

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: P973100

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973100
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: FLR2-14-30HE-L930-CP250
Description: 1*4 FLR-2.0 3000 Lumen High Efficacy at 3000CCT & 90 CRI Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

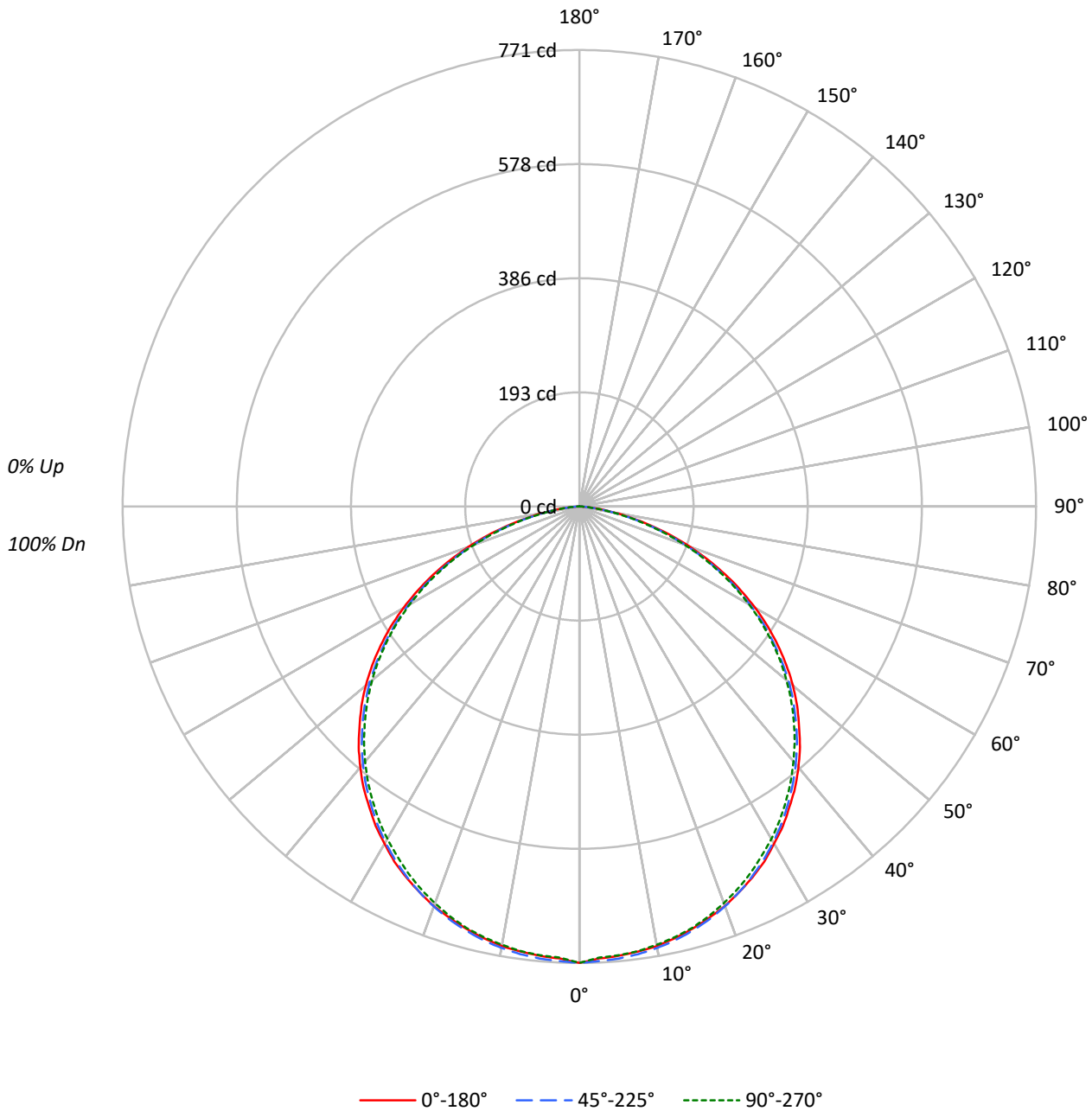
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2157.8 lumens
Efficiency: N/A
Efficacy: 96.3 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): 22.4
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: P973100
CATALOG NUMBER: FLR2-14-30HE-L930-CP250

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	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°	2074	2074	2074
5°	2058	2071	2056
10°	2060	2069	2054
15°	2057	2065	2053
20°	2057	2059	2042
25°	2052	2048	2029
30°	2044	2035	2015
35°	2032	2017	1997
40°	2021	1996	1976
45°	1996	1969	1948
50°	1971	1935	1912
55°	1921	1876	1858
60°	1846	1795	1779
65°	1729	1678	1660
70°	1559	1496	1484
75°	1307	1240	1228
80°	950	885	860
85°	503	445	404

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1996 cd/sqm



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 CATALOG NUMBER: FLR2-14-30HE-L930-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	3.4
10°-20°	209.7	9.7
20°-30°	318.6	14.8
30°-40°	385.4	17.9
40°-50°	400.5	18.6
50°-60°	358.6	16.6
60°-70°	261.6	12.1
70°-80°	128.8	6.0
80°-90°	21.5	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°	601.3	27.9
0°-40°	986.7	45.7
0°-60°	1745.9	80.9
0°-90°	2157.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2157.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	762	770	766	774	761	72
15°	738	745	741	748	737	209
25°	691	695	690	693	684	319
35°	619	620	614	616	608	387
45°	525	524	517	518	512	405
55°	409	406	400	399	396	365
65°	272	268	264	262	261	268
75°	126	124	119	118	118	134
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°	770.9	770.9	770.9	770.9	770.9
2.5°	764.2	772.9	768.7	776.4	762.6
5°	762.0	770.3	766.5	773.8	761.0
7.5°	758.2	766.8	762.6	769.7	757.5
10°	754.0	761.7	757.2	764.2	751.8
12.5°	746.7	754.3	750.2	756.6	745.1
15°	738.4	745.1	741.3	747.6	736.8
17.5°	728.8	735.2	731.1	736.8	725.9
20°	718.3	723.4	718.9	723.7	713.2
22.5°	705.2	710.0	705.2	708.4	699.1
25°	691.2	694.7	689.9	693.1	683.5
27.5°	676.2	678.1	673.3	675.8	666.0
30°	657.7	659.9	654.8	658.0	648.4
32.5°	639.8	641.1	635.3	637.9	629.3
35°	618.7	620.0	613.9	616.5	607.9
37.5°	598.6	598.3	591.9	593.5	586.2
40°	575.3	575.0	568.3	569.6	562.6
42.5°	551.4	550.1	543.7	544.4	538.0
45°	524.6	524.0	517.3	518.2	511.8
47.5°	498.8	496.8	490.1	490.5	485.0
50°	470.7	467.8	462.1	461.4	456.6
52.5°	440.7	437.5	431.1	430.5	427.0
55°	409.4	405.9	399.8	398.9	396.0
57.5°	377.2	372.7	367.9	366.0	363.8
60°	343.0	338.9	333.5	331.5	330.6
62.5°	307.6	303.5	299.3	297.4	296.1
65°	271.6	268.4	263.6	261.7	260.7
67.5°	234.9	232.0	227.5	225.3	225.0
70°	198.2	195.3	190.2	188.9	188.6
72.5°	161.5	158.9	154.1	152.8	152.8
75°	125.7	123.5	119.3	118.1	118.1
77.5°	91.9	90.0	86.8	85.2	85.2
80°	61.3	60.0	57.1	55.8	55.5
82.5°	35.4	34.8	32.2	31.0	31.6
85°	16.3	15.6	14.4	12.8	13.1
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)