

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: P973357

Luminaire Tested: FLR2-14-30-L930-CP187

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973357  
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-CP187  
Description: 1\*4 FLR-2.0 3000 LUMEN at 3000CCT & 80CRI with Clear Polycarbonate (0.187" thickness)  
  
Light Source:  
Ballast/Driver: -

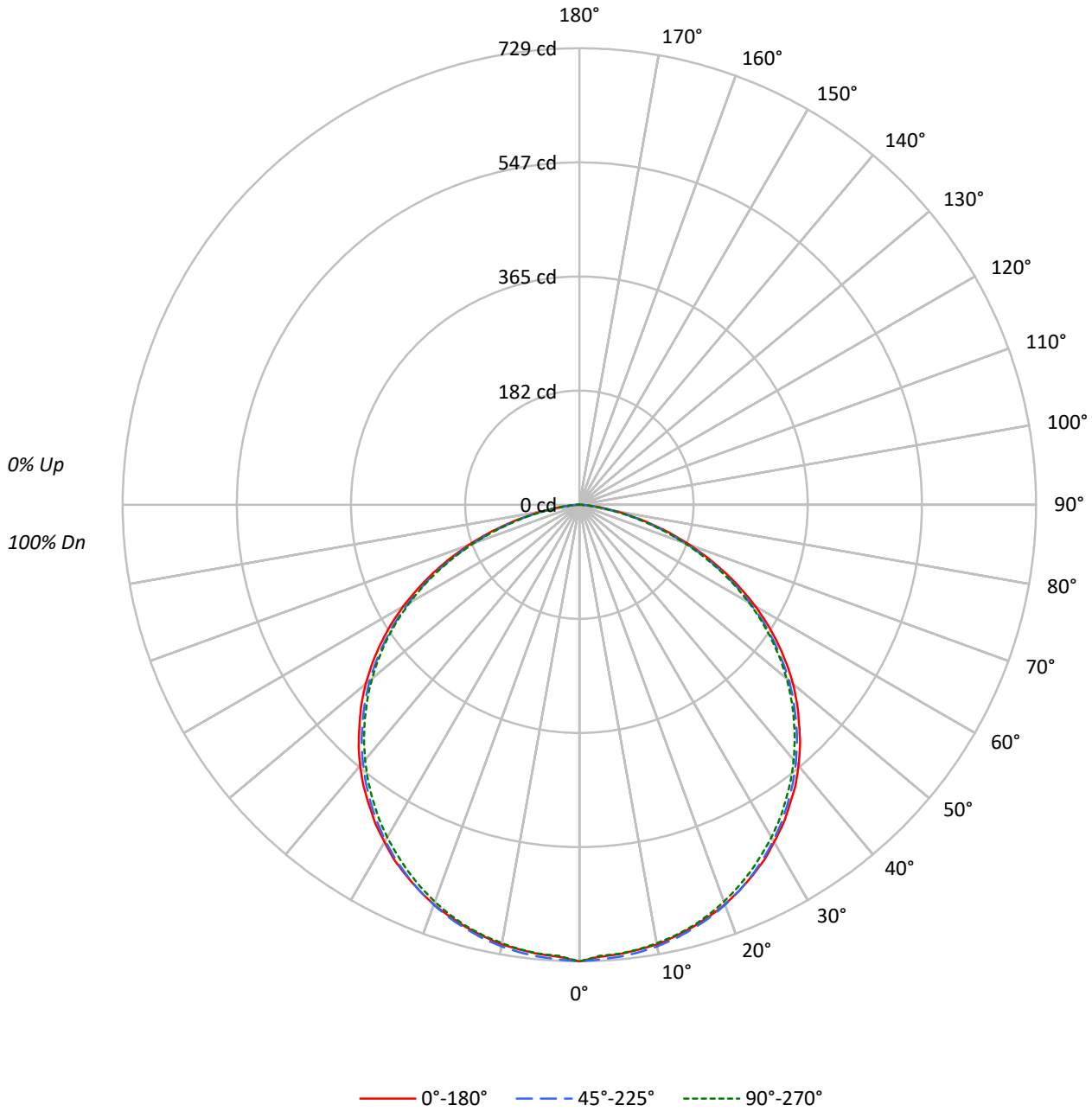
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2040.8 lumens  
Efficiency: N/A  
Efficacy: 85.4 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°	1962	1962	1962
5°	1947	1958	1944
10°	1949	1957	1943
15°	1946	1953	1941
20°	1946	1947	1932
25°	1941	1937	1920
30°	1933	1924	1906
35°	1922	1908	1889
40°	1912	1888	1869
45°	1888	1862	1842
50°	1864	1829	1808
55°	1817	1774	1757
60°	1746	1697	1683
65°	1635	1587	1570
70°	1474	1415	1404
75°	1236	1174	1161
80°	897	837	814
85°	475	420	383

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1888 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.1	3.4
10°-20°	198.3	9.7
20°-30°	301.3	14.8
30°-40°	364.5	17.9
40°-50°	378.8	18.6
50°-60°	339.2	16.6
60°-70°	247.4	12.1
70°-80°	121.8	6.0
80°-90°	20.4	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°	568.7	27.9
0°-40°	933.2	45.7
0°-60°	1651.2	80.9
0°-90°	2040.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2040.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	729	729	729	729	729	
5°	721	729	725	732	720	69
15°	698	705	701	707	697	197
25°	654	657	652	656	646	301
35°	585	586	581	583	575	366
45°	496	496	489	490	484	383
55°	387	384	378	377	374	346
65°	257	254	249	248	247	254
75°	119	117	113	112	112	127
85°	15	15	14	12	12	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	729.2	729.2	729.2	729.2	729.2
2.5°	722.8	731.0	727.1	734.3	721.3
5°	720.7	728.6	724.9	731.9	719.8
7.5°	717.1	725.2	721.3	728.0	716.5
10°	713.2	720.4	716.2	722.8	711.1
12.5°	706.2	713.5	709.5	715.6	704.7
15°	698.4	704.7	701.1	707.1	696.9
17.5°	689.3	695.4	691.4	696.9	686.6
20°	679.4	684.2	680.0	684.5	674.5
22.5°	667.0	671.5	667.0	670.0	661.3
25°	653.7	657.0	652.5	655.5	646.5
27.5°	639.5	641.3	636.8	639.2	629.9
30°	622.0	624.1	619.3	622.3	613.3
32.5°	605.1	606.3	600.9	603.3	595.2
35°	585.2	586.4	580.7	583.1	574.9
37.5°	566.2	565.9	559.9	561.4	554.4
40°	544.2	543.9	537.5	538.7	532.1
42.5°	521.5	520.3	514.3	514.9	508.8
45°	496.2	495.6	489.2	490.1	484.1
47.5°	471.7	469.9	463.6	463.9	458.7
50°	445.2	442.4	437.0	436.4	431.9
52.5°	416.8	413.8	407.7	407.1	403.8
55°	387.2	383.9	378.2	377.3	374.5
57.5°	356.7	352.5	348.0	346.2	344.1
60°	324.4	320.5	315.4	313.6	312.7
62.5°	290.9	287.0	283.1	281.3	280.1
65°	256.8	253.8	249.3	247.5	246.6
67.5°	222.1	219.4	215.2	213.1	212.8
70°	187.4	184.7	179.9	178.7	178.4
72.5°	152.7	150.3	145.8	144.6	144.6
75°	118.9	116.8	112.9	111.7	111.7
77.5°	86.9	85.1	82.1	80.6	80.6
80°	57.9	56.7	54.0	52.8	52.5
82.5°	33.5	32.9	30.5	29.3	29.9
85°	15.4	14.8	13.6	12.1	12.4
87.5°	3.9	3.6	2.7	2.1	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)