

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: P973477

Luminaire Tested: FLR2-14-30-L950-CP080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973477  
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-L950-CP080  
Description: 1\*4 FLR-2.0 3000 LUMEN at 5000 CCT & 90 CRI with Clear Polycarbonate (0.080" thickness)  
  
Light Source:  
Ballast/Driver: -

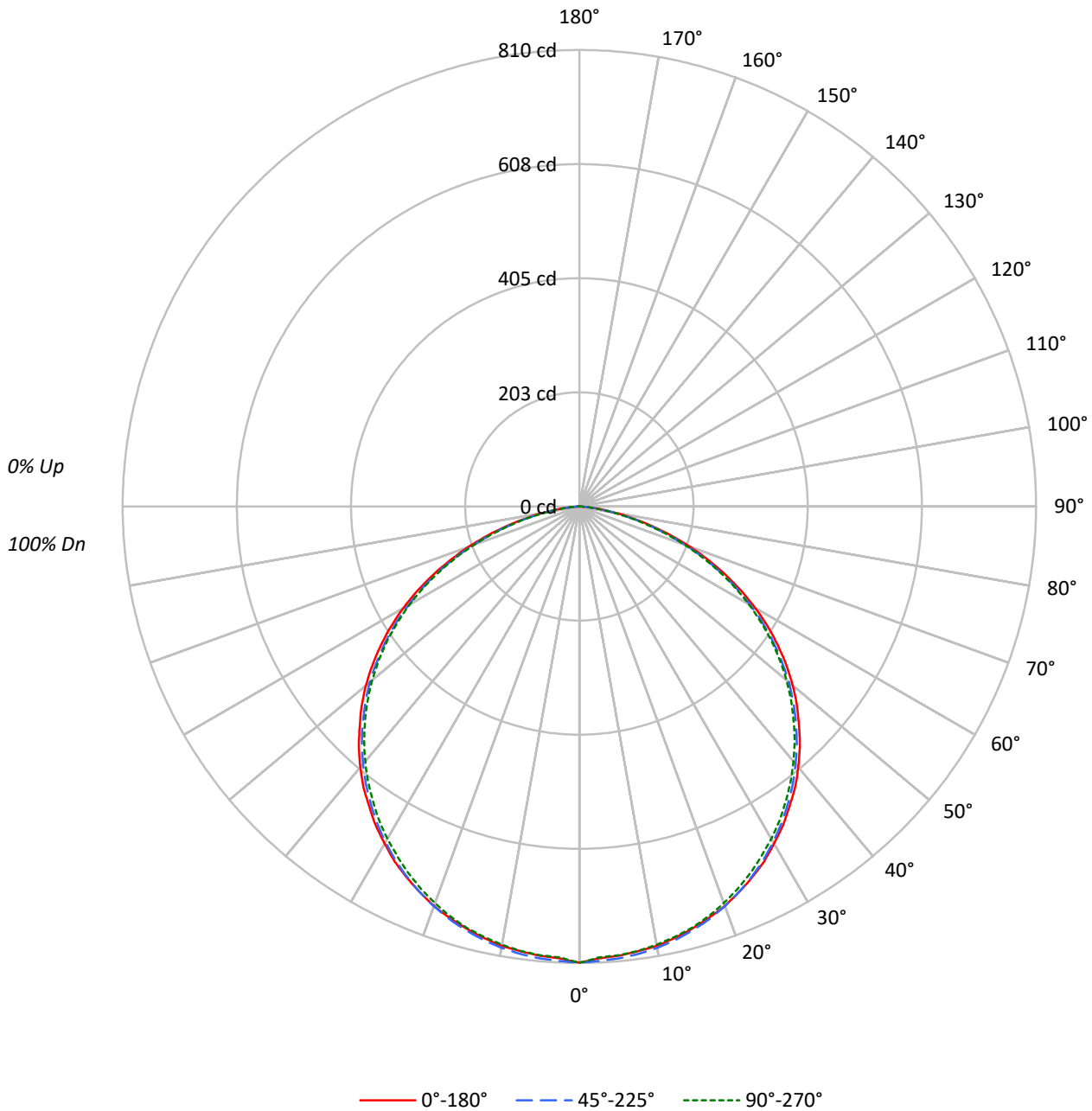
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2265.9 lumens  
Efficiency: N/A  
Efficacy: 94.8 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										
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°	2179	2179	2179
5°	2162	2174	2159
10°	2164	2173	2157
15°	2160	2169	2155
20°	2160	2162	2145
25°	2155	2151	2131
30°	2146	2137	2116
35°	2134	2118	2097
40°	2122	2096	2075
45°	2097	2067	2046
50°	2069	2031	2007
55°	2017	1970	1951
60°	1939	1885	1868
65°	1816	1762	1743
70°	1637	1571	1558
75°	1372	1303	1289
80°	996	930	903
85°	528	466	423

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2097 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.7	3.4
10°-20°	220.2	9.7
20°-30°	334.6	14.8
30°-40°	404.7	17.9
40°-50°	420.6	18.6
50°-60°	376.6	16.6
60°-70°	274.7	12.1
70°-80°	135.3	6.0
80°-90°	22.6	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°	631.4	27.9
0°-40°	1036.1	45.7
0°-60°	1833.3	80.9
0°-90°	2265.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2265.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	800	809	805	813	799	76
15°	775	782	778	785	774	219
25°	726	730	724	728	718	335
35°	650	651	645	647	638	407
45°	551	550	543	544	538	425
55°	430	426	420	419	416	384
65°	285	282	277	275	274	282
75°	132	130	125	124	124	141
85°	17	16	15	13	14	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	809.6	809.6	809.6	809.6	809.6
2.5°	802.5	811.6	807.2	815.3	800.9
5°	800.2	808.9	804.9	812.6	799.2
7.5°	796.2	805.2	800.9	808.2	795.5
10°	791.8	799.8	795.2	802.5	789.5
12.5°	784.1	792.1	787.8	794.5	782.4
15°	775.4	782.4	778.4	785.1	773.7
17.5°	765.3	772.0	767.7	773.7	762.3
20°	754.3	759.6	754.9	760.0	748.9
22.5°	740.5	745.6	740.5	743.9	734.2
25°	725.8	729.5	724.5	727.8	717.8
27.5°	710.0	712.1	707.0	709.7	699.3
30°	690.6	693.0	687.6	690.9	680.9
32.5°	671.8	673.2	667.2	669.8	660.8
35°	649.7	651.1	644.7	647.4	638.3
37.5°	628.6	628.3	621.6	623.3	615.5
40°	604.2	603.8	596.8	598.1	590.8
42.5°	579.0	577.7	571.0	571.7	565.0
45°	550.9	550.2	543.2	544.2	537.5
47.5°	523.7	521.7	514.7	515.0	509.3
50°	494.2	491.2	485.2	484.5	479.5
52.5°	462.8	459.4	452.7	452.0	448.3
55°	429.9	426.2	419.9	418.9	415.8
57.5°	396.1	391.4	386.4	384.3	382.0
60°	360.2	355.9	350.2	348.2	347.1
62.5°	323.0	318.7	314.3	312.3	311.0
65°	285.2	281.8	276.8	274.8	273.8
67.5°	246.6	243.6	238.9	236.6	236.2
70°	208.1	205.1	199.7	198.4	198.0
72.5°	169.6	166.9	161.8	160.5	160.5
75°	132.0	129.7	125.3	124.0	124.0
77.5°	96.5	94.5	91.1	89.5	89.5
80°	64.3	63.0	60.0	58.6	58.3
82.5°	37.2	36.5	33.8	32.5	33.2
85°	17.1	16.4	15.1	13.4	13.7
87.5°	4.4	4.0	3.0	2.3	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)