

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: P973360

Luminaire Tested: FLR2-14-30-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973360
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-CP250
Description: 1*4 FLR-2.0 3000 LUMEN at 3000CCT & 80CRI with Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

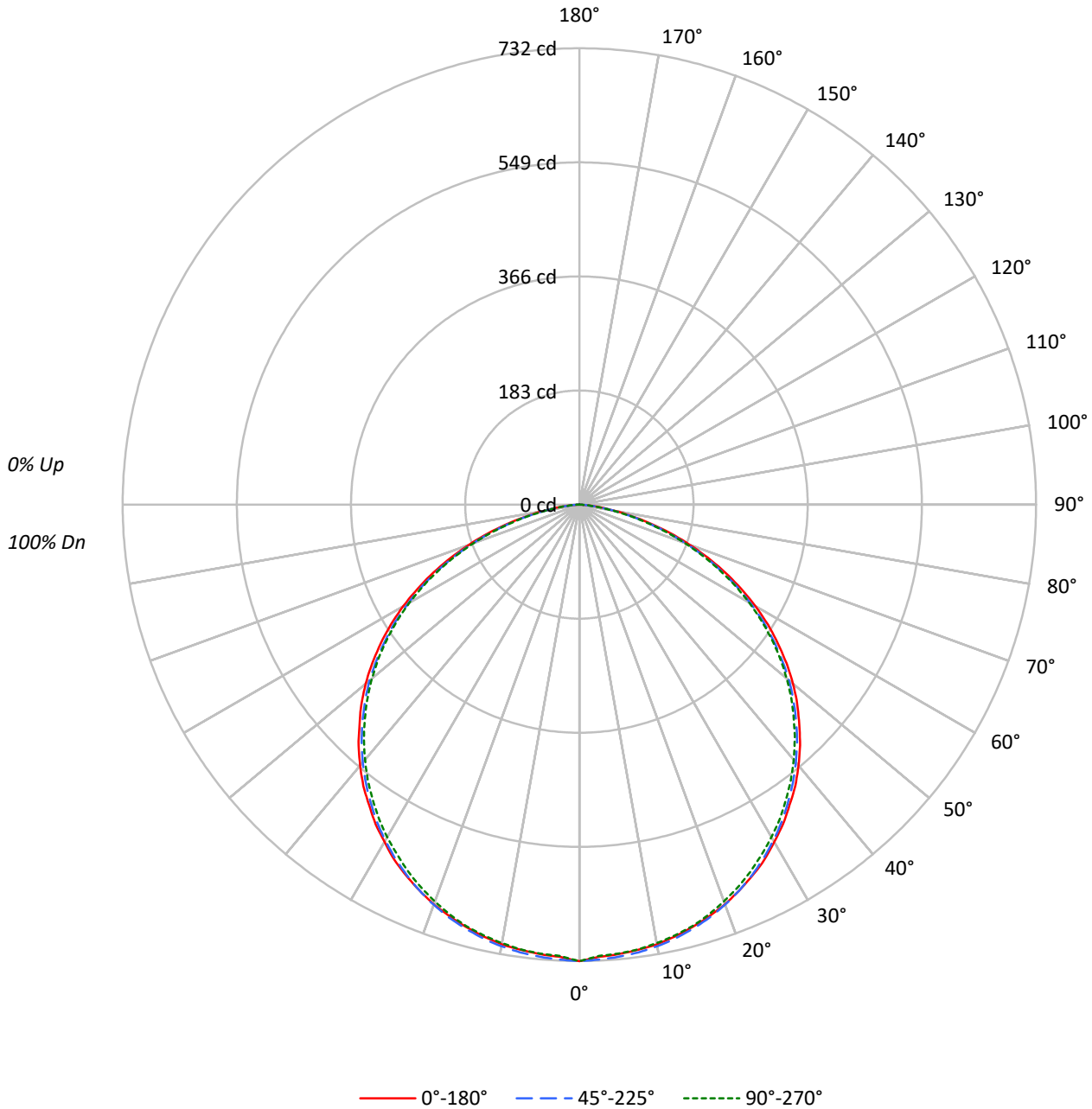
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2049.8 lumens
Efficiency: N/A
Efficacy: 85.8 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

TEST NUMBER: P973360
CATALOG NUMBER: FLR2-14-30-L930-CP250

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°	1971	1971	1971
5°	1955	1967	1953
10°	1957	1966	1952
15°	1954	1962	1950
20°	1954	1956	1940
25°	1950	1946	1928
30°	1941	1933	1914
35°	1931	1916	1897
40°	1920	1897	1877
45°	1897	1870	1850
50°	1872	1838	1816
55°	1825	1782	1765
60°	1754	1705	1690
65°	1643	1594	1577
70°	1482	1422	1410
75°	1241	1179	1167
80°	902	841	817
85°	479	420	383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1897 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	3.4
10°-20°	199.2	9.7
20°-30°	302.7	14.8
30°-40°	366.1	17.9
40°-50°	380.5	18.6
50°-60°	340.7	16.6
60°-70°	248.5	12.1
70°-80°	122.4	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°	571.3	27.9
0°-40°	937.4	45.7
0°-60°	1658.6	80.9
0°-90°	2049.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2049.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	724	732	728	735	723	69
15°	702	708	704	710	700	198
25°	657	660	655	658	649	303
35°	588	589	583	586	578	368
45°	498	498	491	492	486	385
55°	389	386	380	379	376	347
65°	258	255	250	249	248	255
75°	119	117	113	112	112	127
85°	16	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°	732.4	732.4	732.4	732.4	732.4
2.5°	726.0	734.2	730.3	737.5	724.5
5°	723.9	731.8	728.1	735.1	723.0
7.5°	720.3	728.5	724.5	731.2	719.7
10°	716.3	723.6	719.4	726.0	714.2
12.5°	709.4	716.6	712.7	718.8	707.8
15°	701.5	707.8	704.2	710.3	700.0
17.5°	692.4	698.4	694.5	700.0	689.7
20°	682.4	687.2	683.0	687.5	677.5
22.5°	669.9	674.5	669.9	673.0	664.2
25°	656.6	659.9	655.4	658.4	649.3
27.5°	642.4	644.2	639.6	642.1	632.7
30°	624.8	626.9	622.0	625.1	616.0
32.5°	607.8	609.0	603.6	606.0	597.8
35°	587.8	589.0	583.2	585.7	577.5
37.5°	568.7	568.4	562.3	563.8	556.9
40°	546.6	546.3	539.9	541.1	534.4
42.5°	523.8	522.6	516.6	517.2	511.1
45°	498.4	497.8	491.4	492.3	486.2
47.5°	473.8	472.0	465.6	465.9	460.8
50°	447.1	444.4	439.0	438.3	433.8
52.5°	418.6	415.6	409.5	408.9	405.6
55°	388.9	385.6	379.8	378.9	376.2
57.5°	358.3	354.1	349.5	347.7	345.6
60°	325.9	321.9	316.8	315.0	314.1
62.5°	292.2	288.3	284.3	282.5	281.3
65°	258.0	254.9	250.4	248.6	247.7
67.5°	223.1	220.4	216.1	214.0	213.7
70°	188.3	185.5	180.7	179.5	179.2
72.5°	153.4	151.0	146.4	145.2	145.2
75°	119.4	117.3	113.4	112.2	112.2
77.5°	87.3	85.5	82.5	80.9	80.9
80°	58.2	57.0	54.3	53.1	52.7
82.5°	33.6	33.0	30.6	29.4	30.0
85°	15.5	14.9	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)