

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: P973090

Luminaire Tested: FLR2-14-30HE-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973090
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-CP125
Description: 1*4 FLR-2.0 3000 Lumen High Efficacy at 3000CCT & 90 CRI Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

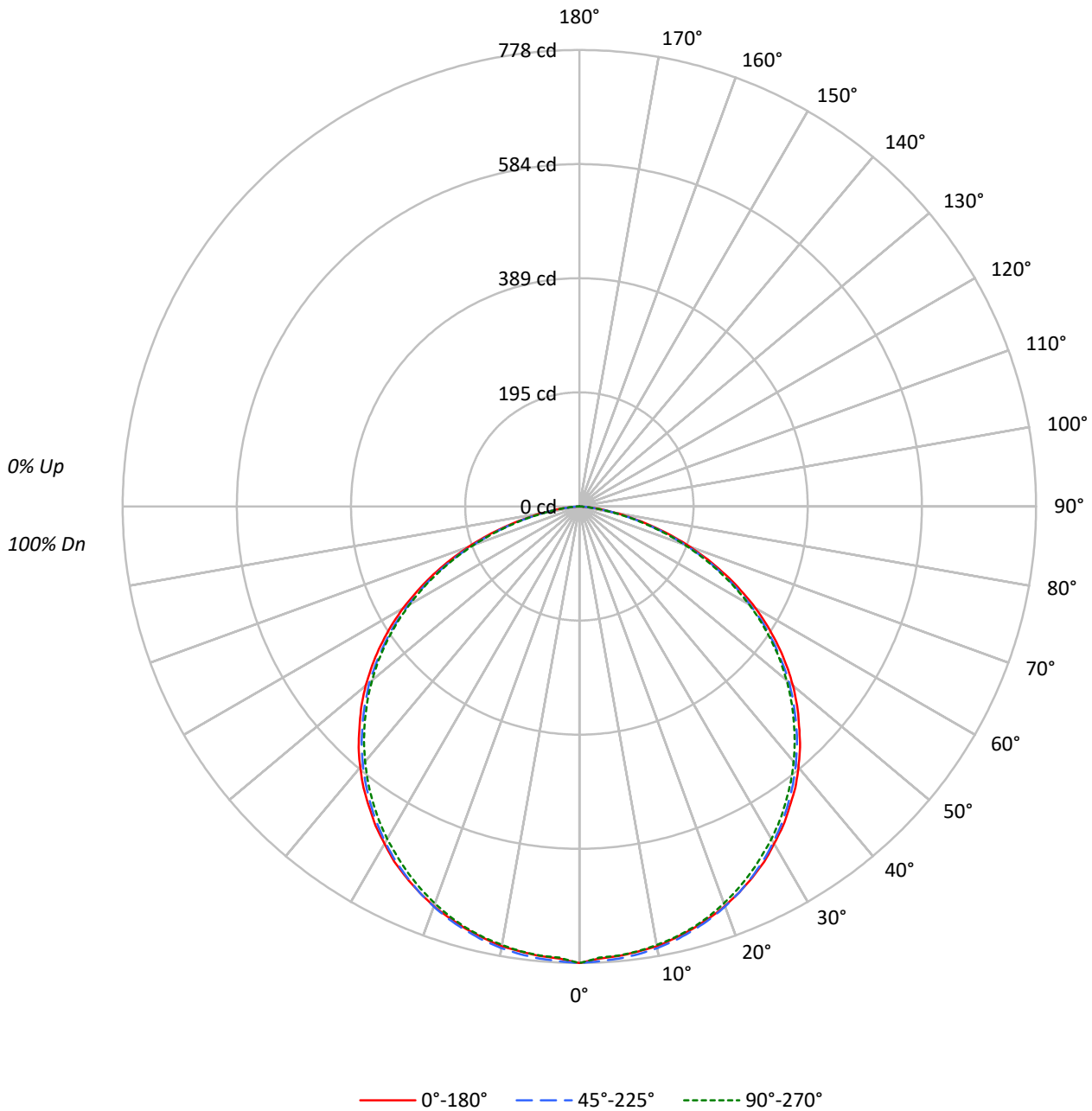
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2178.1 lumens
Efficiency: N/A
Efficacy: 97.2 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

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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									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	31	27	38	31	27	37	31	26	25						25													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2094	2094	2094
5°	2078	2090	2075
10°	2080	2088	2074
15°	2076	2084	2072
20°	2076	2078	2062
25°	2072	2068	2048
30°	2063	2054	2034
35°	2052	2036	2016
40°	2040	2015	1995
45°	2015	1987	1966
50°	1989	1953	1930
55°	1939	1894	1875
60°	1864	1812	1796
65°	1745	1694	1676
70°	1574	1511	1498
75°	1319	1253	1239
80°	958	894	868
85°	506	448	408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2015 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.4
10°-20°	211.7	9.7
20°-30°	321.6	14.8
30°-40°	389.0	17.9
40°-50°	404.3	18.6
50°-60°	362.0	16.6
60°-70°	264.0	12.1
70°-80°	130.0	6.0
80°-90°	21.7	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°	607.0	27.9
0°-40°	996.0	45.7
0°-60°	1762.3	80.9
0°-90°	2178.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2178.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	769	778	774	781	768	73
15°	745	752	748	755	744	211
25°	698	701	696	700	690	322
35°	624	626	620	622	614	391
45°	530	529	522	523	517	409
55°	413	410	404	403	400	369
65°	274	271	266	264	263	271
75°	127	125	120	119	119	135
85°	16	16	14	13	13	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	778.2	778.2	778.2	778.2	778.2
2.5°	771.4	780.1	775.9	783.7	769.8
5°	769.2	777.5	773.7	781.1	768.2
7.5°	765.3	774.0	769.8	776.9	764.7
10°	761.1	768.8	764.3	771.4	758.9
12.5°	753.7	761.4	757.2	763.7	752.1
15°	745.3	752.1	748.2	754.7	743.7
17.5°	735.7	742.1	737.9	743.7	732.8
20°	725.0	730.2	725.7	730.5	719.9
22.5°	711.8	716.7	711.8	715.1	705.7
25°	697.7	701.2	696.4	699.6	689.9
27.5°	682.5	684.5	679.6	682.2	672.2
30°	663.8	666.1	660.9	664.2	654.5
32.5°	645.8	647.1	641.3	643.9	635.2
35°	624.5	625.8	619.7	622.3	613.6
37.5°	604.3	603.9	597.5	599.1	591.7
40°	580.7	580.4	573.7	574.9	567.9
42.5°	556.6	555.3	548.9	549.5	543.1
45°	529.5	528.9	522.1	523.1	516.6
47.5°	503.4	501.5	494.7	495.1	489.6
50°	475.1	472.2	466.4	465.8	460.9
52.5°	444.8	441.6	435.2	434.5	431.0
55°	413.2	409.7	403.6	402.6	399.7
57.5°	380.7	376.2	371.4	369.4	367.2
60°	346.3	342.1	336.6	334.7	333.7
62.5°	310.5	306.3	302.1	300.2	298.9
65°	274.1	270.9	266.1	264.1	263.2
67.5°	237.1	234.2	229.7	227.4	227.1
70°	200.0	197.1	192.0	190.7	190.4
72.5°	163.0	160.4	155.6	154.3	154.3
75°	126.9	124.7	120.5	119.2	119.2
77.5°	92.8	90.8	87.6	86.0	86.0
80°	61.8	60.6	57.7	56.4	56.0
82.5°	35.8	35.1	32.5	31.2	31.9
85°	16.4	15.8	14.5	12.9	13.2
87.5°	4.2	3.9	2.9	2.3	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)