

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: P973366

Luminaire Tested: FLR2-14-30-L930-CA080

Issue Date: 3/13/2025

**Test Information**

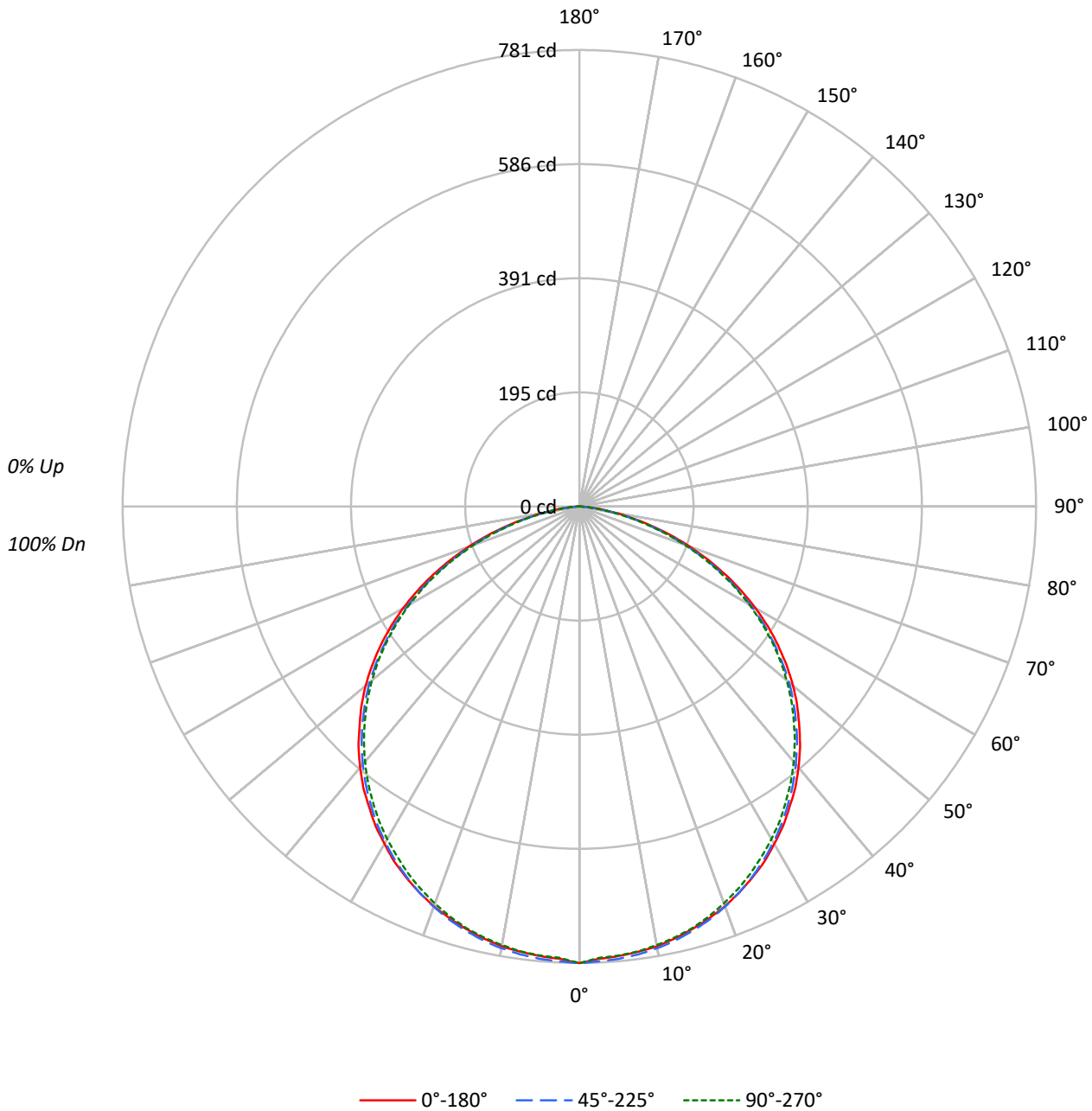
Test Method: LM-79-2019  
Report Number: P973366  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30-L930-CA080  
Description: 1\*4 FLR-2.0 3000 LUMEN at 3000CCT & 90CRI with Clear Acrylic (0.080" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2187.0 lumens  
Efficiency: N/A  
Efficacy: 91.5 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	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°	2103	2103	2103
5°	2086	2099	2084
10°	2088	2097	2082
15°	2085	2093	2081
20°	2085	2087	2070
25°	2080	2076	2057
30°	2071	2062	2042
35°	2060	2044	2024
40°	2048	2023	2003
45°	2023	1995	1974
50°	1997	1961	1937
55°	1947	1901	1883
60°	1871	1819	1803
65°	1752	1701	1682
70°	1580	1517	1504
75°	1325	1258	1245
80°	962	897	872
85°	509	451	411

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2023 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.0	3.4
10°-20°	212.6	9.7
20°-30°	322.9	14.8
30°-40°	390.6	17.9
40°-50°	406.0	18.6
50°-60°	363.5	16.6
60°-70°	265.1	12.1
70°-80°	130.6	6.0
80°-90°	21.8	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°	609.5	27.9
0°-40°	1000.1	45.7
0°-60°	1769.5	80.9
0°-90°	2187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2187.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	772	781	777	784	771	73
15°	748	755	751	758	747	211
25°	700	704	699	702	693	323
35°	627	628	622	625	616	393
45°	532	531	524	525	519	411
55°	415	411	405	404	401	370
65°	275	272	267	265	264	272
75°	127	125	121	120	120	136
85°	16	16	15	13	13	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	781.4	781.4	781.4	781.4	781.4
2.5°	774.6	783.3	779.1	786.9	773.0
5°	772.3	780.8	776.9	784.3	771.4
7.5°	768.5	777.2	773.0	780.1	767.8
10°	764.3	772.0	767.5	774.6	762.0
12.5°	756.8	764.6	760.4	766.8	755.2
15°	748.4	755.2	751.3	757.8	746.8
17.5°	738.7	745.2	741.0	746.8	735.8
20°	728.0	733.2	728.7	733.5	722.9
22.5°	714.8	719.6	714.8	718.0	708.6
25°	700.5	704.1	699.2	702.5	692.8
27.5°	685.3	687.3	682.4	685.0	675.0
30°	666.6	668.8	663.7	666.9	657.2
32.5°	648.5	649.8	643.9	646.5	637.8
35°	627.1	628.4	622.3	624.9	616.1
37.5°	606.7	606.4	600.0	601.6	594.1
40°	583.1	582.8	576.0	577.3	570.2
42.5°	558.9	557.6	551.1	551.8	545.3
45°	531.7	531.1	524.3	525.2	518.8
47.5°	505.5	503.6	496.8	497.1	491.6
50°	477.1	474.1	468.3	467.7	462.8
52.5°	446.7	443.4	436.9	436.3	432.7
55°	415.0	411.4	405.3	404.3	401.4
57.5°	382.3	377.8	372.9	371.0	368.7
60°	347.7	343.5	338.0	336.0	335.1
62.5°	311.8	307.6	303.4	301.4	300.1
65°	275.2	272.0	267.2	265.2	264.2
67.5°	238.0	235.1	230.6	228.3	228.0
70°	200.8	197.9	192.8	191.5	191.1
72.5°	163.7	161.1	156.2	154.9	154.9
75°	127.4	125.2	121.0	119.7	119.7
77.5°	93.1	91.2	88.0	86.4	86.4
80°	62.1	60.8	57.9	56.6	56.3
82.5°	35.9	35.3	32.7	31.4	32.0
85°	16.5	15.8	14.6	12.9	13.3
87.5°	4.2	3.9	2.9	2.3	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)