

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: P973354

Luminaire Tested: FLR2-14-30-L930-CP125

Issue Date: 3/13/2025

**Test Information**

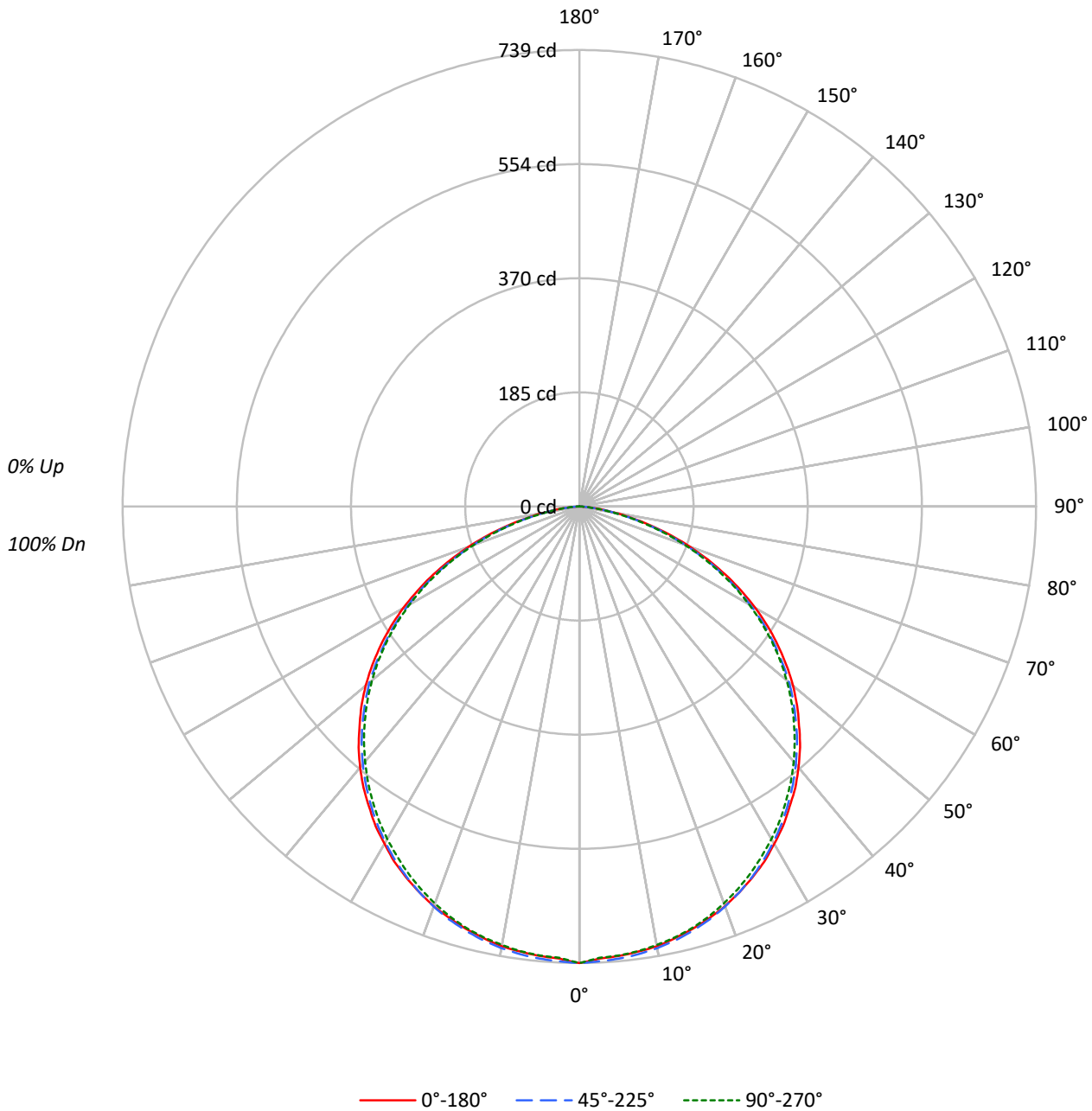
Test Method: LM-79-2019  
Report Number: P973354  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30-L930-CP125  
Description: 1\*4 FLR-2.0 3000 LUMEN at 3000CCT & 80CRI with Clear Polycarbonate (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2069.1 lumens  
Efficiency: N/A  
Efficacy: 86.6 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): 23.9  
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°	1989	1989	1989
5°	1974	1985	1971
10°	1976	1984	1970
15°	1973	1980	1968
20°	1973	1974	1958
25°	1968	1964	1946
30°	1959	1951	1932
35°	1949	1934	1915
40°	1938	1914	1895
45°	1914	1888	1868
50°	1889	1855	1833
55°	1842	1799	1781
60°	1770	1721	1706
65°	1658	1609	1592
70°	1495	1435	1423
75°	1254	1189	1177
80°	911	849	824
85°	482	426	386

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1914 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.0	3.4
10°-20°	201.1	9.7
20°-30°	305.5	14.8
30°-40°	369.6	17.9
40°-50°	384.1	18.6
50°-60°	343.9	16.6
60°-70°	250.8	12.1
70°-80°	123.5	6.0
80°-90°	20.7	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°	576.6	27.9
0°-40°	946.2	45.7
0°-60°	1674.1	80.9
0°-90°	2069.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2069.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	731	739	735	742	730	70
15°	708	714	711	717	706	200
25°	663	666	662	665	655	306
35°	593	594	589	591	583	372
45°	503	502	496	497	491	388
55°	393	389	383	382	380	350
65°	260	257	253	251	250	257
75°	121	118	114	113	113	129
85°	16	15	14	12	12	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	739.3	739.3	739.3	739.3	739.3
2.5°	732.8	741.1	737.1	744.5	731.3
5°	730.7	738.7	735.0	742.0	729.8
7.5°	727.0	735.3	731.3	738.0	726.4
10°	723.1	730.4	726.1	732.8	720.9
12.5°	716.0	723.4	719.4	725.5	714.5
15°	708.1	714.5	710.8	716.9	706.5
17.5°	698.9	705.0	701.0	706.5	696.1
20°	688.8	693.7	689.4	694.0	683.9
22.5°	676.2	680.8	676.2	679.3	670.4
25°	662.8	666.1	661.6	664.6	655.4
27.5°	648.4	650.2	645.6	648.1	638.6
30°	630.6	632.8	627.9	631.0	621.8
32.5°	613.5	614.7	609.2	611.7	603.4
35°	593.3	594.5	588.7	591.2	582.9
37.5°	574.0	573.7	567.6	569.1	562.1
40°	551.7	551.4	545.0	546.2	539.5
42.5°	528.8	527.5	521.4	522.0	515.9
45°	503.0	502.4	496.0	496.9	490.8
47.5°	478.3	476.4	470.0	470.3	465.1
50°	451.3	448.6	443.1	442.5	437.9
52.5°	422.6	419.5	413.4	412.8	409.4
55°	392.6	389.2	383.4	382.5	379.7
57.5°	361.7	357.4	352.8	351.0	348.8
60°	328.9	325.0	319.8	317.9	317.0
62.5°	295.0	291.0	287.0	285.2	284.0
65°	260.4	257.3	252.7	250.9	250.0
67.5°	225.2	222.5	218.2	216.0	215.7
70°	190.0	187.3	182.4	181.1	180.8
72.5°	154.8	152.4	147.8	146.6	146.6
75°	120.6	118.4	114.4	113.2	113.2
77.5°	88.1	86.3	83.2	81.7	81.7
80°	58.8	57.5	54.8	53.5	53.2
82.5°	34.0	33.4	30.9	29.7	30.3
85°	15.6	15.0	13.8	12.2	12.5
87.5°	4.0	3.7	2.8	2.1	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)