

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: P973397

Luminaire Tested: FLR2-14-42-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973397
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-CP125
Description: 1*4 FLR-2.0 4200 LUMEN at 3500 CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

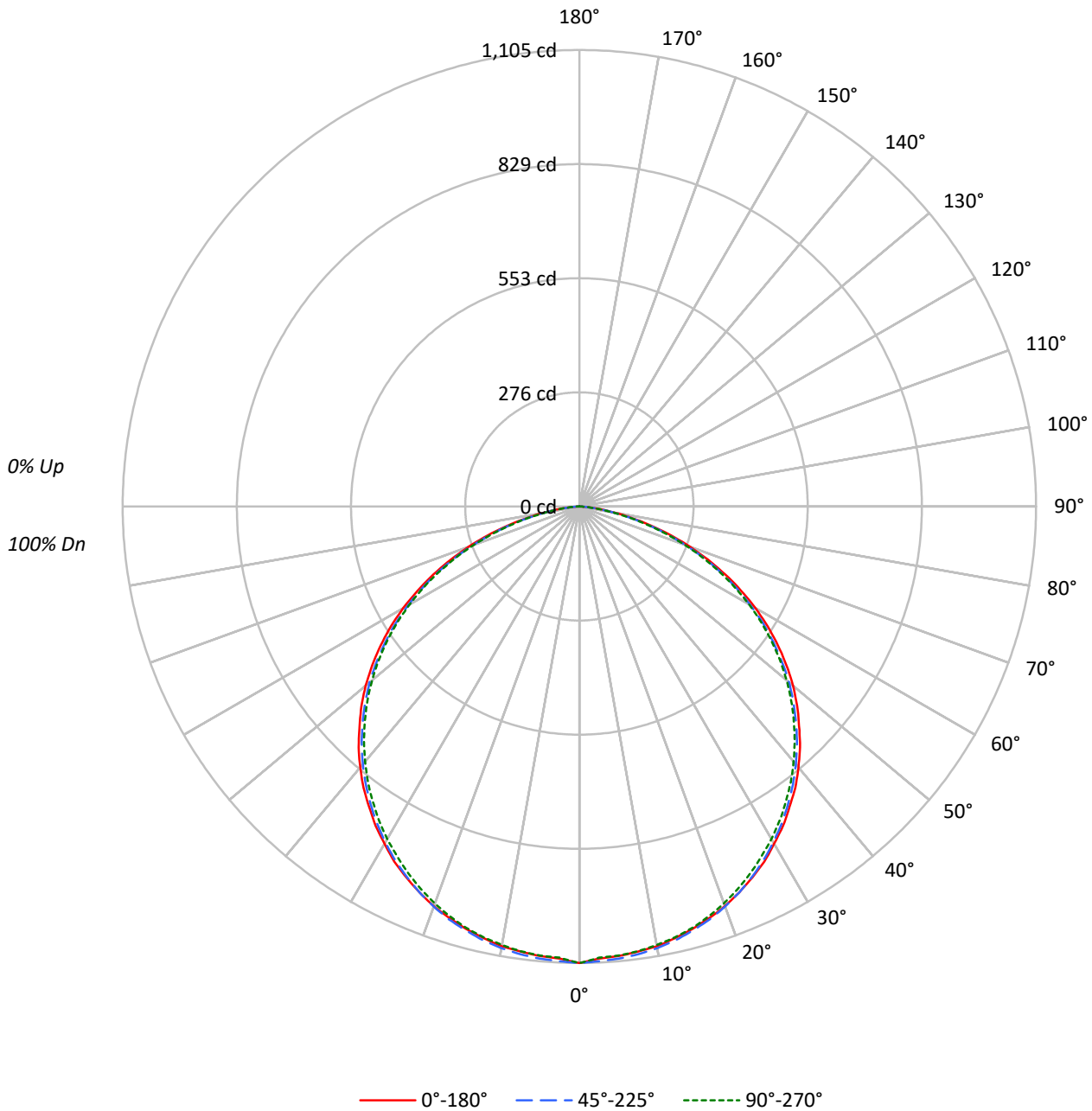
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3093.4 lumens
Efficiency: N/A
Efficacy: 97.6 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: P973397
CATALOG NUMBER: FLR2-14-42-L935-CP125

Luminous Intensity Polar Plot





TEST NUMBER: P973397
 CATALOG NUMBER: FLR2-14-42-L935-CP125

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°	2974	2974	2974
5°	2951	2968	2947
10°	2954	2966	2945
15°	2949	2961	2943
20°	2949	2952	2928
25°	2942	2937	2909
30°	2930	2917	2889
35°	2914	2892	2863
40°	2897	2862	2833
45°	2862	2822	2793
50°	2825	2773	2740
55°	2753	2689	2663
60°	2647	2573	2551
65°	2479	2406	2380
70°	2235	2146	2127
75°	1874	1779	1760
80°	1361	1269	1234
85°	719	636	580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2862 cd/sqm



TEST NUMBER: P973397
 CATALOG NUMBER: FLR2-14-42-L935-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	3.4
10°-20°	300.6	9.7
20°-30°	456.7	14.8
30°-40°	552.5	17.9
40°-50°	574.2	18.6
50°-60°	514.1	16.6
60°-70°	375.0	12.1
70°-80°	184.7	6.0
80°-90°	30.9	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°	862.1	27.9
0°-40°	1414.6	45.7
0°-60°	2502.9	80.9
0°-90°	3093.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3093.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1092	1104	1099	1109	1091	104
15°	1059	1068	1063	1072	1056	299
25°	991	996	989	994	980	457
35°	887	889	880	884	872	555
45°	752	751	742	743	734	581
55°	587	582	573	572	568	524
65°	389	385	378	375	374	385
75°	180	177	171	169	169	192
85°	23	22	21	18	19	34
90°	0	0	0	0	0	



TEST NUMBER: P973397
 CATALOG NUMBER: FLR2-14-42-L935-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.3	1105.3	1105.3	<i>1105.3</i>	1105.3
2.5°	<i>1095.6</i>	<i>1108.0</i>	<i>1102.0</i>	<i>1113.0</i>	<i>1093.4</i>
5°	1092.4	1104.3	1098.8	<i>1109.4</i>	1091.1
7.5°	1087.0	1099.3	1093.4	<i>1103.4</i>	1086.0
10°	1081.0	1092.0	1085.6	<i>1095.6</i>	1077.8
12.5°	1070.5	1081.5	1075.5	<i>1084.7</i>	1068.2
15°	1058.6	1068.2	1062.7	<i>1071.9</i>	1056.3
17.5°	1044.9	1054.0	1048.1	<i>1056.3</i>	1040.7
20°	1029.8	1037.1	1030.7	<i>1037.5</i>	1022.4
22.5°	1011.0	1017.9	1011.0	<i>1015.6</i>	1002.3
25°	990.9	995.9	989.1	<i>993.6</i>	979.9
27.5°	969.4	972.1	965.3	<i>968.9</i>	954.7
30°	942.8	946.1	938.7	<i>943.3</i>	929.6
32.5°	917.2	919.1	910.8	<i>914.5</i>	902.1
35°	887.0	888.9	880.2	<i>883.8</i>	871.5
37.5°	858.2	857.8	848.6	<i>850.9</i>	840.4
40°	824.8	824.4	814.8	<i>816.6</i>	806.5
42.5°	790.5	788.7	779.5	<i>780.4</i>	771.3
45°	752.1	751.2	741.6	<i>742.9</i>	733.8
47.5°	715.0	712.3	702.7	<i>703.1</i>	695.4
50°	674.8	670.7	662.4	<i>661.5</i>	654.6
52.5°	631.8	627.2	618.0	<i>617.1</i>	612.1
55°	586.9	581.9	573.2	<i>571.8</i>	567.7
57.5°	540.7	534.3	527.5	<i>524.7</i>	521.5
60°	491.8	485.8	478.1	<i>475.3</i>	473.9
62.5°	441.0	435.1	429.1	<i>426.4</i>	424.5
65°	389.3	384.7	377.9	<i>375.1</i>	373.8
67.5°	336.7	332.6	326.2	<i>323.0</i>	322.5
70°	284.1	280.0	272.7	<i>270.8</i>	270.4
72.5°	231.5	227.8	221.0	<i>219.1</i>	219.1
75°	180.2	177.0	171.1	<i>169.3</i>	169.3
77.5°	131.8	129.0	124.4	<i>122.1</i>	122.1
80°	87.8	86.0	81.9	<i>80.1</i>	79.6
82.5°	50.8	49.9	46.2	<i>44.4</i>	45.3
85°	23.3	22.4	20.6	<i>18.3</i>	18.8
87.5°	5.9	5.5	4.1	<i>3.2</i>	4.1
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)