

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: P973057

Luminaire Tested: FLR2-14-70HE-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973057
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-L830-CP125
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3000CCT & 80CRI Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

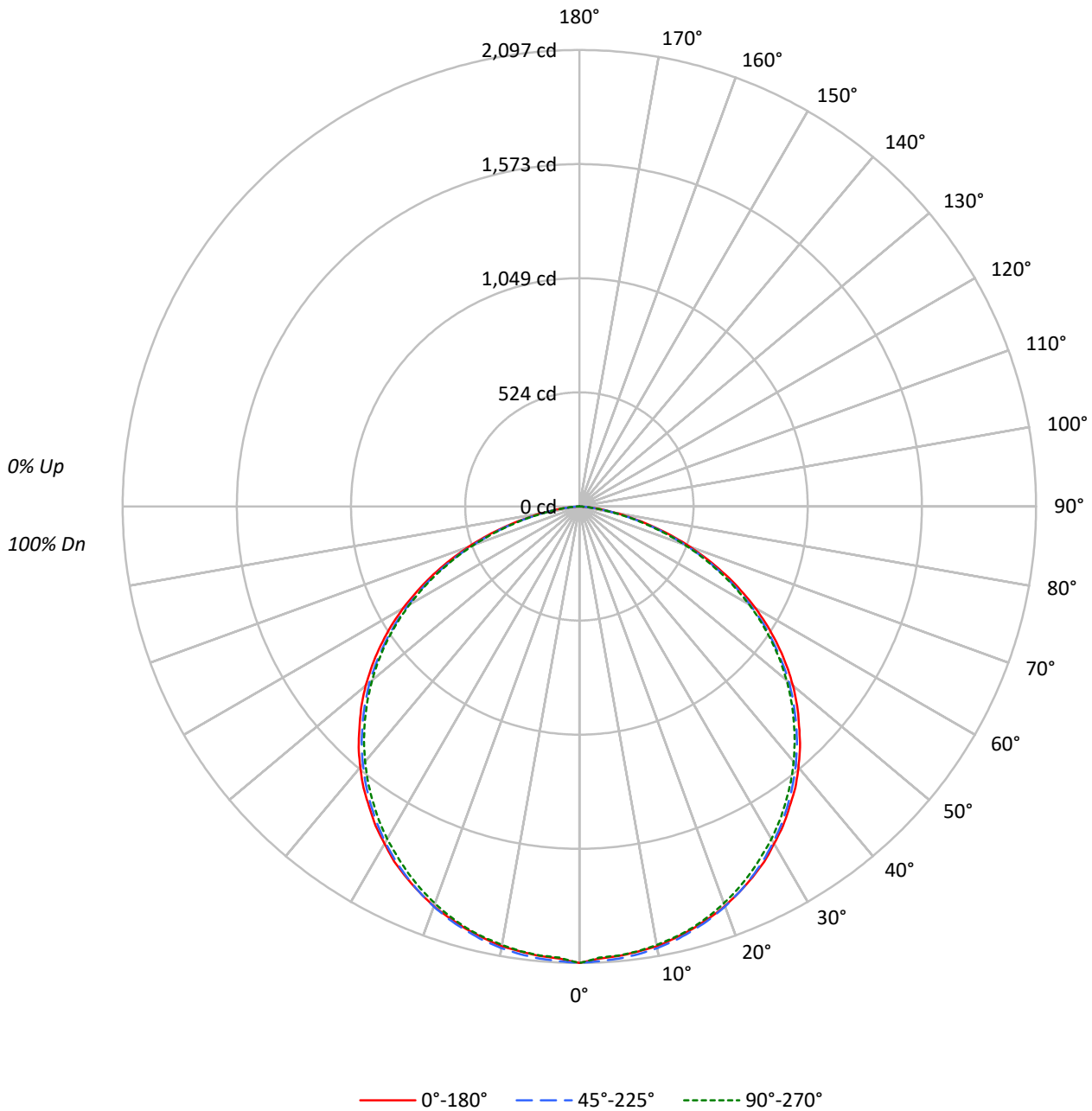
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5870.1 lumens
Efficiency: N/A
Efficacy: 111.8 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: P973057
CATALOG NUMBER: FLR2-14-70HE-L830-CP125

Luminous Intensity Polar Plot





TEST NUMBER: P973057
 CATALOG NUMBER: FLR2-14-70HE-L830-CP125

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	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°	5644	5644	5644
5°	5600	5633	5593
10°	5605	5629	5588
15°	5596	5618	5584
20°	5596	5601	5556
25°	5583	5573	5521
30°	5559	5535	5481
35°	5529	5487	5433
40°	5498	5431	5376
45°	5431	5355	5299
50°	5360	5262	5200
55°	5225	5103	5054
60°	5022	4883	4840
65°	4704	4565	4516
70°	4242	4071	4036
75°	3556	3376	3340
80°	2583	2408	2340
85°	1368	1207	1099

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5431 cd/sqm



TEST NUMBER: P973057
 CATALOG NUMBER: FLR2-14-70HE-L830-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.7	3.4
10°-20°	570.5	9.7
20°-30°	866.7	14.8
30°-40°	1048.4	17.9
40°-50°	1089.6	18.6
50°-60°	975.6	16.6
60°-70°	711.6	12.1
70°-80°	350.4	6.0
80°-90°	58.6	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°	1635.9	27.9
0°-40°	2684.3	45.7
0°-60°	4749.5	80.9
0°-90°	5870.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5870.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2097	2097	2097	2097	2097	
5°	2073	2096	2085	2105	2070	197
15°	2009	2027	2017	2034	2004	567
25°	1880	1890	1877	1886	1860	867
35°	1683	1687	1670	1677	1654	1054
45°	1427	1425	1407	1410	1392	1102
55°	1114	1104	1088	1085	1077	994
65°	739	730	717	712	709	730
75°	342	336	325	321	321	365
85°	44	42	39	35	36	64
90°	0	0	0	0	0	



TEST NUMBER: P973057
 CATALOG NUMBER: FLR2-14-70HE-L830-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2097.3	2097.3	2097.3	2097.3	2097.3
2.5°	2079.1	2102.5	2091.2	2112.1	2074.8
5°	2073.0	2095.6	2085.2	2105.1	2070.4
7.5°	2062.6	2086.0	2074.8	2093.9	2060.9
10°	2051.3	2072.1	2060.0	2079.1	2045.2
12.5°	2031.3	2052.2	2040.9	2058.3	2027.0
15°	2008.8	2027.0	2016.6	2034.0	2004.4
17.5°	1982.7	2000.1	1988.8	2004.4	1974.9
20°	1954.1	1968.0	1955.8	1968.8	1940.2
22.5°	1918.5	1931.5	1918.5	1927.2	1902.0
25°	1880.3	1889.8	1876.8	1885.5	1859.5
27.5°	1839.5	1844.7	1831.7	1838.6	1811.7
30°	1789.1	1795.2	1781.3	1790.0	1764.0
32.5°	1740.5	1744.0	1728.4	1735.3	1711.9
35°	1683.2	1686.7	1670.2	1677.2	1653.7
37.5°	1628.6	1627.7	1610.3	1614.7	1594.7
40°	1565.2	1564.3	1546.1	1549.6	1530.5
42.5°	1500.1	1496.6	1479.2	1481.0	1463.6
45°	1427.2	1425.4	1407.2	1409.8	1392.4
47.5°	1356.8	1351.6	1333.4	1334.3	1319.5
50°	1280.4	1272.6	1257.0	1255.3	1242.2
52.5°	1198.8	1190.2	1172.8	1171.1	1161.5
55°	1113.8	1104.2	1087.7	1085.1	1077.3
57.5°	1026.1	1013.9	1000.9	995.7	989.6
60°	933.2	921.9	907.2	902.0	899.3
62.5°	836.8	825.6	814.3	809.1	805.6
65°	738.8	730.1	717.0	711.8	709.2
67.5°	638.9	631.1	619.0	612.9	612.0
70°	539.1	531.3	517.4	513.9	513.0
72.5°	439.3	432.3	419.3	415.8	415.8
75°	342.0	336.0	324.7	321.2	321.2
77.5°	250.0	244.8	236.1	231.8	231.8
80°	166.7	163.2	155.4	151.9	151.0
82.5°	96.4	94.6	87.7	84.2	85.9
85°	44.3	42.5	39.1	34.7	35.6
87.5°	11.3	10.4	7.8	6.1	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)