

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: P973438

Luminaire Tested: FLR2-14-30-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973438
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-L940-CP125
Description: 1*4 FLR-2.0 3000 LUMEN at 4000 CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

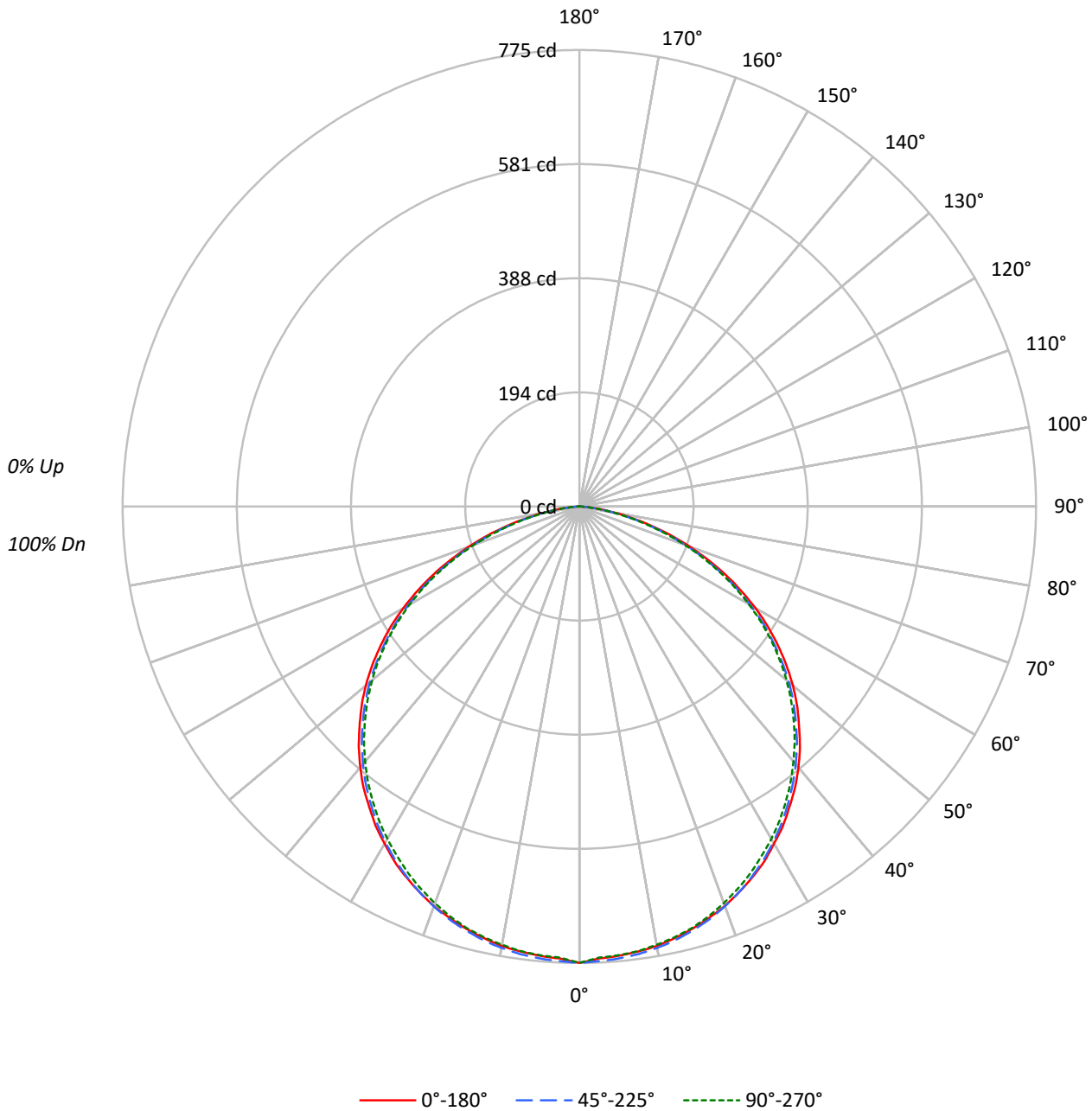
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2168.8 lumens
Efficiency: N/A
Efficacy: 90.7 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°	2085	2085	2085
5°	2069	2081	2066
10°	2071	2080	2065
15°	2068	2076	2063
20°	2068	2069	2053
25°	2063	2059	2040
30°	2054	2045	2025
35°	2043	2027	2007
40°	2031	2007	1987
45°	2007	1979	1958
50°	1981	1944	1922
55°	1931	1886	1867
60°	1856	1804	1788
65°	1738	1687	1668
70°	1567	1504	1492
75°	1314	1248	1234
80°	955	890	865
85°	506	445	408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2007 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	3.4
10°-20°	210.8	9.7
20°-30°	320.2	14.8
30°-40°	387.4	17.9
40°-50°	402.6	18.6
50°-60°	360.4	16.6
60°-70°	262.9	12.1
70°-80°	129.5	6.0
80°-90°	21.6	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°	604.4	27.9
0°-40°	991.8	45.7
0°-60°	1754.8	80.9
0°-90°	2168.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2168.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	766	774	770	778	765	73
15°	742	749	745	752	741	210
25°	695	698	693	697	687	320
35°	622	623	617	620	611	389
45°	527	527	520	521	514	407
55°	412	408	402	401	398	367
65°	273	270	265	263	262	270
75°	126	124	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°	774.9	774.9	774.9	774.9	774.9
2.5°	768.2	776.8	772.7	780.4	766.6
5°	765.9	774.3	770.4	777.8	765.0
7.5°	762.1	770.7	766.6	773.6	761.4
10°	757.9	765.6	761.1	768.2	755.7
12.5°	750.5	758.2	754.1	760.5	748.9
15°	742.2	748.9	745.1	751.5	740.6
17.5°	732.6	739.0	734.8	740.6	729.7
20°	722.0	727.1	722.6	727.4	716.8
22.5°	708.8	713.6	708.8	712.0	702.7
25°	694.7	698.2	693.4	696.6	687.0
27.5°	679.6	681.6	676.8	679.3	669.4
30°	661.0	663.3	658.2	661.4	651.7
32.5°	643.1	644.4	638.6	641.2	632.5
35°	621.9	623.2	617.1	619.7	611.0
37.5°	601.7	601.4	595.0	596.6	589.2
40°	578.3	578.0	571.2	572.5	565.5
42.5°	554.2	553.0	546.5	547.2	540.8
45°	527.3	526.7	519.9	520.9	514.5
47.5°	501.3	499.4	492.7	493.0	487.5
50°	473.1	470.2	464.4	463.8	459.0
52.5°	442.9	439.7	433.3	432.7	429.1
55°	411.5	408.0	401.9	400.9	398.0
57.5°	379.1	374.6	369.8	367.9	365.6
60°	344.8	340.6	335.2	333.2	332.3
62.5°	309.2	305.0	300.9	298.9	297.6
65°	272.9	269.7	264.9	263.0	262.0
67.5°	236.1	233.2	228.7	226.4	226.1
70°	199.2	196.3	191.2	189.9	189.6
72.5°	162.3	159.7	154.9	153.6	153.6
75°	126.4	124.1	120.0	118.7	118.7
77.5°	92.4	90.4	87.2	85.6	85.6
80°	61.6	60.3	57.4	56.1	55.8
82.5°	35.6	35.0	32.4	31.1	31.8
85°	16.4	15.7	14.4	12.8	13.2
87.5°	4.2	3.8	2.9	2.2	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)