

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: P973252

Luminaire Tested: FLR2-14-70HE-L940-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973252
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-L940-CA080
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 4000CCT & 90cri Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

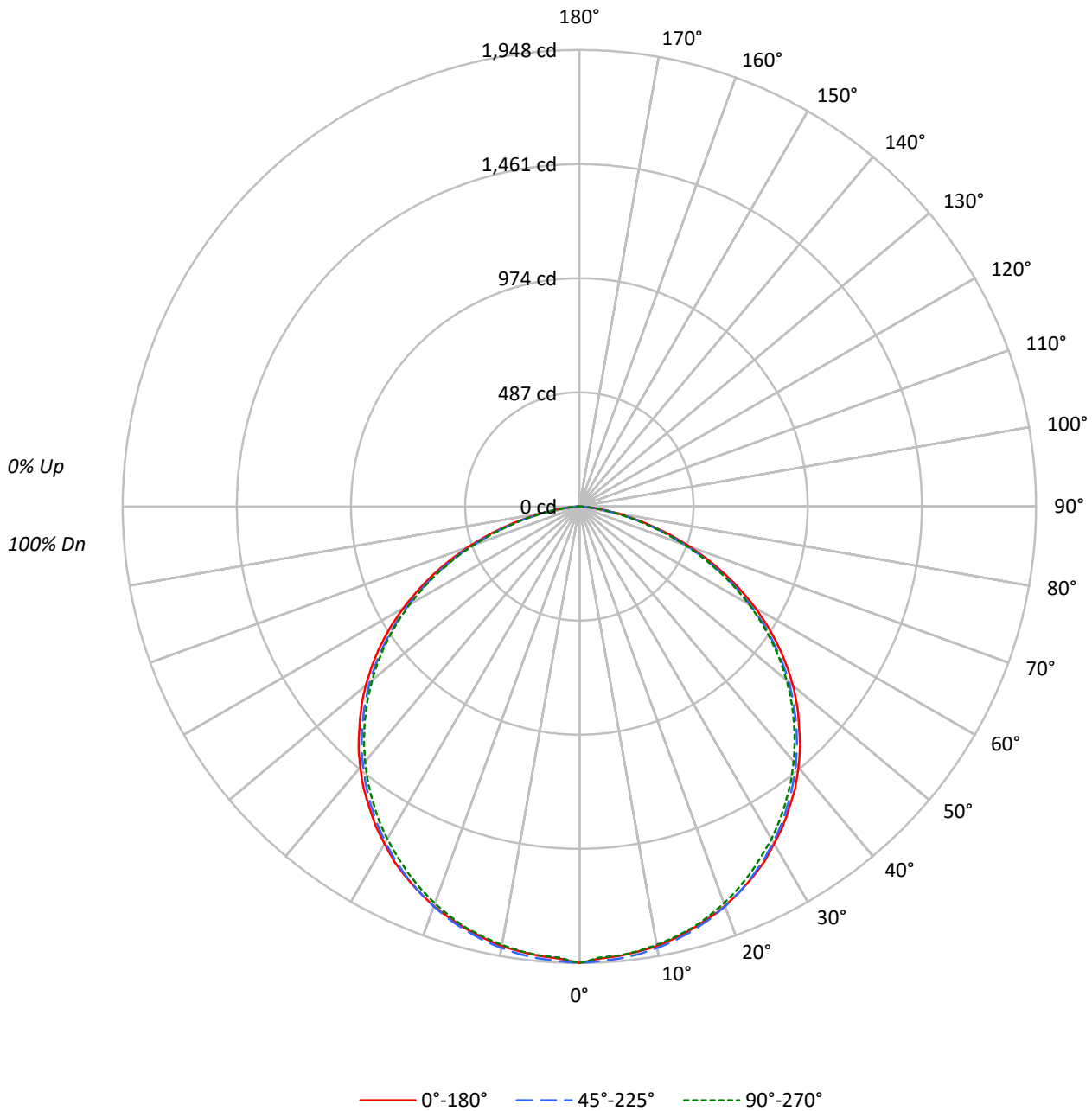
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5452.5 lumens
Efficiency: N/A
Efficacy: 103.9 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									70									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	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°	5242	5242	5242
5°	5201	5232	5195
10°	5206	5228	5191
15°	5198	5218	5187
20°	5198	5202	5161
25°	5186	5176	5128
30°	5164	5141	5091
35°	5136	5096	5046
40°	5107	5045	4994
45°	5045	4974	4922
50°	4979	4888	4831
55°	4853	4740	4695
60°	4665	4535	4496
65°	4369	4241	4195
70°	3939	3781	3749
75°	3303	3136	3101
80°	2399	2236	2174
85°	1269	1121	1022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5045 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	3.4
10°-20°	529.9	9.7
20°-30°	805.1	14.8
30°-40°	973.9	17.9
40°-50°	1012.1	18.6
50°-60°	906.2	16.6
60°-70°	660.9	12.1
70°-80°	325.5	6.0
80°-90°	54.4	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°	1519.5	27.9
0°-40°	2493.4	45.7
0°-60°	4411.7	80.9
0°-90°	5452.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5452.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1926	1946	1937	1955	1923	183
15°	1866	1883	1873	1889	1862	527
25°	1746	1755	1743	1751	1727	805
35°	1564	1567	1551	1558	1536	979
45°	1326	1324	1307	1310	1293	1024
55°	1034	1026	1010	1008	1001	923
65°	686	678	666	661	659	678
75°	318	312	302	298	298	339
85°	41	40	36	32	33	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1948.1	1948.1	1948.1	1948.1	1948.1
2.5°	1931.2	1953.0	1942.5	1961.8	1927.2
5°	1925.5	1946.5	1936.8	1955.4	1923.1
7.5°	1915.9	1937.6	1927.2	1944.9	1914.3
10°	1905.4	1924.7	1913.4	1931.2	1899.7
12.5°	1886.8	1906.2	1895.7	1911.8	1882.8
15°	1865.9	1882.8	1873.1	1889.3	1861.8
17.5°	1841.7	1857.8	1847.3	1861.8	1834.4
20°	1815.1	1828.0	1816.7	1828.8	1802.2
22.5°	1782.0	1794.1	1782.0	1790.1	1766.7
25°	1746.5	1755.4	1743.3	1751.4	1727.2
27.5°	1708.6	1713.5	1701.4	1707.8	1682.8
30°	1661.9	1667.5	1654.6	1662.7	1638.5
32.5°	1616.7	1619.9	1605.4	1611.9	1590.1
35°	1563.5	1566.7	1551.4	1557.9	1536.1
37.5°	1512.7	1511.9	1495.8	1499.8	1481.3
40°	1453.8	1453.0	1436.1	1439.3	1421.6
42.5°	1393.4	1390.1	1374.0	1375.6	1359.5
45°	1325.6	1324.0	1307.1	1309.5	1293.4
47.5°	1260.3	1255.5	1238.5	1239.3	1225.6
50°	1189.4	1182.1	1167.6	1166.0	1153.9
52.5°	1113.6	1105.5	1089.4	1087.8	1078.9
55°	1034.5	1025.7	1010.3	1007.9	1000.7
57.5°	953.1	941.8	929.7	924.9	919.2
60°	866.8	856.3	842.6	837.8	835.4
62.5°	777.3	766.8	756.3	751.5	748.3
65°	686.2	678.1	666.0	661.2	658.8
67.5°	593.5	586.2	574.9	569.3	568.5
70°	500.7	493.5	480.6	477.4	476.5
72.5°	408.0	401.6	389.5	386.2	386.2
75°	317.7	312.1	301.6	298.3	298.3
77.5°	232.2	227.4	219.3	215.3	215.3
80°	154.8	151.6	144.3	141.1	140.3
82.5°	89.5	87.9	81.4	78.2	79.8
85°	41.1	39.5	36.3	32.3	33.1
87.5°	10.5	9.7	7.3	5.6	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)