	5116
65°	4972	4826	4773
70°	4483	4303	4267
75°	3759	3568	3530
80°	2731	2545	2475
85°	1445	1275	1161

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5741 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.0	3.4
10°-20°	603.0	9.7
20°-30°	916.1	14.8
30°-40°	1108.2	17.9
40°-50°	1151.7	18.6
50°-60°	1031.2	16.6
60°-70°	752.1	12.1
70°-80°	370.4	6.0
80°-90°	61.9	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°	1729.1	27.9
0°-40°	2837.3	45.7
0°-60°	5020.2	80.9
0°-90°	6204.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6204.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2217	2217	2217	2217	2217	
5°	2191	2215	2204	2225	2188	208
15°	2123	2142	2132	2150	2119	600
25°	1987	1998	1984	1993	1965	916
35°	1779	1783	1765	1773	1748	1114
45°	1508	1507	1487	1490	1472	1165
55°	1177	1167	1150	1147	1139	1051
65°	781	772	758	752	750	771
75°	362	355	343	340	340	385
85°	47	45	41	37	38	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2216.8	2216.8	2216.8	2216.8	2216.8
2.5°	2197.6	2222.3	2210.4	2232.4	2193.0
5°	2191.1	2215.0	2204.0	2225.1	2188.4
7.5°	2180.1	2204.9	2193.0	2213.2	2178.3
10°	2168.2	2190.2	2177.4	2197.6	2161.8
12.5°	2147.1	2169.1	2157.2	2175.5	2142.5
15°	2123.2	2142.5	2131.5	2149.8	2118.7
17.5°	2095.7	2114.1	2102.1	2118.7	2087.5
20°	2065.4	2080.1	2067.3	2081.0	2050.8
22.5°	2027.8	2041.6	2027.8	2037.0	2010.4
25°	1987.4	1997.5	1983.8	1992.9	1965.4
27.5°	1944.3	1949.8	1936.1	1943.4	1915.0
30°	1891.1	1897.5	1882.8	1892.0	1864.5
32.5°	1839.7	1843.4	1826.9	1834.2	1809.4
35°	1779.2	1782.8	1765.4	1772.7	1748.0
37.5°	1721.3	1720.4	1702.1	1706.7	1685.6
40°	1654.4	1653.4	1634.2	1637.8	1617.7
42.5°	1585.5	1581.9	1563.5	1565.4	1547.0
45°	1508.5	1506.6	1487.4	1490.1	1471.8
47.5°	1434.1	1428.6	1409.4	1410.3	1394.7
50°	1353.4	1345.1	1328.6	1326.8	1313.0
52.5°	1267.2	1258.0	1239.6	1237.8	1227.7
55°	1177.2	1167.1	1149.7	1147.0	1138.7
57.5°	1084.6	1071.7	1057.9	1052.4	1046.0
60°	986.4	974.5	958.9	953.3	950.6
62.5°	884.5	872.6	860.7	855.2	851.5
65°	780.8	771.7	757.9	752.4	749.6
67.5°	675.3	667.1	654.2	647.8	646.9
70°	569.8	561.5	546.9	543.2	542.3
72.5°	464.3	456.9	443.2	439.5	439.5
75°	361.5	355.1	343.2	339.5	339.5
77.5°	264.3	258.8	249.6	245.0	245.0
80°	176.2	172.5	164.2	160.6	159.7
82.5°	101.8	100.0	92.7	89.0	90.8
85°	46.8	45.0	41.3	36.7	37.6
87.5°	11.9	11.0	8.3	6.4	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)