

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: P973403

Luminaire Tested: FLR2-14-42-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973403
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-L935-CP250
Description: 1*4 FLR-2.0 4200 LUMEN at 3500 CCT & 90 CRI with Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

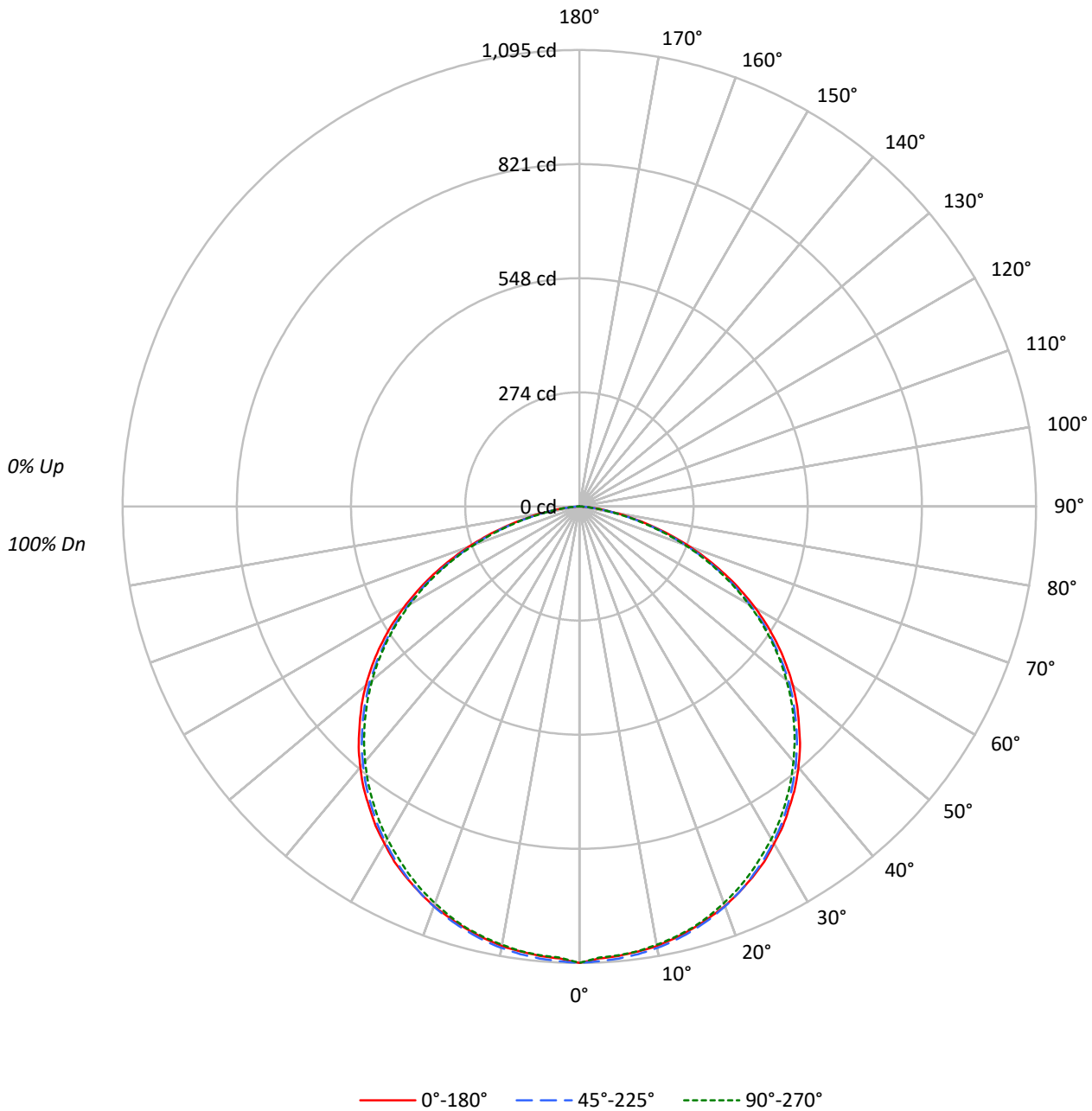
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3064.7 lumens
Efficiency: N/A
Efficacy: 96.7 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): 31.7
Input Voltage (V): 120
Input Current (A_{in}): 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									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	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°	2947	2947	2947
5°	2924	2941	2920
10°	2926	2939	2918
15°	2922	2933	2915
20°	2922	2924	2901
25°	2915	2909	2882
30°	2903	2890	2861
35°	2887	2865	2836
40°	2870	2836	2807
45°	2836	2796	2767
50°	2799	2748	2715
55°	2728	2664	2639
60°	2622	2549	2527
65°	2456	2384	2358
70°	2214	2125	2107
75°	1857	1762	1744
80°	1348	1257	1223
85°	713	630	574

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2836 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	3.4
10°-20°	297.8	9.7
20°-30°	452.5	14.8
30°-40°	547.4	17.9
40°-50°	568.9	18.6
50°-60°	509.3	16.6
60°-70°	371.5	12.1
70°-80°	182.9	6.0
80°-90°	30.6	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°	854.1	27.9
0°-40°	1401.4	45.7
0°-60°	2479.6	80.9
0°-90°	3064.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3064.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1082	1094	1089	1099	1081	103
15°	1049	1058	1053	1062	1046	296
25°	982	987	980	984	971	453
35°	879	881	872	876	863	550
45°	745	744	735	736	727	575
55°	582	576	568	566	562	519
65°	386	381	374	372	370	381
75°	179	175	170	168	168	190
85°	23	22	20	18	19	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1095.0	1095.0	1095.0	1095.0	1095.0
2.5°	1085.4	1097.7	1091.8	1102.7	1083.2
5°	1082.3	1094.1	1088.6	1099.0	1080.9
7.5°	1076.8	1089.1	1083.2	1093.2	1075.9
10°	1070.9	1081.8	1075.5	1085.4	1067.8
12.5°	1060.5	1071.4	1065.5	1074.6	1058.3
15°	1048.7	1058.3	1052.8	1061.9	1046.5
17.5°	1035.1	1044.2	1038.3	1046.5	1031.1
20°	1020.2	1027.4	1021.1	1027.9	1012.9
22.5°	1001.6	1008.4	1001.6	1006.1	993.0
25°	981.7	986.6	979.8	984.4	970.8
27.5°	960.4	963.1	956.3	959.9	945.9
30°	934.1	937.2	930.0	934.5	920.9
32.5°	908.7	910.5	902.3	906.0	893.7
35°	878.8	880.6	872.0	875.6	863.4
37.5°	850.2	849.8	840.7	843.0	832.6
40°	817.1	816.7	807.2	809.0	799.0
42.5°	783.2	781.3	772.3	773.2	764.1
45°	745.1	744.2	734.7	736.0	727.0
47.5°	708.4	705.7	696.1	696.6	688.9
50°	668.5	664.4	656.3	655.3	648.5
52.5°	625.9	621.4	612.3	611.4	606.4
55°	581.5	576.5	567.9	566.5	562.4
57.5°	535.7	529.4	522.6	519.8	516.7
60°	487.2	481.3	473.6	470.9	469.5
62.5°	436.9	431.0	425.1	422.4	420.6
65°	385.7	381.2	374.4	371.6	370.3
67.5°	333.6	329.5	323.1	320.0	319.5
70°	281.4	277.4	270.1	268.3	267.8
72.5°	229.3	225.7	218.9	217.1	217.1
75°	178.6	175.4	169.5	167.7	167.7
77.5°	130.5	127.8	123.3	121.0	121.0
80°	87.0	85.2	81.1	79.3	78.9
82.5°	50.3	49.4	45.8	44.0	44.9
85°	23.1	22.2	20.4	18.1	18.6
87.5°	5.9	5.4	4.1	3.2	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)