

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: P973132

Luminaire Tested: FLR2-14-70HE-L835-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973132
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-CP187
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3500CCT & 80CRI Clear Polycarbonate (0.187" thickness)

Light Source:
Ballast/Driver: -

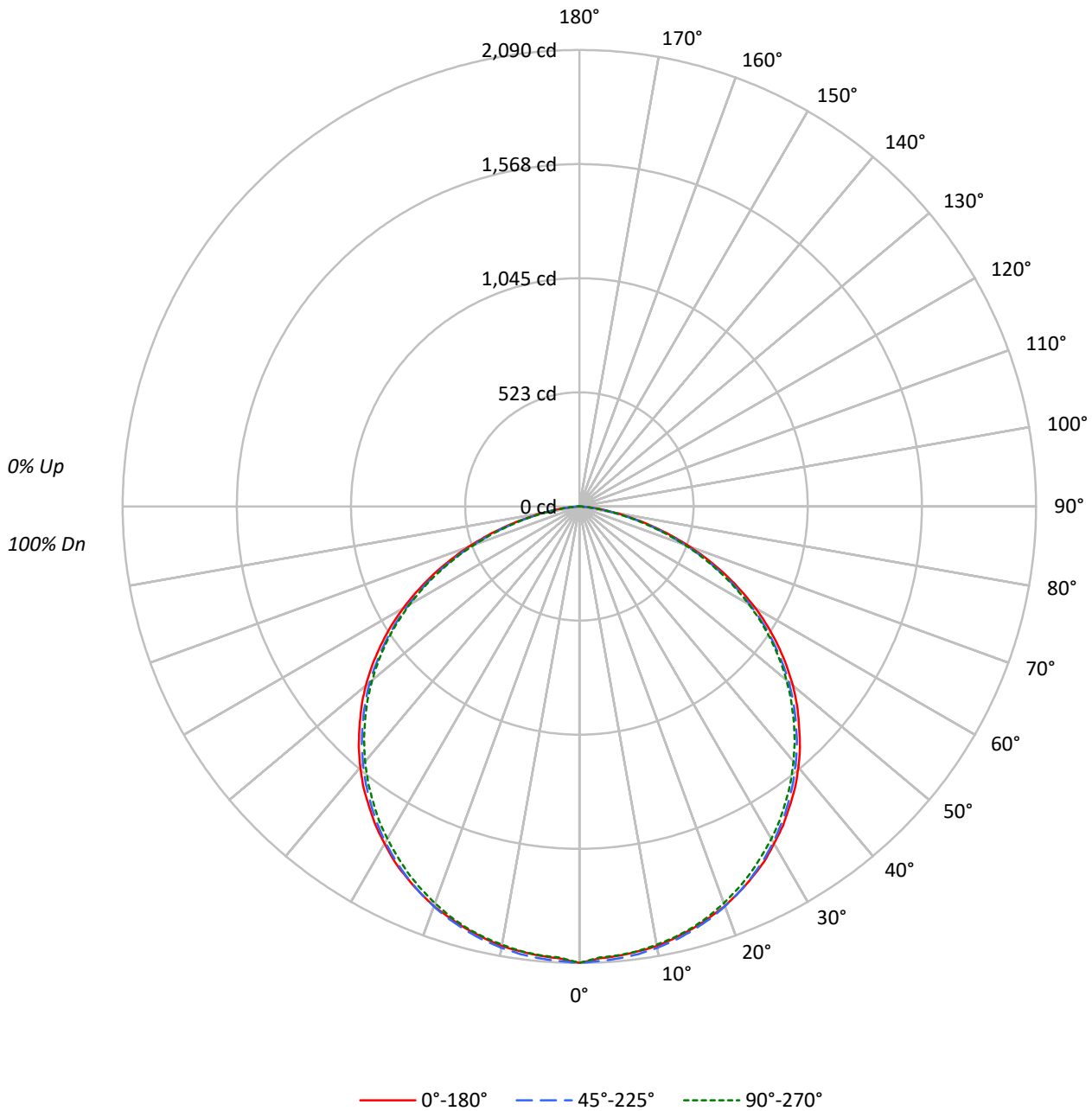
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5848.3 lumens
Efficiency: N/A
Efficacy: 111.4 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	5623	5623	5623
5°	5579	5612	5572
10°	5584	5608	5568
15°	5575	5597	5563
20°	5575	5580	5535
25°	5562	5552	5501
30°	5539	5514	5461
35°	5509	5466	5412
40°	5478	5411	5356
45°	5411	5335	5280
50°	5341	5243	5181
55°	5206	5084	5035
60°	5004	4864	4822
65°	4686	4549	4499
70°	4226	4056	4021
75°	3543	3363	3327
80°	2574	2399	2332
85°	1362	1201	1096

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5411 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	3.4
10°-20°	568.4	9.7
20°-30°	863.5	14.8
30°-40°	1044.5	17.9
40°-50°	1085.6	18.6
50°-60°	972.0	16.6
60°-70°	708.9	12.1
70°-80°	349.1	6.0
80°-90°	58.4	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°	1629.8	27.9
0°-40°	2674.4	45.7
0°-60°	4731.9	80.9
0°-90°	5848.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5848.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2090	2090	2090	2090	2090	
5°	2065	2088	2077	2097	2063	196
15°	2001	2020	2009	2026	1997	565
25°	1873	1883	1870	1878	1853	864
35°	1677	1680	1664	1671	1648	1050
45°	1422	1420	1402	1405	1387	1098
55°	1110	1100	1084	1081	1073	990
65°	736	727	714	709	707	727
75°	341	335	324	320	320	363
85°	44	42	39	35	36	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2089.5	2089.5	2089.5	2089.5	2089.5
2.5°	2071.4	2094.7	2083.5	2104.2	2067.1
5°	2065.3	2087.8	2077.4	2097.3	2062.7
7.5°	2054.9	2078.3	2067.1	2086.1	2053.2
10°	2043.7	2064.5	2052.3	2071.4	2037.6
12.5°	2023.8	2044.6	2033.3	2050.6	2019.5
15°	2001.3	2019.5	2009.1	2026.4	1997.0
17.5°	1975.4	1992.7	1981.4	1997.0	1967.6
20°	1946.8	1960.7	1948.6	1961.5	1933.0
22.5°	1911.4	1924.3	1911.4	1920.0	1894.9
25°	1873.3	1882.8	1869.9	1878.5	1852.6
27.5°	1832.7	1837.9	1824.9	1831.8	1805.0
30°	1782.5	1788.6	1774.7	1783.4	1757.4
32.5°	1734.1	1737.5	1722.0	1728.9	1705.5
35°	1677.0	1680.5	1664.0	1670.9	1647.6
37.5°	1622.5	1621.6	1604.3	1608.7	1588.8
40°	1559.4	1558.5	1540.3	1543.8	1524.8
42.5°	1494.5	1491.0	1473.7	1475.5	1458.2
45°	1421.9	1420.1	1402.0	1404.6	1387.3
47.5°	1351.8	1346.6	1328.4	1329.3	1314.6
50°	1275.7	1267.9	1252.3	1250.6	1237.6
52.5°	1194.4	1185.7	1168.4	1166.7	1157.2
55°	1109.6	1100.1	1083.7	1081.1	1073.3
57.5°	1022.3	1010.2	997.2	992.0	986.0
60°	929.7	918.5	903.8	898.6	896.0
62.5°	833.7	822.5	811.3	806.1	802.6
65°	736.0	727.4	714.4	709.2	706.6
67.5°	636.5	628.8	616.7	610.6	609.7
70°	537.1	529.3	515.5	512.0	511.1
72.5°	437.6	430.7	417.7	414.3	414.3
75°	340.8	334.7	323.5	320.0	320.0
77.5°	249.1	243.9	235.2	230.9	230.9
80°	166.1	162.6	154.8	151.4	150.5
82.5°	96.0	94.3	87.4	83.9	85.6
85°	44.1	42.4	38.9	34.6	35.5
87.5°	11.2	10.4	7.8	6.1	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)