

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: P973170

Luminaire Tested: FLR2-14-30HE-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973170
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-L935-CP250
Description: 1*4 FLR-2.0 3500 Lumen High Efficacy at 3500CCT & 90 CRI Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

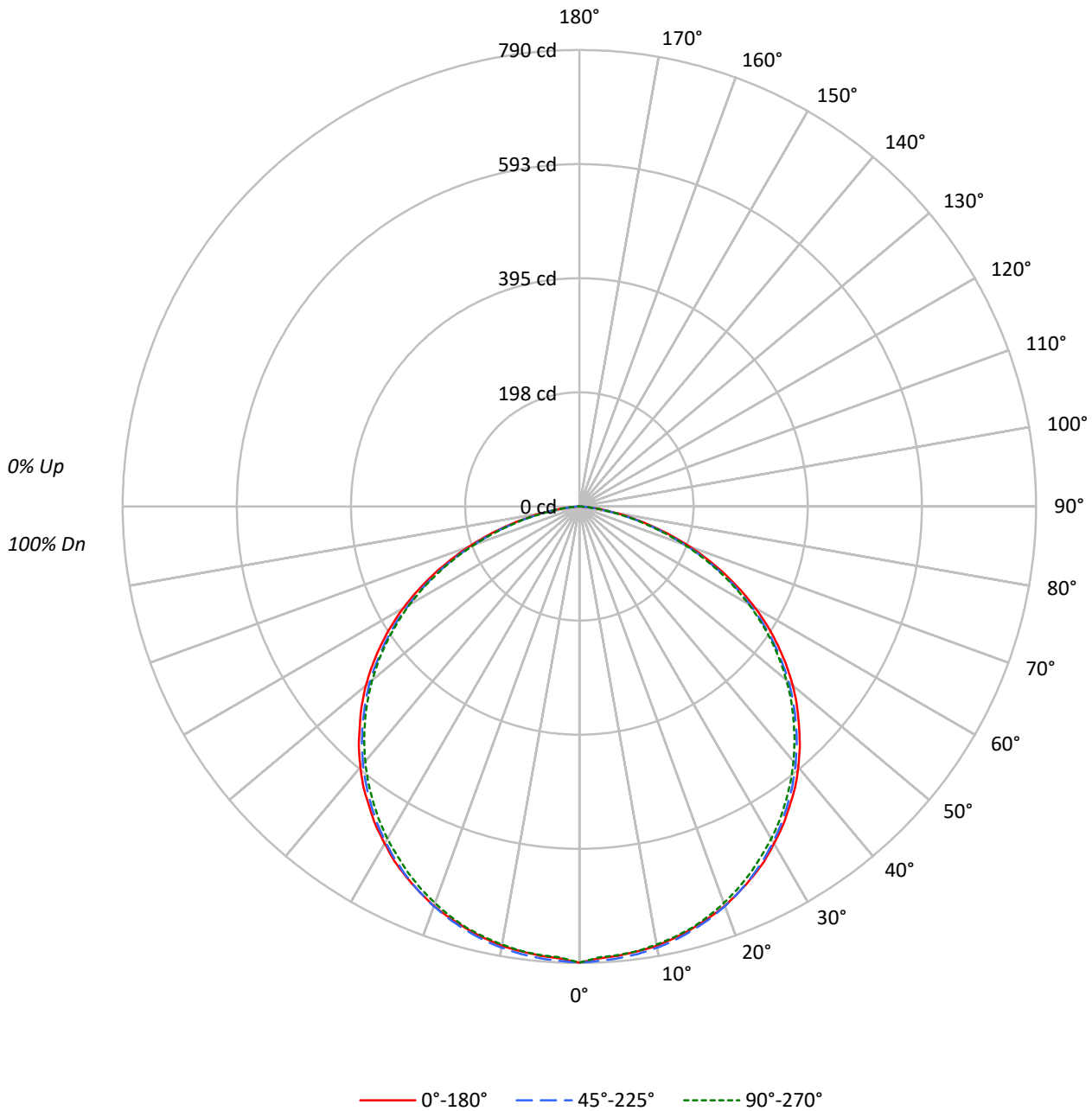
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2209.7 lumens
Efficiency: N/A
Efficacy: 98.6 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: P973170
CATALOG NUMBER: FLR2-14-30HE-L935-CP250

Luminous Intensity Polar Plot





TEST NUMBER: P973170
 CATALOG NUMBER: FLR2-14-30HE-L935-CP250

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°	2125	2125	2125
5°	2108	2120	2105
10°	2110	2119	2104
15°	2107	2115	2102
20°	2107	2109	2092
25°	2102	2098	2078
30°	2093	2084	2063
35°	2081	2065	2045
40°	2070	2044	2024
45°	2044	2016	1995
50°	2018	1981	1958
55°	1967	1921	1902
60°	1891	1838	1822
65°	1771	1719	1700
70°	1596	1533	1519
75°	1339	1271	1257
80°	972	907	882
85°	516	454	414

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2044 cd/sqm



TEST NUMBER: P973170
 CATALOG NUMBER: FLR2-14-30HE-L935-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	3.4
10°-20°	214.8	9.7
20°-30°	326.3	14.8
30°-40°	394.7	17.9
40°-50°	410.2	18.6
50°-60°	367.3	16.6
60°-70°	267.9	12.1
70°-80°	131.9	6.0
80°-90°	22.1	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°	615.8	27.9
0°-40°	1010.5	45.7
0°-60°	1787.9	80.9
0°-90°	2209.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2209.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	790	790	790	790	790	
5°	780	789	785	792	779	74
15°	756	763	759	766	755	214
25°	708	711	706	710	700	326
35°	634	635	629	631	622	397
45°	537	537	530	531	524	415
55°	419	416	410	408	406	374
65°	278	275	270	268	267	275
75°	129	126	122	121	121	137
85°	17	16	15	13	13	24
90°	0	0	0	0	0	



TEST NUMBER: P973170
 CATALOG NUMBER: FLR2-14-30HE-L935-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	789.5	789.5	789.5	789.5	789.5
2.5°	782.7	791.5	787.2	795.1	781.0
5°	780.4	788.9	784.9	792.5	779.4
7.5°	776.4	785.3	781.0	788.2	775.8
10°	772.2	780.0	775.5	782.7	769.9
12.5°	764.7	772.5	768.3	774.8	763.0
15°	756.2	763.0	759.1	765.7	754.6
17.5°	746.4	752.9	748.7	754.6	743.4
20°	735.6	740.8	736.3	741.2	730.4
22.5°	722.2	727.1	722.2	725.5	716.0
25°	707.8	711.4	706.5	709.8	700.0
27.5°	692.5	694.4	689.5	692.1	682.0
30°	673.5	675.8	670.6	673.8	664.0
32.5°	655.2	656.5	650.6	653.2	644.4
35°	633.6	634.9	628.7	631.4	622.5
37.5°	613.1	612.7	606.2	607.8	600.3
40°	589.2	588.9	582.0	583.3	576.1
42.5°	564.7	563.4	556.8	557.5	551.0
45°	537.2	536.6	529.7	530.7	524.2
47.5°	510.8	508.8	501.9	502.3	496.7
50°	482.0	479.1	473.2	472.5	467.6
52.5°	451.3	448.0	441.5	440.8	437.2
55°	419.3	415.7	409.5	408.5	405.5
57.5°	386.3	381.7	376.8	374.8	372.5
60°	351.3	347.0	341.5	339.5	338.6
62.5°	315.0	310.8	306.5	304.6	303.3
65°	278.1	274.8	269.9	268.0	267.0
67.5°	240.5	237.6	233.0	230.7	230.4
70°	202.9	200.0	194.8	193.5	193.1
72.5°	165.4	162.7	157.8	156.5	156.5
75°	128.8	126.5	122.2	120.9	120.9
77.5°	94.1	92.2	88.9	87.3	87.3
80°	62.7	61.4	58.5	57.2	56.9
82.5°	36.3	35.6	33.0	31.7	32.4
85°	16.7	16.0	14.7	13.1	13.4
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)