

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: P973095

Luminaire Tested: FLR2-14-30HE-L930-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973095
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-CP187
Description: 1*4 FLR-2.0 3000 Lumen High Efficacy at 3000CCT & 90 CRI Clear Polycarbonate (0.187" thickness)

Light Source:
Ballast/Driver: -

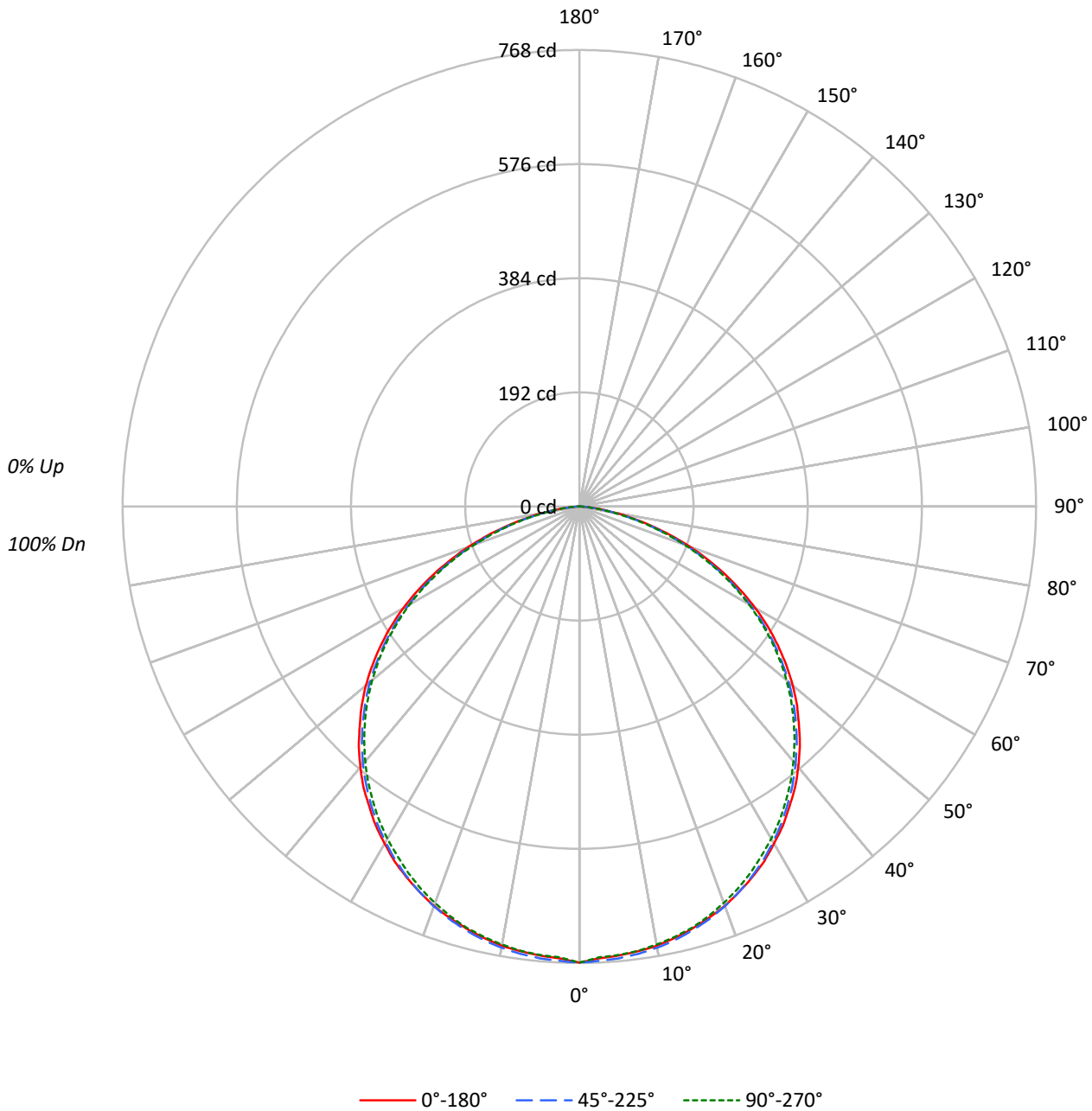
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2148.2 lumens
Efficiency: N/A
Efficacy: 95.9 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): 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: P973095
CATALOG NUMBER: FLR2-14-30HE-L930-CP187

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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	2065	2065	2065
5°	2049	2061	2047
10°	2051	2060	2045
15°	2048	2056	2043
20°	2048	2050	2033
25°	2043	2039	2021
30°	2035	2026	2006
35°	2024	2008	1988
40°	2012	1988	1968
45°	1988	1960	1939
50°	1962	1926	1903
55°	1912	1868	1850
60°	1838	1787	1771
65°	1722	1671	1653
70°	1552	1489	1478
75°	1302	1235	1222
80°	945	882	857
85°	500	442	401

MAXIMUM LUMINANCE 45°-90°:

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



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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°	383.7	17.9
40°-50°	398.8	18.6
50°-60°	357.0	16.6
60°-70°	260.4	12.1
70°-80°	128.2	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°	598.7	27.9
0°-40°	982.4	45.7
0°-60°	1738.2	80.9
0°-90°	2148.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2148.2	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	680	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	260	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°	767.5	767.5	767.5	767.5	767.5
2.5°	760.9	769.4	765.3	772.9	759.3
5°	758.6	766.9	763.1	770.4	757.7
7.5°	754.8	763.4	759.3	766.3	754.2
10°	750.7	758.3	753.9	760.9	748.5
12.5°	743.4	751.0	746.9	753.2	741.8
15°	735.1	741.8	738.0	744.3	733.5
17.5°	725.6	732.0	727.8	733.5	722.7
20°	715.1	720.2	715.8	720.5	710.0
22.5°	702.1	706.9	702.1	705.3	696.1
25°	688.1	691.6	686.8	690.0	680.5
27.5°	673.2	675.1	670.3	672.9	663.0
30°	654.8	657.0	651.9	655.1	645.5
32.5°	637.0	638.2	632.5	635.1	626.5
35°	616.0	617.3	611.2	613.8	605.2
37.5°	596.0	595.7	589.3	590.9	583.6
40°	572.8	572.5	565.8	567.1	560.1
42.5°	549.0	547.7	541.3	542.0	535.6
45°	522.3	521.6	515.0	515.9	509.6
47.5°	496.6	494.6	488.0	488.3	482.9
50°	468.6	465.7	460.0	459.4	454.6
52.5°	438.7	435.6	429.2	428.6	425.1
55°	407.6	404.1	398.1	397.1	394.3
57.5°	375.5	371.1	366.3	364.4	362.2
60°	341.5	337.4	332.0	330.1	329.1
62.5°	306.3	302.1	298.0	296.1	294.8
65°	270.4	267.2	262.4	260.5	259.6
67.5°	233.8	231.0	226.5	224.3	224.0
70°	197.3	194.4	189.3	188.1	187.8
72.5°	160.8	158.2	153.4	152.2	152.2
75°	125.2	122.9	118.8	117.5	117.5
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)