

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: P973481

Luminaire Tested: FLR2-14-42-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973481
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-CP125
Description: 1*4 FLR-2.0 4200 LUMEN at 5000 CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

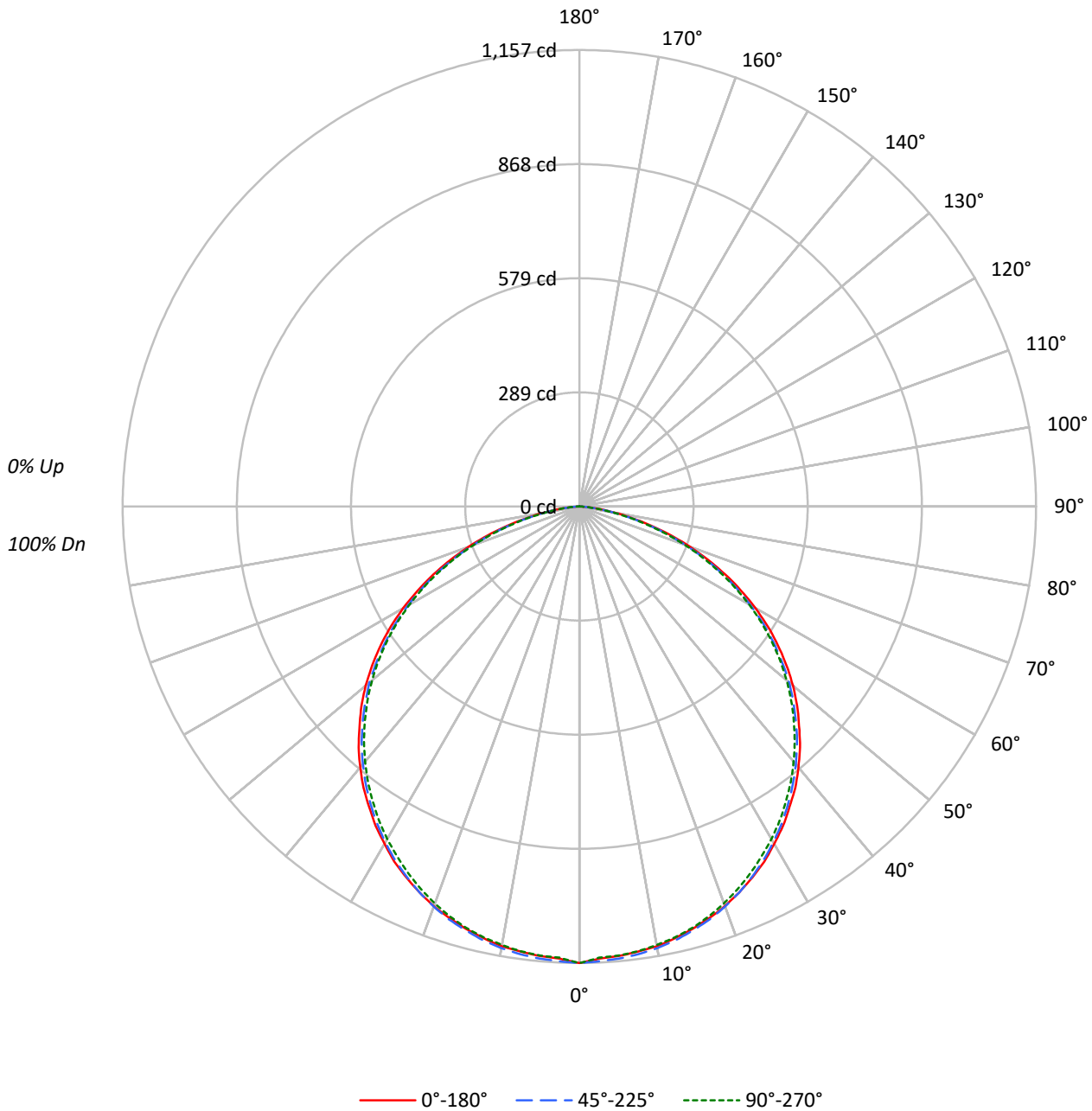
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3239.0 lumens
Efficiency: N/A
Efficacy: 102.2 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

TEST NUMBER: P973481
CATALOG NUMBER: FLR2-14-42-L950-CP125

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°	3114	3114	3114
5°	3090	3108	3086
10°	3093	3106	3084
15°	3088	3100	3081
20°	3088	3090	3066
25°	3081	3075	3046
30°	3068	3054	3024
35°	3051	3028	2998
40°	3034	2997	2967
45°	2997	2955	2924
50°	2958	2904	2869
55°	2883	2816	2789
60°	2771	2694	2671
65°	2595	2520	2492
70°	2341	2246	2227
75°	1962	1862	1842
80°	1426	1328	1291
85°	753	667	605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2997 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	3.4
10°-20°	314.8	9.7
20°-30°	478.2	14.8
30°-40°	578.5	17.9
40°-50°	601.2	18.6
50°-60°	538.3	16.6
60°-70°	392.6	12.1
70°-80°	193.3	6.0
80°-90°	32.3	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°	902.7	27.9
0°-40°	1481.2	45.7
0°-60°	2620.7	80.9
0°-90°	3239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1157	1157	1157	1157	1157	
5°	1144	1156	1151	1162	1142	109
15°	1108	1118	1113	1122	1106	313
25°	1038	1043	1036	1040	1026	478
35°	929	931	922	925	912	582
45°	788	786	776	778	768	608
55°	615	609	600	599	594	549
65°	408	403	396	393	391	403
75°	189	185	179	177	177	201
85°	24	24	22	19	20	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1157.3	1157.3	1157.3	1157.3	1157.3
2.5°	1147.2	1160.1	1153.9	1165.4	1144.8
5°	1143.9	1156.3	1150.6	1161.6	1142.4
7.5°	1138.1	1151.0	1144.8	1155.3	1137.1
10°	1131.9	1143.4	1136.7	1147.2	1128.5
12.5°	1120.9	1132.4	1126.1	1135.7	1118.5
15°	1108.4	1118.5	1112.7	1122.3	1106.0
17.5°	1094.0	1103.6	1097.4	1106.0	1089.7
20°	1078.2	1085.9	1079.2	1086.4	1070.6
22.5°	1058.6	1065.8	1058.6	1063.4	1049.5
25°	1037.5	1042.8	1035.6	1040.4	1026.0
27.5°	1015.0	1017.9	1010.7	1014.5	999.7
30°	987.2	990.6	982.9	987.7	973.3
32.5°	960.4	962.3	953.7	957.5	944.6
35°	928.8	930.7	921.6	925.4	912.5
37.5°	898.6	898.1	888.5	890.9	879.9
40°	863.6	863.2	853.1	855.0	844.5
42.5°	827.7	825.8	816.2	817.2	807.6
45°	787.5	786.5	776.5	777.9	768.3
47.5°	748.7	745.8	735.7	736.2	728.1
50°	706.5	702.2	693.6	692.6	685.4
52.5°	661.5	656.7	647.1	646.2	640.9
55°	614.6	609.3	600.2	598.7	594.4
57.5°	566.2	559.5	552.3	549.4	546.1
60°	514.9	508.7	500.6	497.7	496.2
62.5°	461.8	455.5	449.3	446.4	444.5
65°	407.6	402.8	395.7	392.8	391.3
67.5°	352.5	348.2	341.5	338.2	337.7
70°	297.5	293.1	285.5	283.6	283.1
72.5°	242.4	238.5	231.4	229.4	229.4
75°	188.7	185.4	179.1	177.2	177.2
77.5°	138.0	135.1	130.3	127.9	127.9
80°	92.0	90.1	85.7	83.8	83.3
82.5°	53.2	52.2	48.4	46.5	47.4
85°	24.4	23.5	21.6	19.2	19.6
87.5°	6.2	5.7	4.3	3.4	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)