

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: P973072

Luminaire Tested: FLR2-14-70HE-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973072
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-CP375
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3000CCT & 80CRI Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

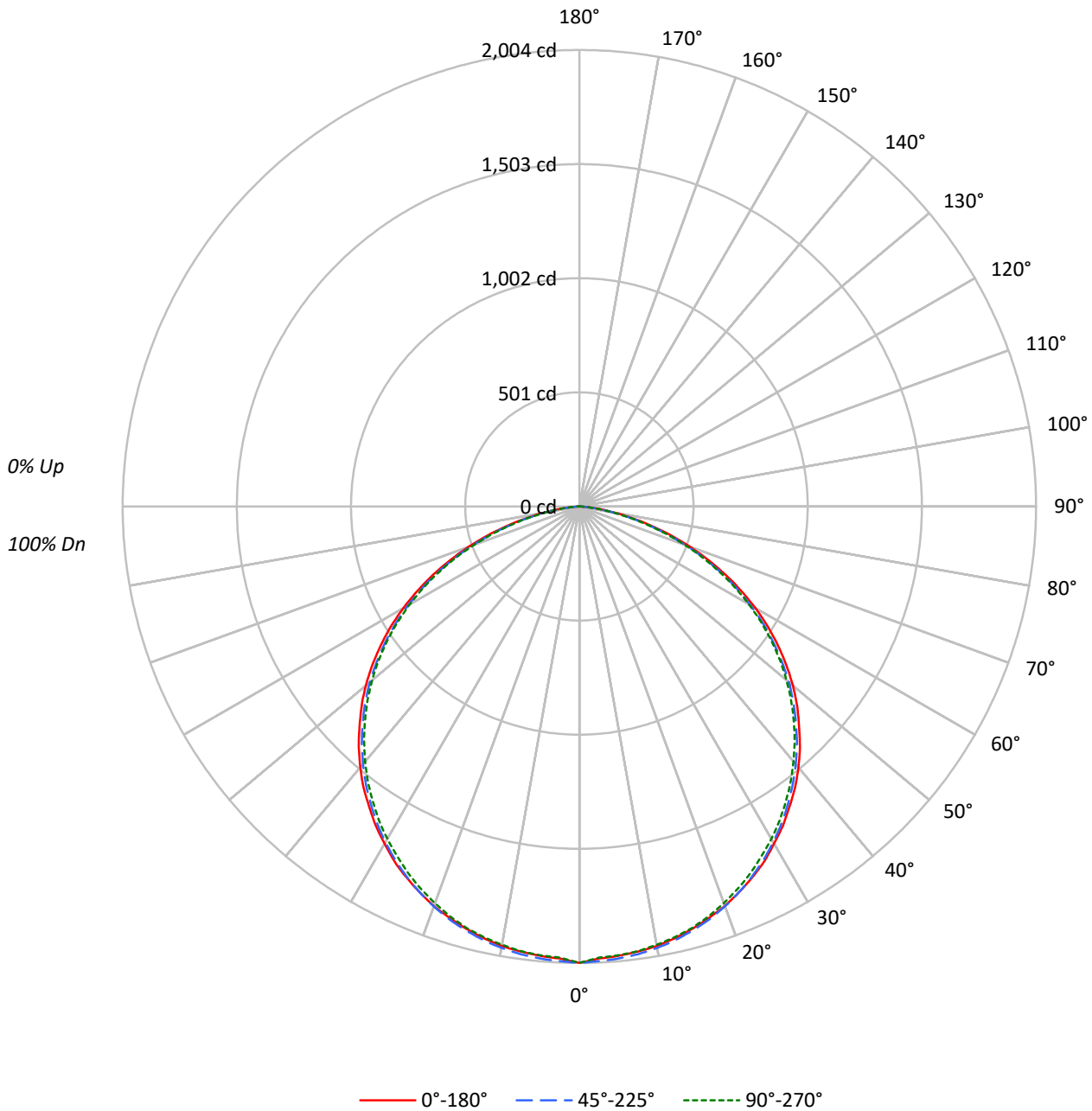
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5608.1 lumens
Efficiency: N/A
Efficacy: 106.8 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

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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	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°	5392	5392	5392
5°	5350	5381	5343
10°	5355	5378	5339
15°	5346	5367	5335
20°	5346	5351	5308
25°	5334	5324	5275
30°	5311	5288	5236
35°	5283	5242	5190
40°	5253	5189	5136
45°	5189	5116	5063
50°	5121	5027	4968
55°	4992	4875	4829
60°	4799	4665	4624
65°	4494	4362	4315
70°	4052	3889	3856
75°	3398	3225	3191
80°	2467	2301	2236
85°	1306	1152	1050

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5189 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.8	3.4
10°-20°	545.0	9.7
20°-30°	828.0	14.8
30°-40°	1001.6	17.9
40°-50°	1041.0	18.6
50°-60°	932.0	16.6
60°-70°	679.8	12.1
70°-80°	334.8	6.0
80°-90°	56.0	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°	1562.9	27.9
0°-40°	2564.5	45.7
0°-60°	4537.6	80.9
0°-90°	5608.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5608.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2004	2004	2004	2004	2004	
5°	1980	2002	1992	2011	1978	188
15°	1919	1936	1927	1943	1915	542
25°	1796	1806	1793	1801	1776	828
35°	1608	1611	1596	1602	1580	1007
45°	1364	1362	1344	1347	1330	1053
55°	1064	1055	1039	1037	1029	950
65°	706	698	685	680	678	697
75°	327	321	310	307	307	348
85°	42	41	37	33	34	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2003.7	2003.7	2003.7	2003.7	2003.7
2.5°	1986.3	2008.7	1997.9	2017.8	1982.1
5°	1980.5	2002.1	1992.1	2011.2	1978.0
7.5°	1970.5	1992.9	1982.1	2000.4	1968.9
10°	1959.8	1979.7	1968.0	1986.3	1953.9
12.5°	1940.7	1960.6	1949.8	1966.4	1936.5
15°	1919.1	1936.5	1926.6	1943.2	1915.0
17.5°	1894.2	1910.8	1900.0	1915.0	1886.8
20°	1866.9	1880.1	1868.5	1881.0	1853.6
22.5°	1832.9	1845.3	1832.9	1841.2	1817.1
25°	1796.4	1805.5	1793.1	1801.3	1776.5
27.5°	1757.4	1762.4	1749.9	1756.6	1730.9
30°	1709.3	1715.1	1701.8	1710.1	1685.2
32.5°	1662.8	1666.2	1651.2	1657.9	1635.5
35°	1608.1	1611.4	1595.7	1602.3	1579.9
37.5°	1555.9	1555.0	1538.4	1542.6	1523.5
40°	1495.3	1494.5	1477.1	1480.4	1462.1
42.5°	1433.1	1429.8	1413.2	1414.9	1398.3
45°	1363.5	1361.8	1344.4	1346.9	1330.3
47.5°	1296.3	1291.3	1273.9	1274.7	1260.6
50°	1223.3	1215.8	1200.9	1199.2	1186.8
52.5°	1145.3	1137.0	1120.5	1118.8	1109.7
55°	1064.1	1054.9	1039.2	1036.7	1029.2
57.5°	980.3	968.7	956.2	951.3	945.5
60°	891.6	880.8	866.7	861.7	859.2
62.5°	799.5	788.7	777.9	773.0	769.6
65°	705.8	697.5	685.0	680.1	677.6
67.5°	610.4	602.9	591.3	585.5	584.7
70°	515.0	507.6	494.3	491.0	490.1
72.5°	419.7	413.0	400.6	397.3	397.3
75°	326.8	321.0	310.2	306.9	306.9
77.5°	238.9	233.9	225.6	221.4	221.4
80°	159.2	155.9	148.5	145.1	144.3
82.5°	92.1	90.4	83.8	80.4	82.1
85°	42.3	40.6	37.3	33.2	34.0
87.5°	10.8	10.0	7.5	5.8	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)