

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: P973212

Luminaire Tested: FLR2-14-70HE-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973212
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-CP375
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 4000CCT & 80CRI Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

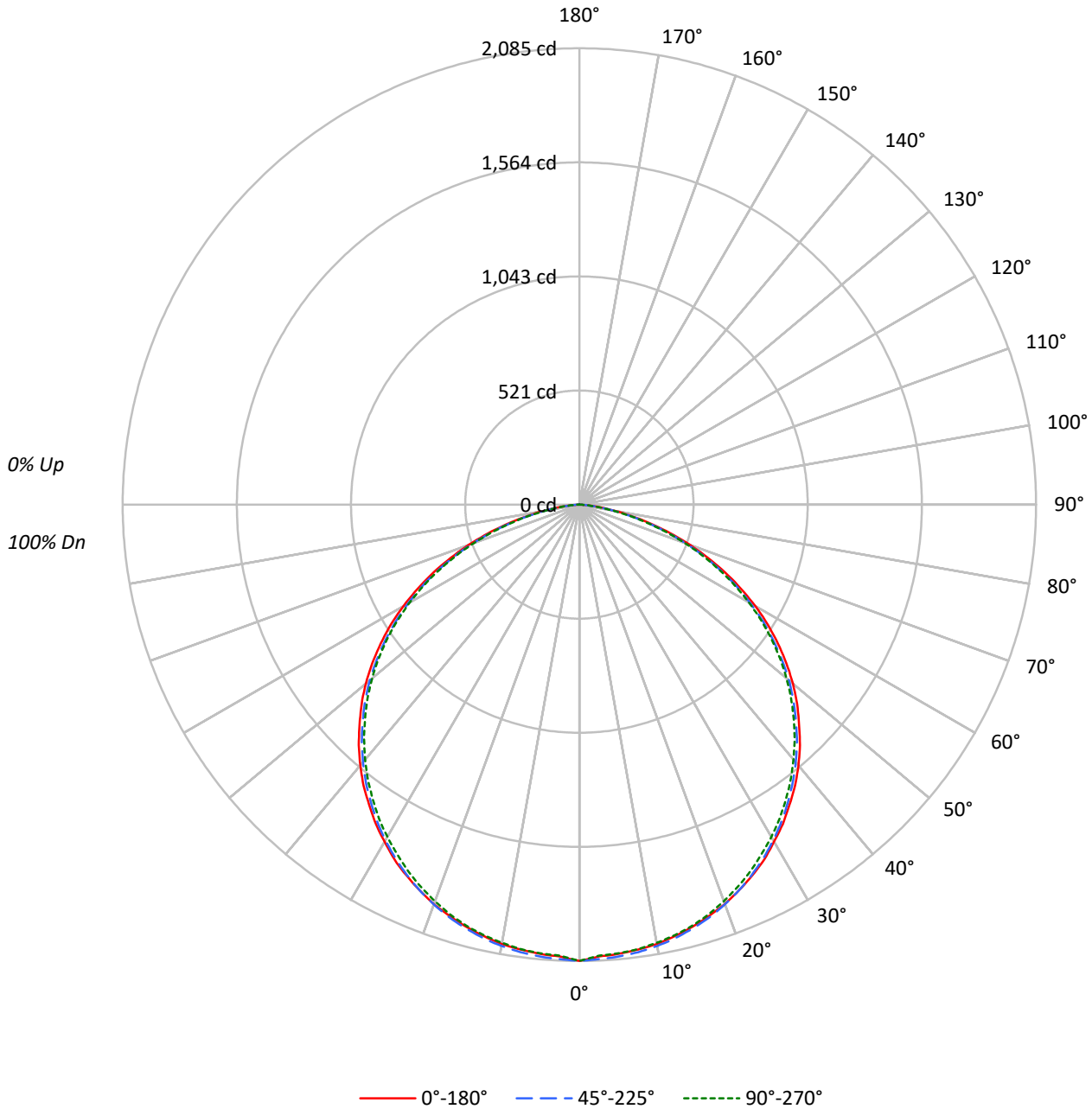
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5834.7 lumens
Efficiency: N/A
Efficacy: 111.1 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																				
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°	5610	5610	5610
5°	5566	5599	5559
10°	5571	5595	5555
15°	5563	5584	5550
20°	5562	5567	5523
25°	5549	5539	5488
30°	5526	5502	5448
35°	5496	5454	5400
40°	5465	5399	5344
45°	5398	5323	5267
50°	5328	5231	5169
55°	5194	5073	5024
60°	4992	4853	4811
65°	4676	4538	4489
70°	4216	4046	4013
75°	3535	3355	3320
80°	2568	2394	2326
85°	1359	1198	1093

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5398 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.5	3.4
10°-20°	567.1	9.7
20°-30°	861.5	14.8
30°-40°	1042.1	17.9
40°-50°	1083.1	18.6
50°-60°	969.7	16.6
60°-70°	707.3	12.1
70°-80°	348.3	6.0
80°-90°	58.2	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°	1626.0	27.9
0°-40°	2668.1	45.7
0°-60°	4720.9	80.9
0°-90°	5834.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5834.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2085	2085	2085	2085	2085	
5°	2060	2083	2073	2092	2058	196
15°	1997	2015	2004	2022	1992	564
25°	1869	1878	1866	1874	1848	862
35°	1673	1676	1660	1667	1644	1048
45°	1418	1417	1399	1401	1384	1095
55°	1107	1098	1081	1079	1071	988
65°	734	726	713	708	705	725
75°	340	334	323	319	319	362
85°	44	42	39	34	35	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2084.7	2084.7	2084.7	2084.7	2084.7
2.5°	2066.5	2089.8	2078.6	2099.3	2062.2
5°	2060.5	2082.9	2072.6	2092.4	2057.9
7.5°	2050.2	2073.5	2062.2	2081.2	2048.4
10°	2038.9	2059.6	2047.6	2066.5	2032.9
12.5°	2019.1	2039.8	2028.6	2045.8	2014.8
15°	1996.7	2014.8	2004.4	2021.7	1992.3
17.5°	1970.8	1988.0	1976.8	1992.3	1963.0
20°	1942.3	1956.1	1944.0	1957.0	1928.5
22.5°	1906.9	1919.9	1906.9	1915.5	1890.5
25°	1869.0	1878.4	1865.5	1874.1	1848.2
27.5°	1828.4	1833.6	1820.6	1827.5	1800.8
30°	1778.4	1784.4	1770.6	1779.2	1753.3
32.5°	1730.0	1733.5	1718.0	1724.9	1701.6
35°	1673.1	1676.5	1660.1	1667.0	1643.7
37.5°	1618.7	1617.9	1600.6	1604.9	1585.1
40°	1555.7	1554.9	1536.8	1540.2	1521.2
42.5°	1491.0	1487.6	1470.3	1472.0	1454.8
45°	1418.5	1416.8	1398.7	1401.3	1384.0
47.5°	1348.6	1343.5	1325.4	1326.2	1311.5
50°	1272.7	1265.0	1249.4	1247.7	1234.8
52.5°	1191.6	1183.0	1165.7	1164.0	1154.5
55°	1107.0	1097.6	1081.2	1078.6	1070.8
57.5°	1019.9	1007.8	994.9	989.7	983.7
60°	927.6	916.4	901.7	896.5	893.9
62.5°	831.8	820.6	809.4	804.2	800.7
65°	734.3	725.7	712.7	707.5	705.0
67.5°	635.1	627.3	615.2	609.2	608.3
70°	535.8	528.1	514.3	510.8	510.0
72.5°	436.6	429.7	416.8	413.3	413.3
75°	340.0	333.9	322.7	319.3	319.3
77.5°	248.5	243.3	234.7	230.4	230.4
80°	165.7	162.2	154.5	151.0	150.1
82.5°	95.8	94.1	87.1	83.7	85.4
85°	44.0	42.3	38.8	34.5	35.4
87.5°	11.2	10.4	7.8	6.0	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)