

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: P973411

Luminaire Tested: FLR2-14-30-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973411
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: FLR2-14-30-L935-CA125
Description: 1*4 FLR-2.0 3000 LUMEN at 3500 CCT & 90 CRI Clear Acrylic (0.125" thickness)

Light Source:
Ballast/Driver: -

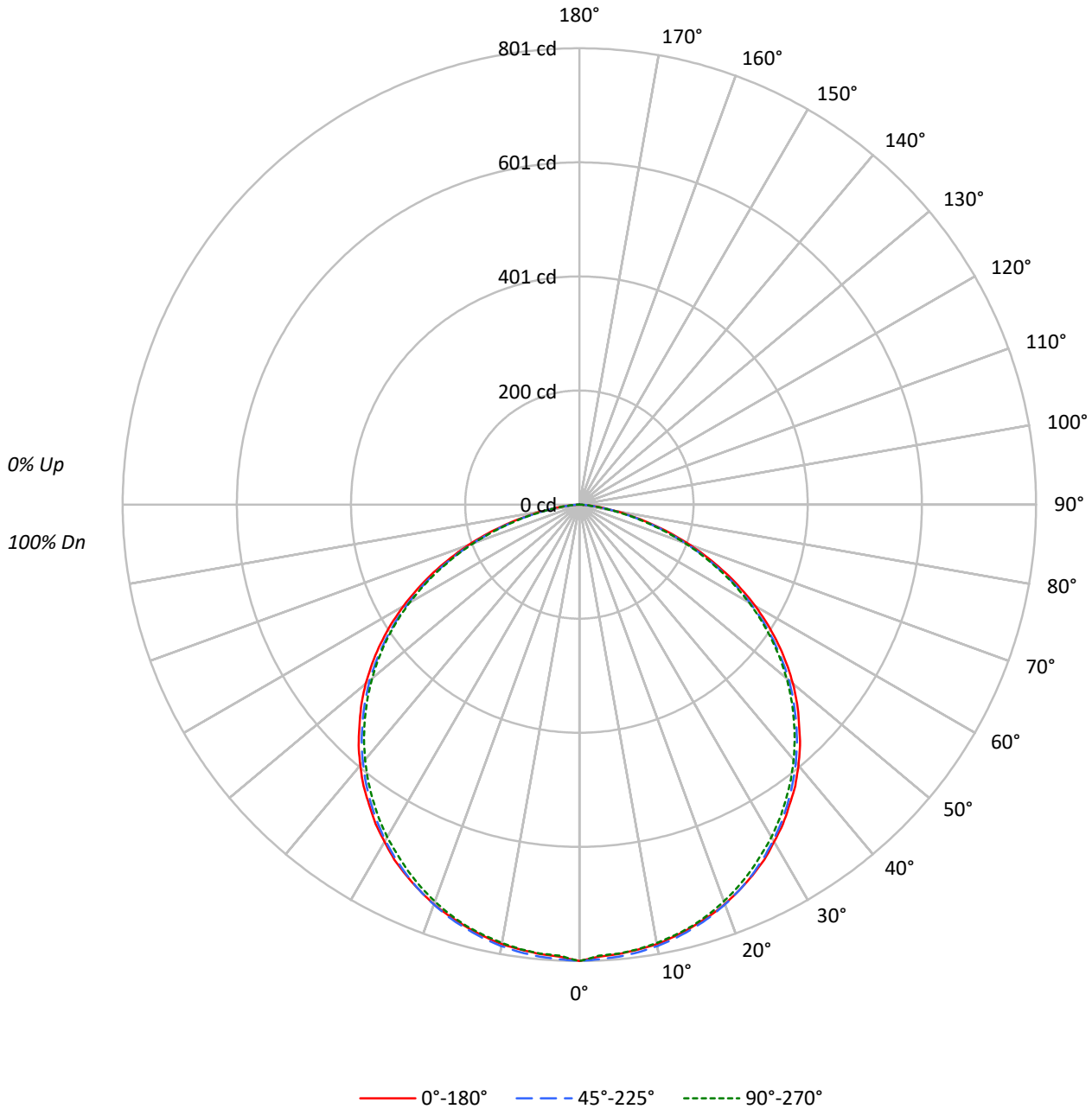
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2242.1 lumens
Efficiency: N/A
Efficacy: 93.8 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): 23.9
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

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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	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°	2156	2156	2156
5°	2139	2151	2136
10°	2141	2150	2135
15°	2138	2146	2133
20°	2137	2139	2122
25°	2132	2129	2109
30°	2124	2114	2094
35°	2112	2096	2075
40°	2100	2074	2054
45°	2074	2046	2024
50°	2048	2010	1986
55°	1996	1949	1931
60°	1918	1865	1849
65°	1797	1744	1725
70°	1620	1555	1542
75°	1358	1289	1276
80°	987	921	894
85°	522	460	420

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2074 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	3.4
10°-20°	217.9	9.7
20°-30°	331.1	14.8
30°-40°	400.5	17.9
40°-50°	416.2	18.6
50°-60°	372.6	16.6
60°-70°	271.8	12.1
70°-80°	133.8	6.0
80°-90°	22.4	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°	624.8	27.9
0°-40°	1025.3	45.7
0°-60°	1814.1	80.9
0°-90°	2242.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2242.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	801	801	801	801	801	
5°	792	800	796	804	791	75
15°	767	774	770	777	766	217
25°	718	722	717	720	710	331
35°	643	644	638	641	632	403
45°	545	544	538	538	532	421
55°	425	422	416	414	412	380
65°	282	279	274	272	271	279
75°	131	128	124	123	123	139
85°	17	16	15	13	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	801.1	801.1	801.1	801.1	801.1
2.5°	794.1	803.1	798.8	806.7	792.5
5°	791.8	800.4	796.4	804.1	790.8
7.5°	787.8	796.8	792.5	799.8	787.2
10°	783.5	791.5	786.8	794.1	781.2
12.5°	775.9	783.8	779.5	786.2	774.2
15°	767.3	774.2	770.3	776.9	765.6
17.5°	757.3	764.0	759.6	765.6	754.3
20°	746.4	751.7	747.0	752.0	741.1
22.5°	732.8	737.8	732.8	736.1	726.5
25°	718.2	721.8	716.9	720.2	710.2
27.5°	702.6	704.6	699.6	702.3	692.0
30°	683.4	685.7	680.4	683.7	673.8
32.5°	664.8	666.1	660.2	662.8	653.9
35°	642.9	644.3	638.0	640.6	631.7
37.5°	622.0	621.7	615.1	616.7	609.1
40°	597.8	597.5	590.5	591.9	584.6
42.5°	573.0	571.6	565.0	565.7	559.0
45°	545.1	544.4	537.5	538.5	531.8
47.5°	518.3	516.3	509.3	509.6	504.0
50°	489.1	486.1	480.1	479.5	474.5
52.5°	457.9	454.6	448.0	447.3	443.6
55°	425.4	421.8	415.5	414.5	411.5
57.5°	391.9	387.3	382.3	380.3	378.0
60°	356.4	352.1	346.5	344.5	343.5
62.5°	319.6	315.3	311.0	309.0	307.7
65°	282.2	278.9	273.9	271.9	270.9
67.5°	244.0	241.1	236.4	234.1	233.8
70°	205.9	202.9	197.6	196.3	196.0
72.5°	167.8	165.1	160.2	158.8	158.8
75°	130.6	128.3	124.0	122.7	122.7
77.5°	95.5	93.5	90.2	88.5	88.5
80°	63.7	62.3	59.4	58.0	57.7
82.5°	36.8	36.1	33.5	32.2	32.8
85°	16.9	16.2	14.9	13.3	13.6
87.5°	4.3	4.0	3.0	2.3	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)