

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: P973402

Luminaire Tested: FLR2-14-30-L935-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973402  
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-L935-CP250  
Description: 1\*4 FLR-2.0 3000 LUMEN at 3500 CCT & 90 CRI Clear Polycarbonate (0.250" thickness)  
  
Light Source:  
Ballast/Driver: -

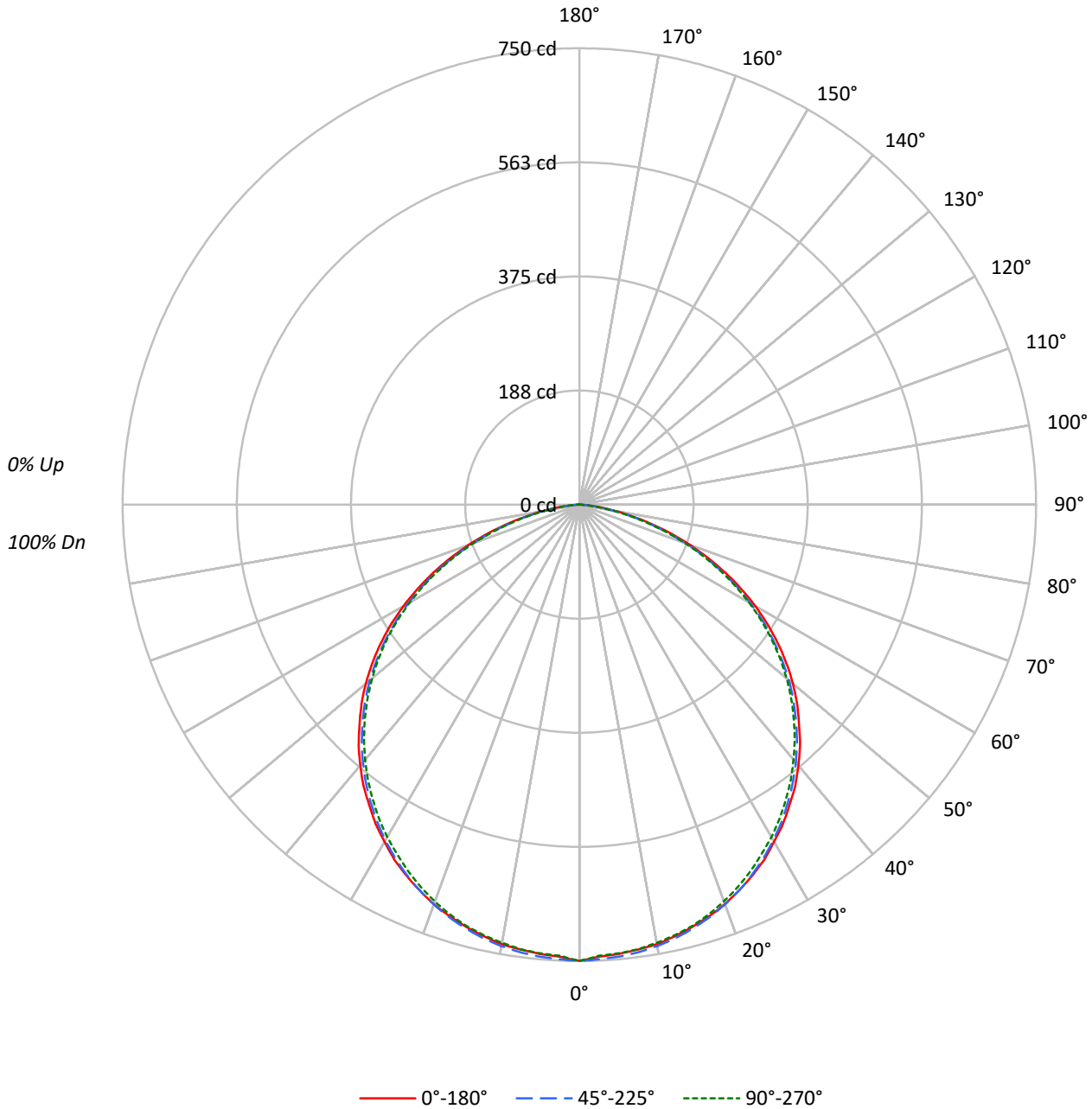
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2099.2 lumens  
Efficiency: N/A  
Efficacy: 87.8 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): 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				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°	2018	2018	2018
5°	2002	2014	2000
10°	2005	2013	1999
15°	2001	2009	1997
20°	2001	2003	1987
25°	1996	1993	1974
30°	1988	1979	1960
35°	1978	1962	1943
40°	1966	1942	1923
45°	1942	1915	1895
50°	1917	1882	1860
55°	1869	1825	1808
60°	1796	1746	1731
65°	1682	1633	1615
70°	1517	1456	1444
75°	1272	1207	1195
80°	924	862	837
85°	488	432	392

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1942 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.0	3.4
10°-20°	204.0	9.7
20°-30°	309.9	14.8
30°-40°	374.9	17.9
40°-50°	389.7	18.6
50°-60°	348.9	16.6
60°-70°	254.5	12.1
70°-80°	125.3	6.0
80°-90°	21.0	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°	585.0	27.9
0°-40°	960.0	45.7
0°-60°	1698.5	80.9
0°-90°	2099.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2099.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	741	749	746	753	740	71
15°	718	725	721	727	717	203
25°	672	676	671	674	665	310
35°	602	603	597	600	591	377
45°	510	510	503	504	498	394
55°	398	395	389	388	385	355
65°	264	261	256	255	254	261
75°	122	120	116	115	115	130
85°	16	15	14	12	13	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	750.0	750.0	750.0	750.0	750.0
2.5°	743.5	751.9	747.9	755.3	742.0
5°	741.3	749.4	745.7	752.8	740.4
7.5°	737.6	746.0	742.0	748.8	737.0
10°	733.6	741.0	736.7	743.5	731.4
12.5°	726.4	733.9	729.9	736.1	724.9
15°	718.4	724.9	721.2	727.4	716.8
17.5°	709.1	715.3	711.2	716.8	706.3
20°	698.8	703.8	699.4	704.1	693.9
22.5°	686.1	690.7	686.1	689.2	680.2
25°	672.4	675.8	671.2	674.3	665.0
27.5°	657.8	659.7	655.0	657.5	647.9
30°	639.8	642.0	637.0	640.1	630.8
32.5°	622.4	623.7	618.1	620.6	612.2
35°	602.0	603.2	597.3	599.8	591.4
37.5°	582.4	582.1	575.9	577.4	570.3
40°	559.7	559.4	552.9	554.1	547.3
42.5°	536.5	535.2	529.0	529.6	523.4
45°	510.4	509.8	503.2	504.2	498.0
47.5°	485.2	483.4	476.8	477.2	471.9
50°	457.9	455.1	449.5	448.9	444.3
52.5°	428.7	425.6	419.4	418.8	415.4
55°	398.3	394.9	389.0	388.1	385.3
57.5°	366.9	362.6	357.9	356.1	353.9
60°	333.7	329.7	324.4	322.6	321.6
62.5°	299.3	295.2	291.2	289.3	288.1
65°	264.2	261.1	256.4	254.6	253.6
67.5°	228.5	225.7	221.3	219.2	218.9
70°	192.8	190.0	185.0	183.8	183.5
72.5°	157.1	154.6	149.9	148.7	148.7
75°	122.3	120.1	116.1	114.9	114.9
77.5°	89.4	87.5	84.4	82.9	82.9
80°	59.6	58.4	55.6	54.3	54.0
82.5°	34.5	33.8	31.4	30.1	30.7
85°	15.8	15.2	14.0	12.4	12.7
87.5°	4.0	3.7	2.8	2.2	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)