

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: P973147

Luminaire Tested: FLR2-14-70HE-L835-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973147
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-L835-CA080
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3500CCT & 80CRI Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

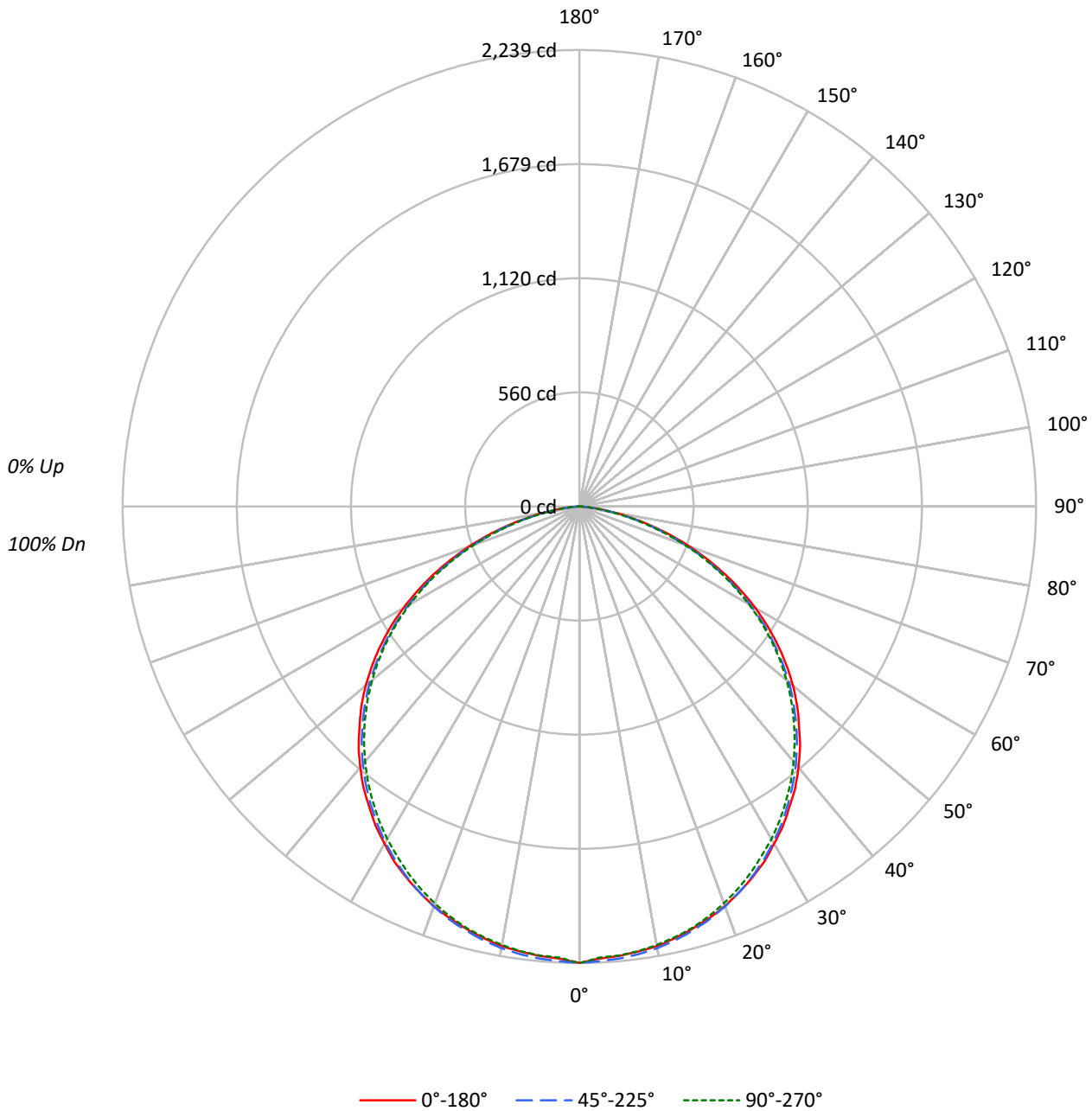
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6267.3 lumens
Efficiency: N/A
Efficacy: 119.4 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°	6026	6026	6026
5°	5979	6014	5971
10°	5984	6010	5967
15°	5975	5998	5962
20°	5974	5980	5932
25°	5961	5950	5895
30°	5936	5910	5852
35°	5904	5858	5800
40°	5870	5799	5740
45°	5799	5718	5657
50°	5723	5618	5552
55°	5579	5448	5396
60°	5362	5212	5168
65°	5022	4875	4821
70°	4529	4346	4310
75°	3797	3604	3565
80°	2758	2571	2500
85°	1460	1288	1173

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5799 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	3.4
10°-20°	609.1	9.7
20°-30°	925.4	14.8
30°-40°	1119.4	17.9
40°-50°	1163.4	18.6
50°-60°	1041.6	16.6
60°-70°	759.7	12.1
70°-80°	374.1	6.0
80°-90°	62.6	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°	1746.6	27.9
0°-40°	2865.9	45.7
0°-60°	5070.9	80.9
0°-90°	6267.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6267.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2239	2239	2239	2239	2239	
5°	2213	2237	2226	2248	2210	211
15°	2145	2164	2153	2172	2140	606
25°	2008	2018	2004	2013	1985	925
35°	1797	1801	1783	1791	1766	1125
45°	1524	1522	1502	1505	1487	1176
55°	1189	1179	1161	1158	1150	1061
65°	789	780	766	760	757	779
75°	365	359	347	343	343	389
85°	47	45	42	37	38	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2239.2	2239.2	2239.2	2239.2	2239.2
2.5°	2219.8	2244.8	2232.7	2255.0	2215.1
5°	2213.3	2237.4	2226.2	2247.6	2210.5
7.5°	2202.1	2227.2	2215.1	2235.5	2200.3
10°	2190.1	2212.3	2199.4	2219.8	2183.6
12.5°	2168.8	2191.0	2179.0	2197.5	2164.1
15°	2144.7	2164.1	2153.0	2171.6	2140.1
17.5°	2116.9	2135.4	2123.4	2140.1	2108.5
20°	2086.3	2101.1	2088.1	2102.1	2071.5
22.5°	2048.3	2062.2	2048.3	2057.6	2030.7
25°	2007.5	2017.7	2003.8	2013.1	1985.3
27.5°	1964.0	1969.5	1955.6	1963.0	1934.3
30°	1910.2	1916.7	1901.9	1911.1	1883.3
32.5°	1858.3	1862.0	1845.3	1852.7	1827.7
35°	1797.1	1800.8	1783.2	1790.6	1765.6
37.5°	1738.7	1737.8	1719.3	1723.9	1702.6
40°	1671.1	1670.1	1650.7	1654.4	1634.0
42.5°	1601.6	1597.9	1579.3	1581.2	1562.6
45°	1523.7	1521.9	1502.4	1505.2	1486.6
47.5°	1448.6	1443.1	1423.6	1424.5	1408.8
50°	1367.1	1358.7	1342.0	1340.2	1326.3
52.5°	1280.0	1270.7	1252.1	1250.3	1240.1
55°	1189.1	1178.9	1161.3	1158.5	1150.2
57.5°	1095.5	1082.5	1068.6	1063.1	1056.6
60°	996.3	984.3	968.5	963.0	960.2
62.5°	893.5	881.4	869.4	863.8	860.1
65°	788.7	779.5	765.6	760.0	757.2
67.5°	682.1	673.8	660.8	654.3	653.4
70°	575.6	567.2	552.4	548.7	547.8
72.5°	469.0	461.6	447.7	444.0	444.0
75°	365.2	358.7	346.6	342.9	342.9
77.5°	266.9	261.4	252.1	247.5	247.5
80°	178.0	174.2	165.9	162.2	161.3
82.5°	102.9	101.0	93.6	89.9	91.8
85°	47.3	45.4	41.7	37.1	38.0
87.5°	12.0	11.1	8.3	6.5	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)