

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: P973197

Luminaire Tested: FLR2-14-70HE-L840-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973197
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-L840-CP125
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 4000CCT & 80CRI Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

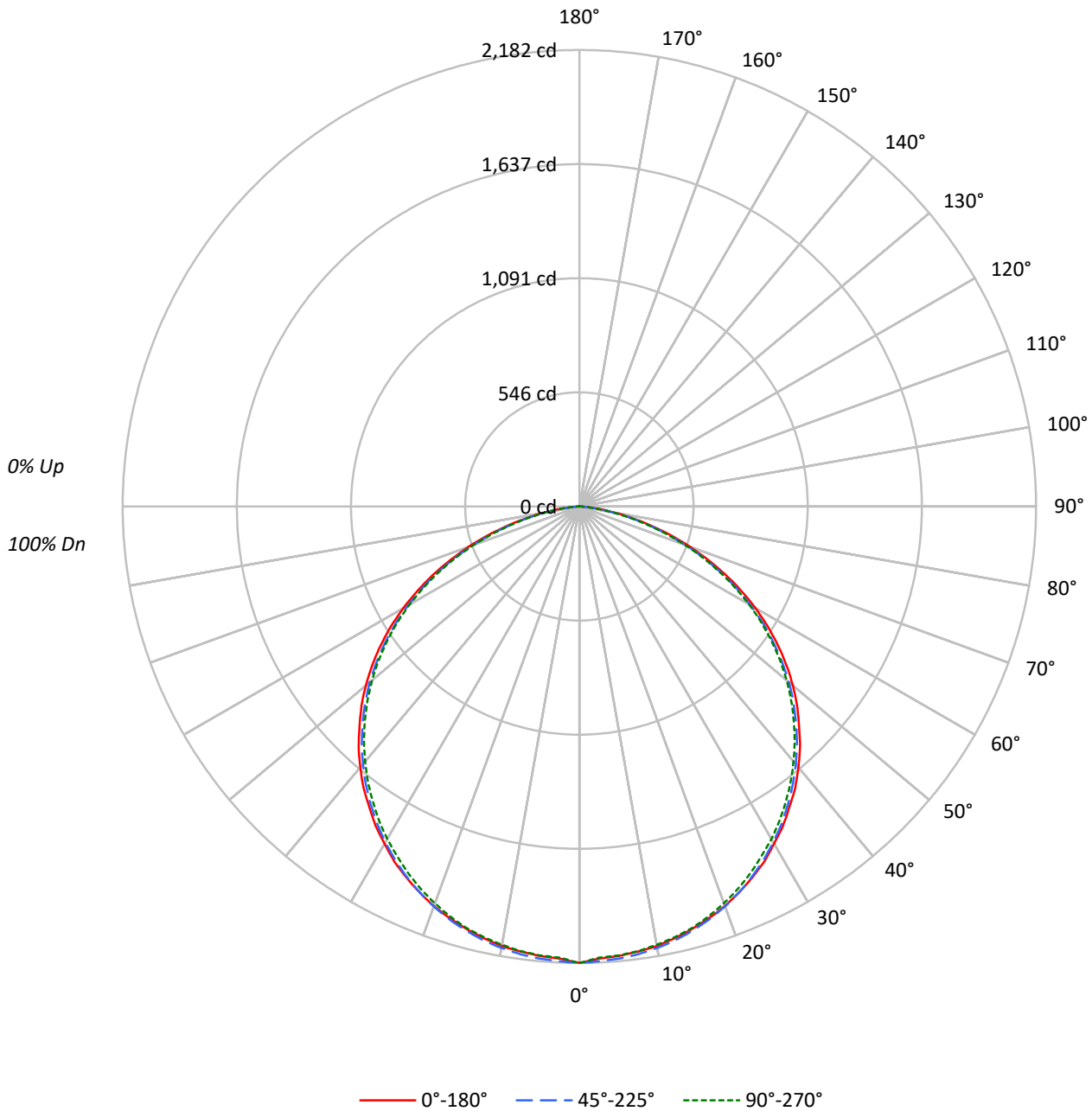
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6107.3 lumens
Efficiency: N/A
Efficacy: 116.3 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°	5872	5872	5872
5°	5826	5860	5819
10°	5832	5856	5814
15°	5822	5845	5810
20°	5822	5827	5781
25°	5809	5798	5744
30°	5784	5759	5702
35°	5753	5708	5652
40°	5720	5650	5593
45°	5651	5571	5513
50°	5577	5475	5411
55°	5437	5309	5258
60°	5225	5079	5036
65°	4894	4750	4699
70°	4413	4235	4200
75°	3699	3512	3475
80°	2687	2506	2436
85°	1423	1254	1142

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5651 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	3.4
10°-20°	593.5	9.7
20°-30°	901.7	14.8
30°-40°	1090.8	17.9
40°-50°	1133.7	18.6
50°-60°	1015.0	16.6
60°-70°	740.3	12.1
70°-80°	364.6	6.0
80°-90°	61.0	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°	1702.0	27.9
0°-40°	2792.8	45.7
0°-60°	4941.4	80.9
0°-90°	6107.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6107.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2182	2182	2182	2182	2182	
5°	2157	2180	2169	2190	2154	205
15°	2090	2109	2098	2116	2085	590
25°	1956	1966	1953	1962	1935	902
35°	1751	1755	1738	1745	1720	1097
45°	1485	1483	1464	1467	1449	1146
55°	1159	1149	1132	1129	1121	1034
65°	769	760	746	741	738	759
75°	356	350	338	334	334	379
85°	46	44	41	36	37	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2182.1	2182.1	2182.1	2182.1	2182.1
2.5°	2163.1	2187.5	2175.7	2197.4	2158.6
5°	2156.8	2180.3	2169.4	2190.2	2154.1
7.5°	2145.9	2170.3	2158.6	2178.5	2144.1
10°	2134.2	2155.9	2143.2	2163.1	2127.9
12.5°	2113.4	2135.1	2123.4	2141.4	2108.9
15°	2089.9	2108.9	2098.1	2116.1	2085.4
17.5°	2062.8	2080.9	2069.2	2085.4	2054.7
20°	2033.0	2047.5	2034.8	2048.4	2018.6
22.5°	1996.0	2009.6	1996.0	2005.0	1978.9
25°	1956.3	1966.2	1952.7	1961.7	1934.6
27.5°	1913.8	1919.2	1905.7	1912.9	1884.9
30°	1861.4	1867.8	1853.3	1862.3	1835.2
32.5°	1810.9	1814.5	1798.2	1805.4	1781.1
35°	1751.3	1754.9	1737.7	1744.9	1720.5
37.5°	1694.4	1693.4	1675.4	1679.9	1659.1
40°	1628.4	1627.5	1608.5	1612.2	1592.3
42.5°	1560.7	1557.1	1539.0	1540.8	1522.7
45°	1484.8	1483.0	1464.0	1466.8	1448.7
47.5°	1411.7	1406.2	1387.3	1388.2	1372.8
50°	1332.2	1324.1	1307.8	1306.0	1292.4
52.5°	1247.3	1238.2	1220.2	1218.4	1208.4
55°	1158.8	1148.8	1131.7	1129.0	1120.8
57.5°	1067.5	1054.9	1041.4	1035.9	1029.6
60°	970.9	959.2	943.8	938.4	935.7
62.5°	870.7	858.9	847.2	841.8	838.1
65°	768.6	759.6	746.0	740.6	737.9
67.5°	664.7	656.6	644.0	637.6	636.7
70°	560.9	552.7	538.3	534.7	533.8
72.5°	457.0	449.8	436.2	432.6	432.6
75°	355.8	349.5	337.8	334.2	334.2
77.5°	260.1	254.7	245.7	241.1	241.1
80°	173.4	169.8	161.7	158.1	157.2
82.5°	100.3	98.4	91.2	87.6	89.4
85°	46.1	44.3	40.6	36.1	37.0
87.5°	11.7	10.8	8.1	6.3	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)