

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: P973361

Luminaire Tested: FLR2-14-42-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973361
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-CP250
Description: 1*4 FLR-2.0 4200 LUMEN at 3000CCT & 80CRI with Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

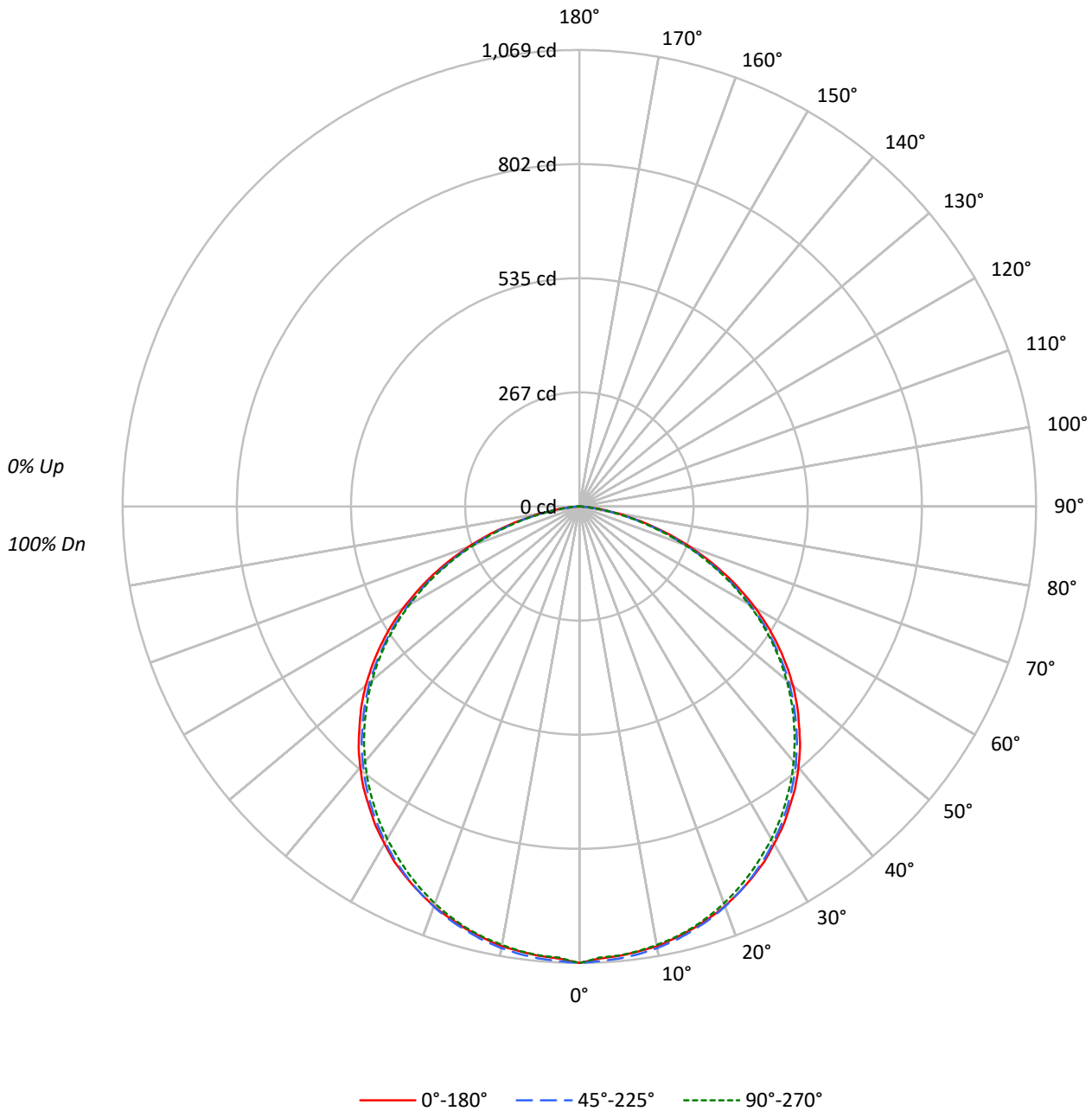
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2992.6 lumens
Efficiency: N/A
Efficacy: 94.4 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										
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°	2877	2877	2877
5°	2855	2871	2851
10°	2857	2870	2849
15°	2853	2864	2847
20°	2853	2855	2832
25°	2846	2841	2814
30°	2834	2822	2794
35°	2819	2797	2770
40°	2803	2769	2741
45°	2769	2730	2702
50°	2733	2683	2651
55°	2664	2601	2577
60°	2560	2489	2468
65°	2398	2327	2302
70°	2162	2076	2057
75°	1813	1721	1702
80°	1317	1227	1193
85°	698	614	559

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2769 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	3.4
10°-20°	290.8	9.7
20°-30°	441.8	14.8
30°-40°	534.5	17.9
40°-50°	555.5	18.6
50°-60°	497.3	16.6
60°-70°	362.7	12.1
70°-80°	178.6	6.0
80°-90°	29.9	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°	834.0	27.9
0°-40°	1368.4	45.7
0°-60°	2421.3	80.9
0°-90°	2992.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2992.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	1057	1068	1063	1073	1056	101
15°	1024	1033	1028	1037	1022	289
25°	959	963	957	961	948	442
35°	858	860	852	855	843	537
45°	728	727	717	719	710	562
55°	568	563	554	553	549	507
65°	377	372	366	363	362	372
75°	174	171	166	164	164	186
85°	23	22	20	18	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1069.2	1069.2	1069.2	1069.2	1069.2
2.5°	1059.9	1071.9	1066.1	1076.7	1057.7
5°	1056.8	1068.3	1063.0	1073.2	1055.5
7.5°	1051.5	1063.4	1057.7	1067.4	1050.6
10°	1045.7	1056.4	1050.2	1059.9	1042.6
12.5°	1035.6	1046.2	1040.4	1049.3	1033.4
15°	1024.1	1033.4	1028.0	1036.9	1021.8
17.5°	1010.8	1019.6	1013.9	1021.8	1006.8
20°	996.2	1003.3	997.1	1003.7	989.1
22.5°	978.0	984.7	978.0	982.5	969.6
25°	958.6	963.4	956.8	961.2	947.9
27.5°	937.8	940.4	933.8	937.3	923.6
30°	912.1	915.2	908.1	912.5	899.3
32.5°	887.3	889.1	881.1	884.7	872.7
35°	858.1	859.9	851.5	855.0	843.1
37.5°	830.2	829.8	820.9	823.1	813.0
40°	797.9	797.5	788.2	790.0	780.2
42.5°	764.7	763.0	754.1	755.0	746.1
45°	727.6	726.7	717.4	718.7	709.9
47.5°	691.7	689.1	679.8	680.2	672.7
50°	652.8	648.8	640.8	639.9	633.3
52.5°	611.2	606.7	597.9	597.0	592.1
55°	567.8	562.9	554.5	553.2	549.2
57.5°	523.1	516.9	510.3	507.6	504.5
60°	475.7	470.0	462.5	459.8	458.5
62.5°	426.6	420.9	415.1	412.5	410.7
65°	376.6	372.2	365.5	362.9	361.6
67.5°	325.7	321.7	315.5	312.4	312.0
70°	274.8	270.8	263.8	262.0	261.5
72.5°	223.9	220.4	213.8	212.0	212.0
75°	174.4	171.3	165.5	163.7	163.7
77.5°	127.5	124.8	120.4	118.2	118.2
80°	85.0	83.2	79.2	77.4	77.0
82.5°	49.1	48.2	44.7	42.9	43.8
85°	22.6	21.7	19.9	17.7	18.1
87.5°	5.8	5.3	4.0	3.1	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)