

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: P973370

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973370
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: FLR2-14-42-L930-CA125
Description: 1*4 FLR-2.0 4200 LUMEN at 3000CCT & 90CRI with Clear Acrylic (0.125" thickness)

Light Source:
Ballast/Driver: -

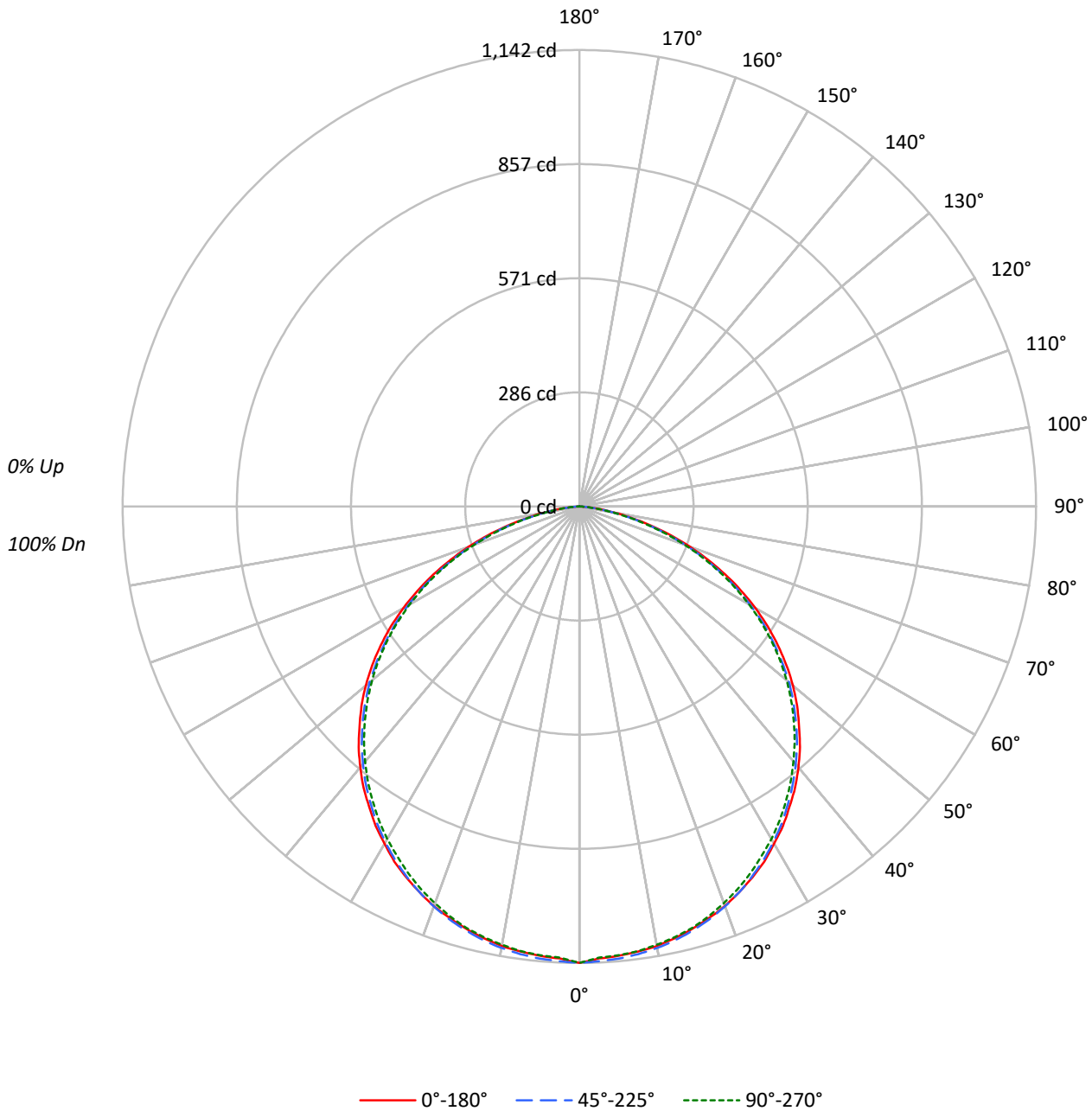
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3196.2 lumens
Efficiency: N/A
Efficacy: 100.8 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): 31.7
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°	3073	3073	3073
5°	3049	3067	3045
10°	3052	3065	3043
15°	3047	3059	3041
20°	3047	3050	3025
25°	3040	3034	3006
30°	3027	3014	2985
35°	3011	2987	2958
40°	2994	2957	2927
45°	2957	2916	2885
50°	2919	2865	2832
55°	2845	2779	2752
60°	2735	2658	2636
65°	2561	2486	2459
70°	2309	2216	2198
75°	1936	1838	1818
80°	1407	1311	1274
85°	744	658	599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2957 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	3.4
10°-20°	310.6	9.7
20°-30°	471.9	14.8
30°-40°	570.9	17.9
40°-50°	593.3	18.6
50°-60°	531.2	16.6
60°-70°	387.4	12.1
70°-80°	190.8	6.0
80°-90°	31.9	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°	890.7	27.9
0°-40°	1461.6	45.7
0°-60°	2586.1	80.9
0°-90°	3196.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3196.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1129	1141	1135	1146	1127	107
15°	1094	1104	1098	1108	1091	309
25°	1024	1029	1022	1027	1012	472
35°	916	918	909	913	900	574
45°	777	776	766	768	758	600
55°	606	601	592	591	587	541
65°	402	398	390	388	386	397
75°	186	183	177	175	175	199
85°	24	23	21	19	19	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.0	1142.0	1142.0	1142.0	1142.0
2.5°	1132.0	1144.8	1138.7	1150.0	1129.7
5°	1128.7	1141.0	1135.4	1146.2	1127.3
7.5°	1123.1	1135.8	1129.7	1140.1	1122.1
10°	1116.9	1128.3	1121.6	1132.0	1113.6
12.5°	1106.0	1117.4	1111.2	1120.7	1103.7
15°	1093.8	1103.7	1098.0	1107.5	1091.4
17.5°	1079.6	1089.0	1082.9	1091.4	1075.3
20°	1064.0	1071.5	1064.9	1072.0	1056.4
22.5°	1044.6	1051.7	1044.6	1049.3	1035.6
25°	1023.8	1029.0	1021.9	1026.6	1012.5
27.5°	1001.6	1004.4	997.3	1001.1	986.5
30°	974.2	977.5	969.9	974.6	960.5
32.5°	947.7	949.6	941.1	944.9	932.1
35°	916.5	918.4	909.4	913.2	900.4
37.5°	886.7	886.3	876.8	879.2	868.3
40°	852.2	851.8	841.8	843.7	833.3
42.5°	816.8	814.9	805.4	806.4	796.9
45°	777.1	776.1	766.2	767.6	758.2
47.5°	738.8	735.9	726.0	726.5	718.5
50°	697.2	692.9	684.4	683.5	676.4
52.5°	652.8	648.0	638.6	637.6	632.4
55°	606.4	601.2	592.3	590.8	586.6
57.5°	558.7	552.1	545.0	542.2	538.8
60°	508.1	502.0	493.9	491.1	489.7
62.5°	455.7	449.5	443.4	440.5	438.6
65°	402.2	397.5	390.4	387.6	386.2
67.5°	347.9	343.6	337.0	333.7	333.2
70°	293.5	289.3	281.7	279.8	279.3
72.5°	239.2	235.4	228.3	226.4	226.4
75°	186.2	182.9	176.8	174.9	174.9
77.5°	136.1	133.3	128.6	126.2	126.2
80°	90.8	88.9	84.6	82.7	82.2
82.5°	52.5	51.5	47.7	45.8	46.8
85°	24.1	23.2	21.3	18.9	19.4
87.5°	6.1	5.7	4.3	3.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)