

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: P973116

Luminaire Tested: FLR2-14-42HE-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973116
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: FLR2-14-42HE-L930-CA125
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 3000CCT & 90 CRI with Clear Arylic (0.125" thickness)

Light Source:
Ballast/Driver: -

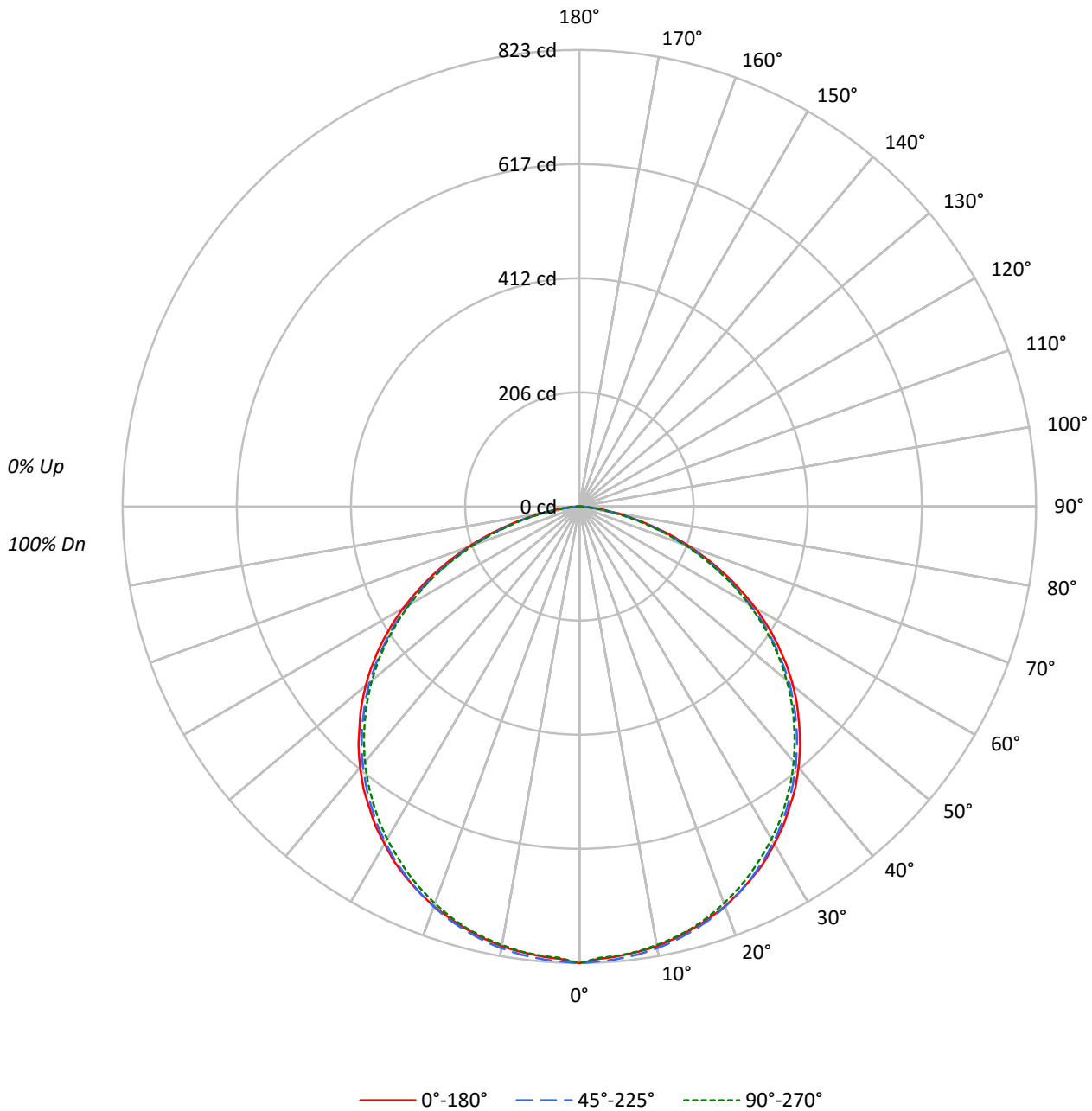
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2304.6 lumens
Efficiency: N/A
Efficacy: 72.2 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): 31.9
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: P973116
CATALOG NUMBER: FLR2-14-42HE-L930-CA125

Luminous Intensity Polar Plot





TEST NUMBER: P973116
 CATALOG NUMBER: FLR2-14-42HE-L930-CA125

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	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°	2216	2216	2216
5°	2199	2211	2196
10°	2200	2210	2194
15°	2197	2206	2192
20°	2197	2199	2181
25°	2192	2188	2167
30°	2183	2173	2152
35°	2171	2154	2133
40°	2159	2132	2111
45°	2132	2103	2081
50°	2105	2066	2042
55°	2052	2003	1985
60°	1972	1917	1900
65°	1847	1792	1773
70°	1665	1598	1585
75°	1396	1326	1311
80°	1013	945	919
85°	537	472	432

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2132 cd/sqm



TEST NUMBER: P973116
 CATALOG NUMBER: FLR2-14-42HE-L930-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	3.4
10°-20°	224.0	9.7
20°-30°	340.3	14.8
30°-40°	411.6	17.9
40°-50°	427.8	18.6
50°-60°	383.0	16.6
60°-70°	279.4	12.1
70°-80°	137.6	6.0
80°-90°	23.0	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°	642.2	27.9
0°-40°	1053.9	45.7
0°-60°	1864.7	80.9
0°-90°	2304.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2304.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	814	823	819	826	813	77
15°	789	796	792	798	787	223
25°	738	742	737	740	730	340
35°	661	662	656	658	649	414
45°	560	560	552	554	547	433
55°	437	434	427	426	423	390
65°	290	287	282	280	278	286
75°	134	132	128	126	126	143
85°	17	17	15	14	14	25
90°	0	0	0	0	0	



TEST NUMBER: P973116
 CATALOG NUMBER: FLR2-14-42HE-L930-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.4	823.4	823.4	823.4	823.4
2.5°	816.3	825.5	821.0	829.2	814.5
5°	813.9	822.7	818.6	826.5	812.8
7.5°	809.8	819.0	814.5	822.0	809.1
10°	805.3	813.5	808.8	816.3	803.0
12.5°	797.5	805.7	801.3	808.1	795.8
15°	788.6	795.8	791.7	798.5	786.9
17.5°	778.4	785.2	780.8	786.9	775.4
20°	767.2	772.6	767.9	773.0	761.7
22.5°	753.2	758.3	753.2	756.6	746.7
25°	738.2	742.0	736.8	740.3	730.0
27.5°	722.2	724.2	719.1	721.8	711.3
30°	702.4	704.8	699.4	702.8	692.5
32.5°	683.3	684.7	678.6	681.3	672.1
35°	660.8	662.2	655.7	658.5	649.3
37.5°	639.4	639.0	632.2	633.9	626.1
40°	614.5	614.1	607.0	608.4	600.9
42.5°	588.9	587.6	580.7	581.4	574.6
45°	560.3	559.6	552.5	553.5	546.7
47.5°	532.7	530.6	523.5	523.8	518.0
50°	502.7	499.6	493.5	492.8	487.7
52.5°	470.7	467.3	460.4	459.8	456.0
55°	437.3	433.5	427.0	426.0	423.0
57.5°	402.8	398.1	393.0	390.9	388.5
60°	366.4	361.9	356.2	354.1	353.1
62.5°	328.5	324.1	319.7	317.6	316.3
65°	290.0	286.6	281.5	279.5	278.4
67.5°	250.8	247.8	243.0	240.6	240.3
70°	211.6	208.6	203.1	201.8	201.4
72.5°	172.5	169.7	164.6	163.3	163.3
75°	134.3	131.9	127.5	126.1	126.1
77.5°	98.2	96.1	92.7	91.0	91.0
80°	65.4	64.1	61.0	59.6	59.3
82.5°	37.8	37.1	34.4	33.1	33.7
85°	17.4	16.7	15.3	13.6	14.0
87.5°	4.4	4.1	3.1	2.4	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)