

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: P973444

Luminaire Tested: FLR2-14-30-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973444
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-L940-CP250
Description: 1*4 FLR-2.0 3000 LUMEN at 4000 CCT & 90 CRI with Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

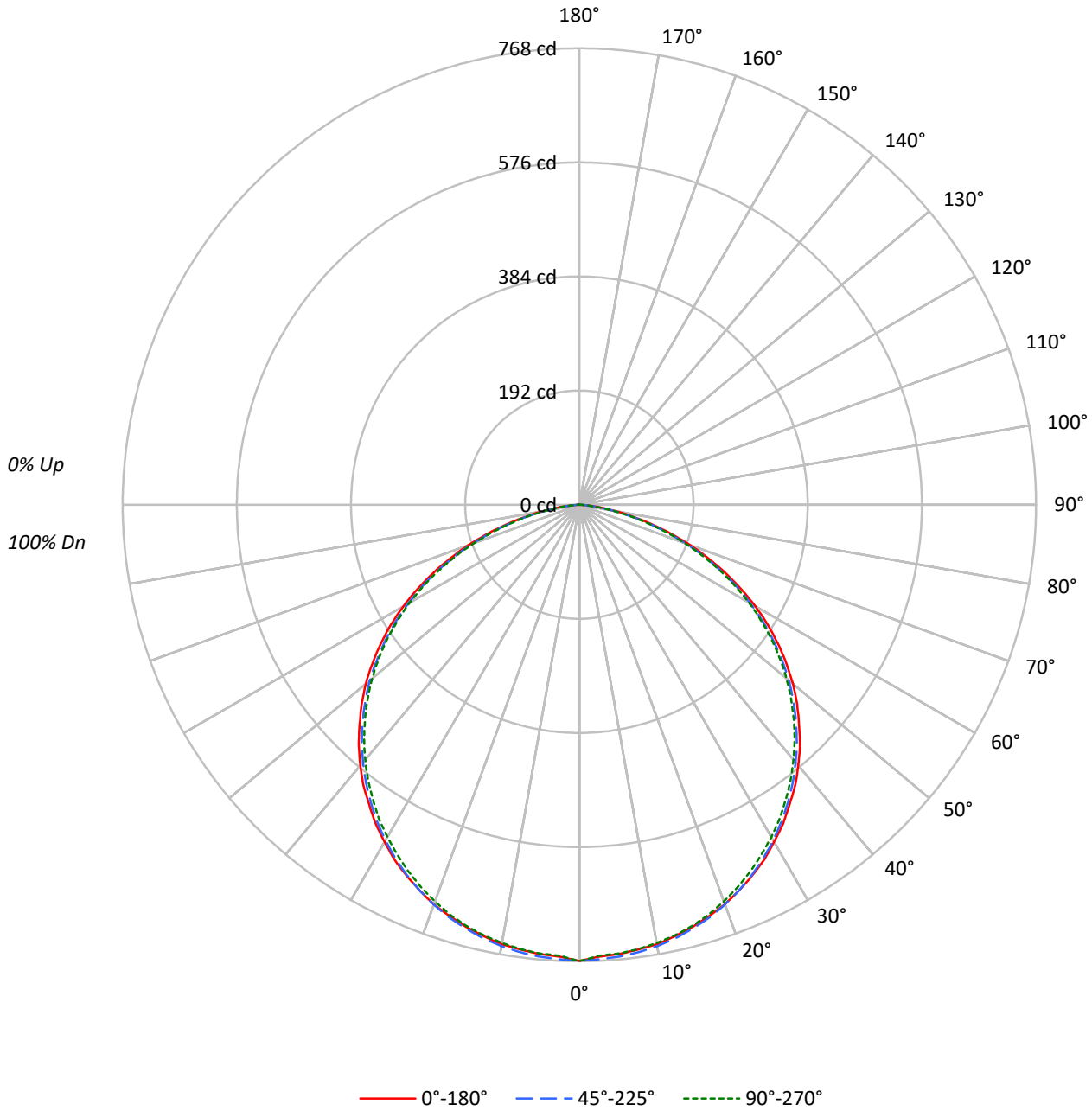
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2148.7 lumens
Efficiency: N/A
Efficacy: 89.9 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 (A_{in}): 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

TEST NUMBER: P973444
CATALOG NUMBER: FLR2-14-30-L940-CP250

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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°	2066	2066	2066
5°	2050	2062	2047
10°	2052	2060	2046
15°	2048	2056	2044
20°	2048	2050	2034
25°	2044	2040	2021
30°	2035	2026	2006
35°	2024	2008	1988
40°	2012	1988	1968
45°	1988	1960	1940
50°	1962	1926	1904
55°	1913	1868	1850
60°	1838	1787	1772
65°	1722	1671	1653
70°	1552	1490	1478
75°	1302	1235	1223
80°	945	882	857
85°	500	442	401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1988 cd/sqm



TEST NUMBER: P973444
 CATALOG NUMBER: FLR2-14-30-L940-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	3.4
10°-20°	208.8	9.7
20°-30°	317.2	14.8
30°-40°	383.8	17.9
40°-50°	398.8	18.6
50°-60°	357.1	16.6
60°-70°	260.5	12.1
70°-80°	128.3	6.0
80°-90°	21.4	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°	598.8	27.9
0°-40°	982.5	45.7
0°-60°	1738.5	80.9
0°-90°	2148.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2148.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	759	767	763	770	758	72
15°	735	742	738	744	734	208
25°	688	692	687	690	681	317
35°	616	617	611	614	605	386
45°	522	522	515	516	510	403
55°	408	404	398	397	394	364
65°	270	267	262	261	260	267
75°	125	123	119	118	118	133
85°	16	16	14	13	13	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.7	767.7	767.7	767.7	767.7
2.5°	761.0	769.6	765.5	773.1	759.4
5°	758.8	767.1	763.2	770.5	757.8
7.5°	755.0	763.6	759.4	766.4	754.3
10°	750.8	758.5	754.0	761.0	748.6
12.5°	743.5	751.2	747.0	753.4	742.0
15°	735.3	742.0	738.1	744.5	733.7
17.5°	725.7	732.1	728.0	733.7	722.9
20°	715.3	720.3	715.9	720.7	710.2
22.5°	702.2	707.0	702.2	705.4	696.2
25°	688.3	691.7	687.0	690.2	680.6
27.5°	673.3	675.2	670.5	673.0	663.1
30°	654.9	657.1	652.0	655.2	645.7
32.5°	637.1	638.4	632.6	635.2	626.6
35°	616.1	617.4	611.4	613.9	605.3
37.5°	596.1	595.8	589.4	591.0	583.7
40°	572.9	572.6	565.9	567.2	560.2
42.5°	549.1	547.8	541.4	542.1	535.7
45°	522.4	521.7	515.1	516.0	509.7
47.5°	496.6	494.7	488.1	488.4	483.0
50°	468.7	465.8	460.1	459.5	454.7
52.5°	438.8	435.6	429.3	428.6	425.2
55°	407.7	404.2	398.1	397.2	394.3
57.5°	375.6	371.1	366.4	364.5	362.2
60°	341.6	337.5	332.1	330.1	329.2
62.5°	306.3	302.2	298.1	296.1	294.9
65°	270.4	267.2	262.5	260.6	259.6
67.5°	233.9	231.0	226.6	224.3	224.0
70°	197.3	194.5	189.4	188.1	187.8
72.5°	160.8	158.2	153.5	152.2	152.2
75°	125.2	123.0	118.8	117.6	117.6
77.5°	91.5	89.6	86.4	84.8	84.8
80°	61.0	59.7	56.9	55.6	55.3
82.5°	35.3	34.6	32.1	30.8	31.5
85°	16.2	15.6	14.3	12.7	13.0
87.5°	4.1	3.8	2.9	2.2	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)