

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: P973496

Luminaire Tested: FLR2-14-42-L950-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973496
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-CA125
Description: 1*4 FLR-2.0 4200 LUMEN at 5000 CCT & 90 CRI with Clear Acrylic (0.125" thickness)

Light Source:
Ballast/Driver: -

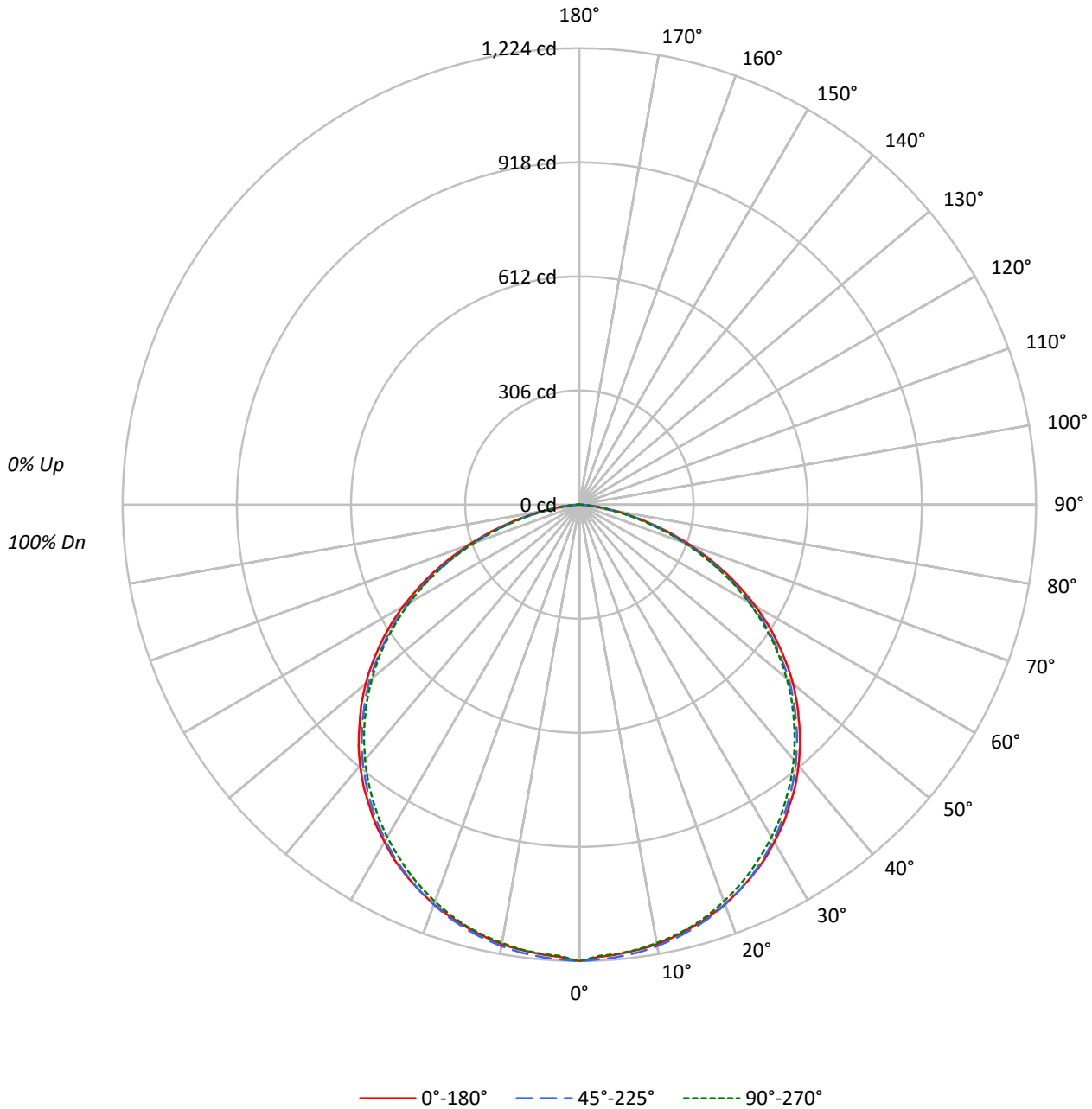
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3427.3 lumens
Efficiency: N/A
Efficacy: 108.1 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: P973496
CATALOG NUMBER: FLR2-14-42-L950-CA125

Luminous Intensity Polar Plot





TEST NUMBER: P973496
 CATALOG NUMBER: FLR2-14-42-L950-CA125

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°	3295	3295	3295
5°	3269	3289	3265
10°	3273	3286	3263
15°	3267	3280	3260
20°	3267	3270	3244
25°	3260	3254	3223
30°	3246	3232	3200
35°	3229	3204	3172
40°	3210	3171	3139
45°	3171	3127	3094
50°	3130	3072	3036
55°	3051	2980	2951
60°	2933	2850	2826
65°	2746	2665	2637
70°	2476	2377	2356
75°	2076	1971	1949
80°	1508	1406	1367
85°	797	704	642

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3171 cd/sqm



TEST NUMBER: P973496
 CATALOG NUMBER: FLR2-14-42-L950-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	3.4
10°-20°	333.1	9.7
20°-30°	506.0	14.8
30°-40°	612.1	17.9
40°-50°	636.2	18.6
50°-60°	569.6	16.6
60°-70°	415.4	12.1
70°-80°	204.6	6.0
80°-90°	34.2	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°	955.1	27.9
0°-40°	1567.2	45.7
0°-60°	2773.0	80.9
0°-90°	3427.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3427.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1210	1224	1217	1229	1209	115
15°	1173	1184	1177	1188	1170	331
25°	1098	1103	1096	1101	1086	506
35°	983	985	975	979	966	615
45°	833	832	822	823	813	643
55°	650	645	635	634	629	580
65°	431	426	419	416	414	426
75°	200	196	190	188	188	213
85°	26	25	23	20	21	37
90°	0	0	0	0	0	



TEST NUMBER: P973496
 CATALOG NUMBER: FLR2-14-42-L950-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1224.5	1224.5	1224.5	1224.5	1224.5
2.5°	1213.9	1227.6	1221.0	1233.1	1211.3
5°	1210.3	1223.5	1217.4	1229.1	1208.8
7.5°	1204.2	1217.9	1211.3	1222.5	1203.2
10°	1197.7	1209.8	1202.7	1213.9	1194.1
12.5°	1186.0	1198.2	1191.6	1201.7	1183.5
15°	1172.8	1183.5	1177.4	1187.5	1170.3
17.5°	1157.6	1167.8	1161.2	1170.3	1153.1
20°	1140.9	1149.0	1141.9	1149.5	1132.8
22.5°	1120.1	1127.7	1120.1	1125.2	1110.5
25°	1097.8	1103.4	1095.8	1100.9	1085.6
27.5°	1074.0	1077.0	1069.4	1073.5	1057.8
30°	1044.6	1048.1	1040.0	1045.1	1029.9
32.5°	1016.2	1018.2	1009.1	1013.2	999.5
35°	982.8	984.8	975.2	979.2	965.5
37.5°	950.8	950.3	940.2	942.7	931.1
40°	913.8	913.3	902.7	904.7	893.6
42.5°	875.8	873.8	863.7	864.7	854.5
45°	833.2	832.2	821.6	823.1	813.0
47.5°	792.2	789.1	778.5	779.0	770.4
50°	747.6	743.0	733.9	732.9	725.3
52.5°	699.9	694.9	684.7	683.7	678.2
55°	650.3	644.7	635.1	633.5	629.0
57.5°	599.1	592.0	584.4	581.3	577.8
60°	544.9	538.3	529.6	526.6	525.1
62.5°	488.6	482.0	475.4	472.4	470.3
65°	431.3	426.3	418.6	415.6	414.1
67.5°	373.0	368.5	361.4	357.8	357.3
70°	314.7	310.2	302.1	300.0	299.5
72.5°	256.5	252.4	244.8	242.8	242.8
75°	199.7	196.1	189.6	187.5	187.5
77.5°	146.0	142.9	137.9	135.3	135.3
80°	97.3	95.3	90.7	88.7	88.2
82.5°	56.3	55.2	51.2	49.2	50.2
85°	25.8	24.8	22.8	20.3	20.8
87.5°	6.6	6.1	4.6	3.5	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)