

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: P973484

Luminaire Tested: FLR2-14-42-L950-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973484
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-L950-CP187
Description: 1*4 FLR-2.0 4200 LUMEN at 5000 CCT & 90 CRI with Clear Polycarbonate (0.187" thickness)

Light Source:
Ballast/Driver: -

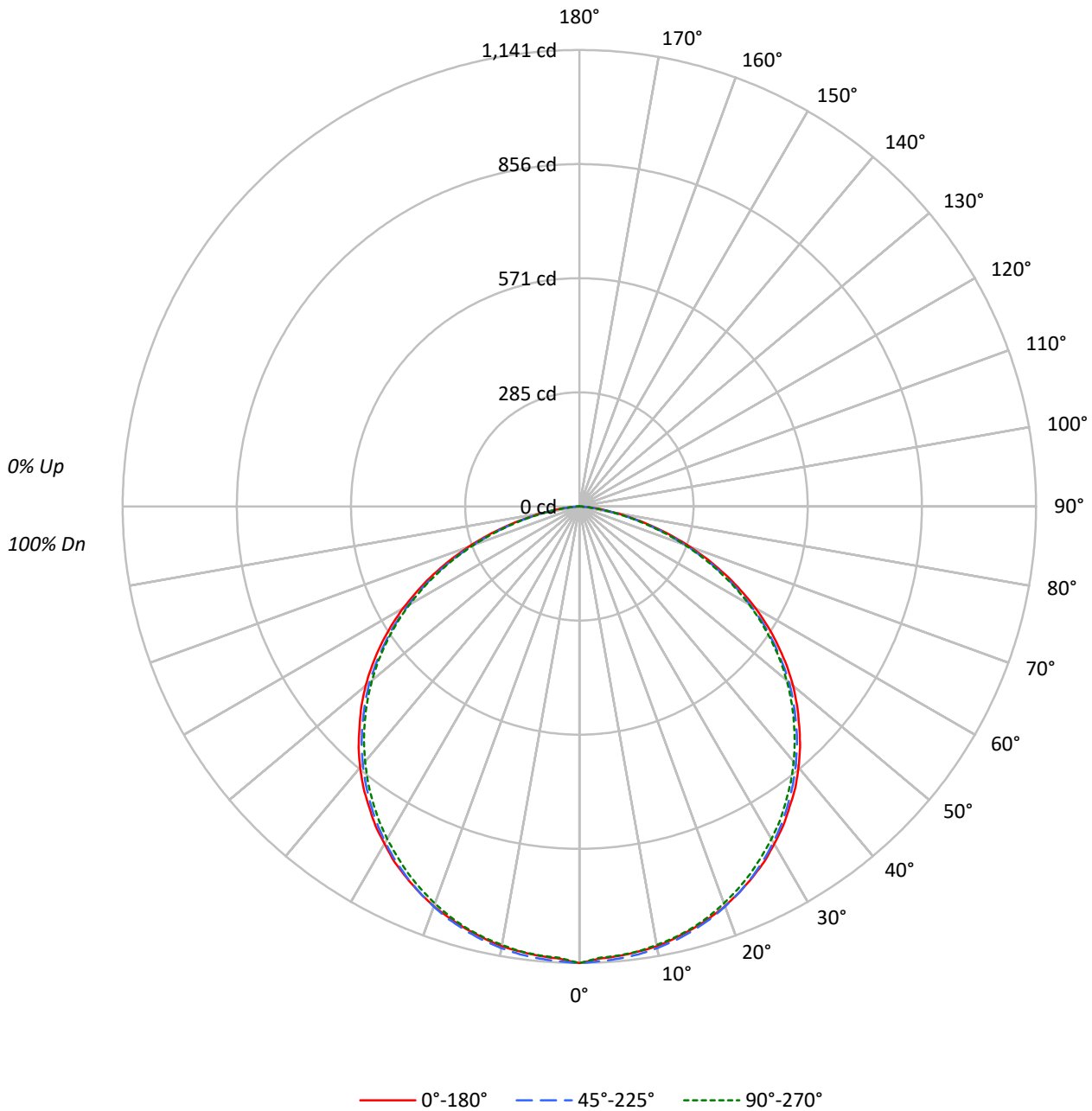
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3194.7 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									
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°	3071	3071	3071
5°	3048	3065	3044
10°	3051	3063	3042
15°	3046	3058	3039
20°	3046	3048	3024
25°	3038	3033	3005
30°	3026	3013	2983
35°	3009	2986	2957
40°	2992	2956	2926
45°	2956	2914	2884
50°	2918	2864	2830
55°	2844	2777	2751
60°	2733	2657	2634
65°	2560	2485	2458
70°	2308	2216	2197
75°	1935	1837	1817
80°	1406	1311	1274
85°	744	658	599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2956 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	3.4
10°-20°	310.5	9.7
20°-30°	471.7	14.8
30°-40°	570.6	17.9
40°-50°	593.0	18.6
50°-60°	531.0	16.6
60°-70°	387.3	12.1
70°-80°	190.7	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°	890.3	27.9
0°-40°	1460.9	45.7
0°-60°	2584.9	80.9
0°-90°	3194.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3194.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1141	1141	1141	1141	1141	
5°	1128	1140	1135	1146	1127	107
15°	1093	1103	1098	1107	1091	309
25°	1023	1028	1021	1026	1012	472
35°	916	918	909	913	900	574
45°	777	776	766	767	758	600
55°	606	601	592	591	586	541
65°	402	397	390	387	386	397
75°	186	183	177	175	175	198
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°	1141.4	1141.4	1141.4	1141.4	1141.4
2.5°	1131.5	1144.3	1138.1	1149.5	1129.2
5°	1128.2	1140.5	1134.8	1145.7	1126.8
7.5°	1122.5	1135.3	1129.2	1139.5	1121.6
10°	1116.4	1127.7	1121.1	1131.5	1113.1
12.5°	1105.5	1116.9	1110.7	1120.2	1103.2
15°	1093.2	1103.2	1097.5	1106.9	1090.9
17.5°	1079.1	1088.5	1082.4	1090.9	1074.8
20°	1063.5	1071.0	1064.4	1071.5	1055.9
22.5°	1044.1	1051.2	1044.1	1048.8	1035.1
25°	1023.3	1028.5	1021.4	1026.2	1012.0
27.5°	1001.1	1004.0	996.9	1000.6	986.0
30°	973.7	977.0	969.5	974.2	960.0
32.5°	947.3	949.2	940.6	944.4	931.7
35°	916.1	918.0	909.0	912.8	900.0
37.5°	886.3	885.8	876.4	878.8	867.9
40°	851.8	851.4	841.4	843.3	832.9
42.5°	816.4	814.5	805.1	806.0	796.5
45°	776.7	775.8	765.8	767.3	757.8
47.5°	738.4	735.6	725.7	726.2	718.1
50°	696.9	692.6	684.1	683.2	676.1
52.5°	652.5	647.7	638.3	637.3	632.1
55°	606.2	601.0	592.0	590.6	586.3
57.5°	558.4	551.8	544.7	541.9	538.6
60°	507.9	501.7	493.7	490.9	489.5
62.5°	455.4	449.3	443.2	440.3	438.4
65°	402.1	397.3	390.2	387.4	386.0
67.5°	347.7	343.5	336.9	333.5	333.1
70°	293.4	289.1	281.6	279.7	279.2
72.5°	239.1	235.3	228.2	226.3	226.3
75°	186.1	182.8	176.7	174.8	174.8
77.5°	136.1	133.2	128.5	126.1	126.1
80°	90.7	88.8	84.6	82.7	82.2
82.5°	52.4	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)