

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: P973207

Luminaire Tested: FLR2-14-70HE-L840-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973207
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-CP250
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 4000CCT & 80CRI Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

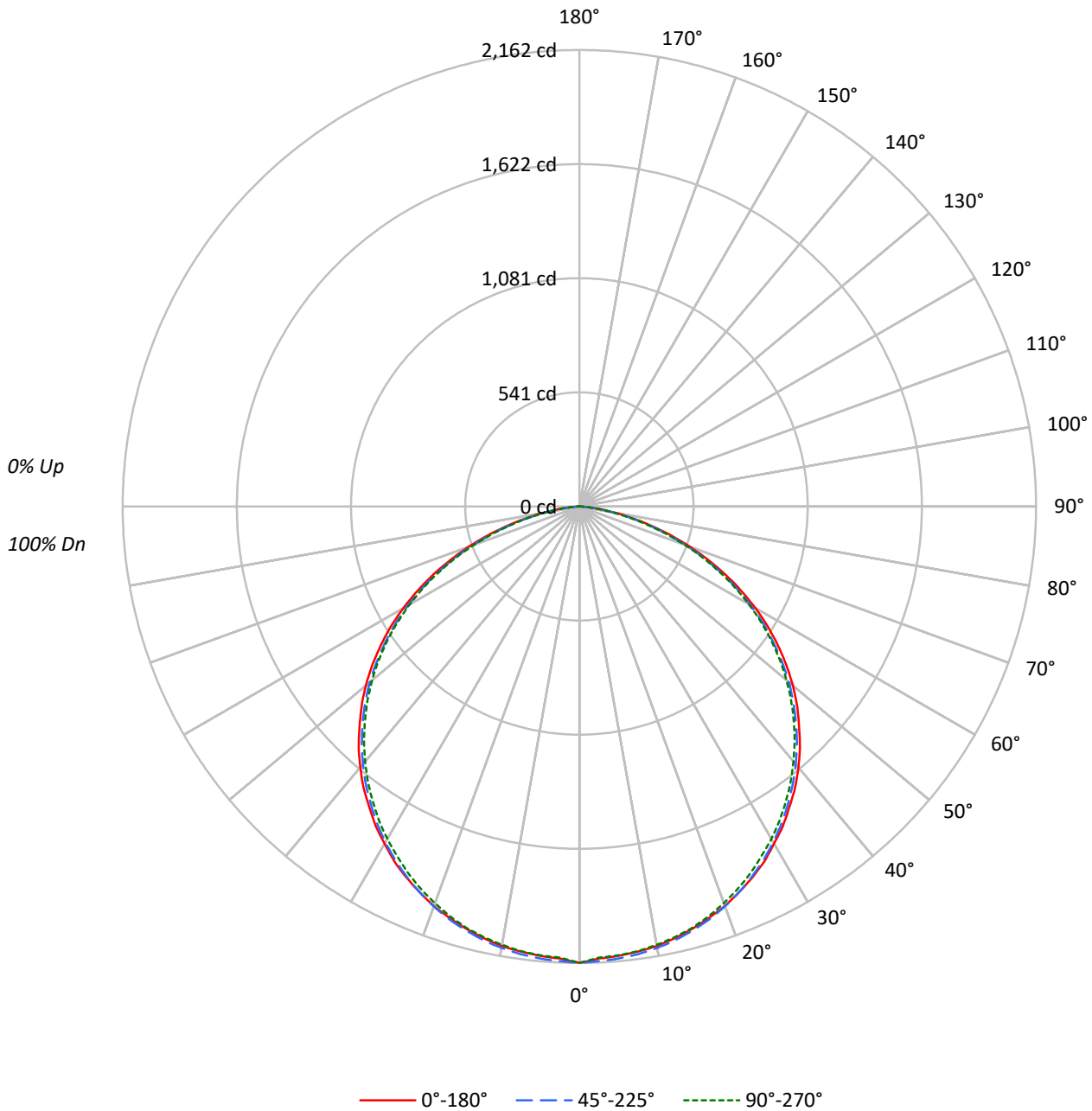
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6050.5 lumens
Efficiency: N/A
Efficacy: 115.2 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

TEST NUMBER: P973207
CATALOG NUMBER: FLR2-14-70HE-L840-CP250

Luminous Intensity Polar Plot





TEST NUMBER: P973207
 CATALOG NUMBER: FLR2-14-70HE-L840-CP250

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°	5817	5817	5817
5°	5772	5806	5764
10°	5777	5802	5760
15°	5768	5791	5756
20°	5768	5773	5727
25°	5755	5744	5691
30°	5730	5705	5650
35°	5700	5655	5599
40°	5667	5598	5541
45°	5598	5520	5462
50°	5525	5424	5360
55°	5386	5260	5210
60°	5177	5032	4989
65°	4848	4706	4655
70°	4372	4196	4161
75°	3665	3479	3442
80°	2662	2483	2413
85°	1408	1244	1133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5598 cd/sqm



TEST NUMBER: P973207
 CATALOG NUMBER: FLR2-14-70HE-L840-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	3.4
10°-20°	588.0	9.7
20°-30°	893.3	14.8
30°-40°	1080.6	17.9
40°-50°	1123.1	18.6
50°-60°	1005.6	16.6
60°-70°	733.4	12.1
70°-80°	361.2	6.0
80°-90°	60.4	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°	1686.1	27.9
0°-40°	2766.8	45.7
0°-60°	4895.5	80.9
0°-90°	6050.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6050.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2162	2162	2162	2162	2162	
5°	2137	2160	2149	2170	2134	203
15°	2070	2089	2078	2096	2066	585
25°	1938	1948	1934	1943	1917	893
35°	1735	1738	1722	1729	1704	1087
45°	1471	1469	1450	1453	1435	1136
55°	1148	1138	1121	1118	1110	1025
65°	761	752	739	734	731	752
75°	352	346	335	331	331	376
85°	46	44	40	36	37	66
90°	0	0	0	0	0	



TEST NUMBER: P973207
 CATALOG NUMBER: FLR2-14-70HE-L840-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2161.8	2161.8	2161.8	2161.8	2161.8
2.5°	2143.0	2167.1	2155.5	2177.0	2138.5
5°	2136.7	2160.0	2149.2	2169.8	2134.0
7.5°	2126.0	2150.1	2138.5	2158.2	2124.2
10°	2114.3	2135.8	2123.3	2143.0	2108.1
12.5°	2093.8	2115.2	2103.6	2121.5	2089.3
15°	2070.5	2089.3	2078.5	2096.4	2066.0
17.5°	2043.6	2061.5	2049.9	2066.0	2035.6
20°	2014.1	2028.4	2015.9	2029.3	1999.8
22.5°	1977.4	1990.9	1977.4	1986.4	1960.4
25°	1938.1	1947.9	1934.5	1943.4	1916.6
27.5°	1896.0	1901.4	1888.0	1895.1	1867.4
30°	1844.1	1850.4	1836.1	1845.0	1818.2
32.5°	1794.0	1797.6	1781.5	1788.6	1764.5
35°	1735.0	1738.5	1721.5	1728.7	1704.5
37.5°	1678.6	1677.7	1659.8	1664.3	1643.7
40°	1613.3	1612.4	1593.6	1597.2	1577.5
42.5°	1546.2	1542.6	1524.7	1526.5	1508.6
45°	1471.0	1469.2	1450.4	1453.1	1435.2
47.5°	1398.5	1393.2	1374.4	1375.3	1360.0
50°	1319.8	1311.7	1295.6	1293.8	1280.4
52.5°	1235.7	1226.7	1208.8	1207.0	1197.2
55°	1148.0	1138.1	1121.1	1118.5	1110.4
57.5°	1057.6	1045.1	1031.7	1026.3	1020.0
60°	961.9	950.2	935.0	929.7	927.0
62.5°	862.6	850.9	839.3	833.9	830.3
65°	761.4	752.5	739.1	733.7	731.0
67.5°	658.5	650.5	638.0	631.7	630.8
70°	555.7	547.6	533.3	529.7	528.8
72.5°	452.8	445.6	432.2	428.6	428.6
75°	352.5	346.3	334.6	331.1	331.1
77.5°	257.7	252.3	243.4	238.9	238.9
80°	171.8	168.2	160.2	156.6	155.7
82.5°	99.3	97.5	90.4	86.8	88.6
85°	45.6	43.8	40.3	35.8	36.7
87.5°	11.6	10.7	8.1	6.3	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)