

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: P973439

Luminaire Tested: FLR2-14-42-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973439
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-L940-CP125
Description: 1*4 FLR-2.0 4200 LUMEN at 4000 CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

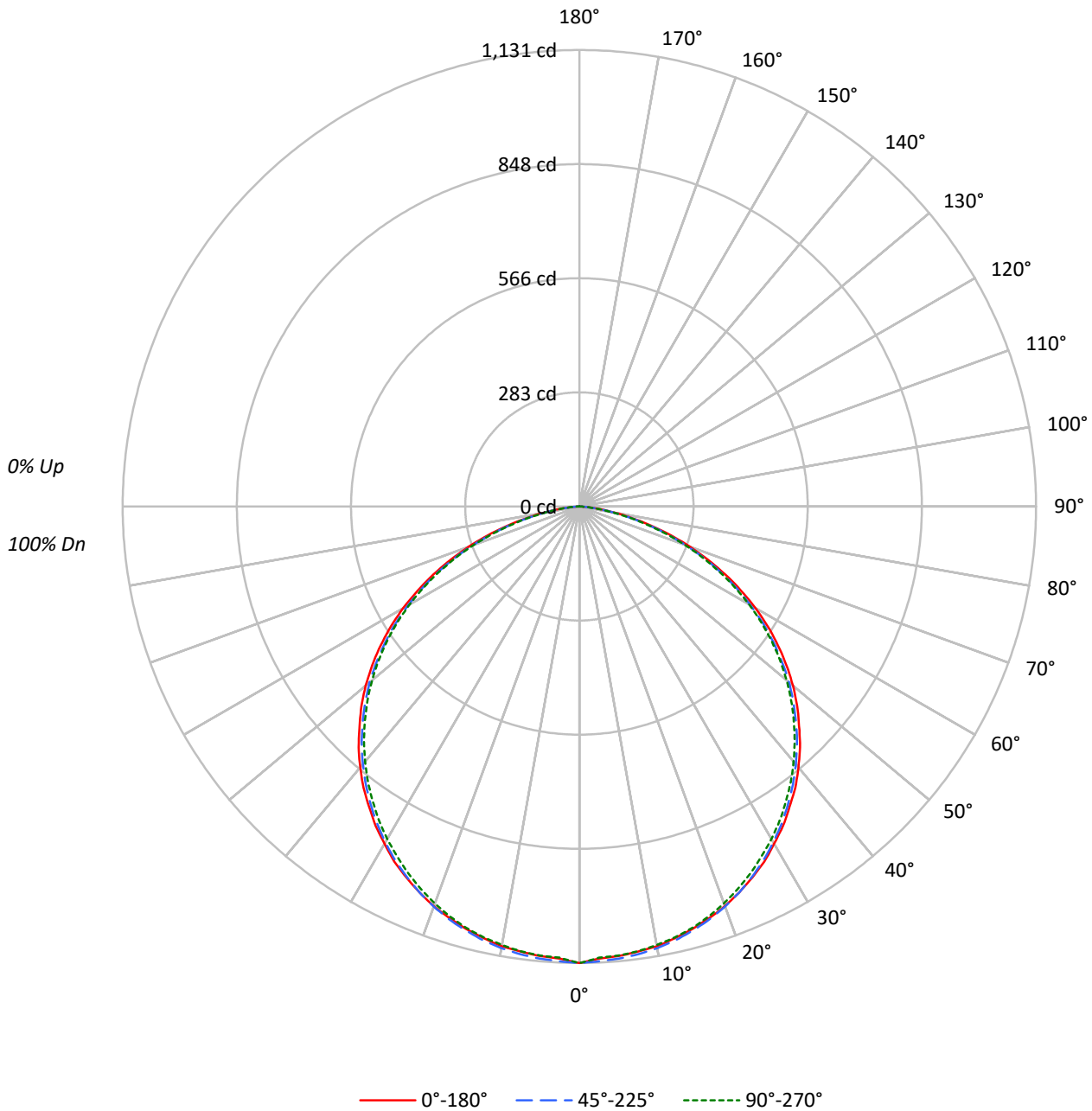
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3166.2 lumens
Efficiency: N/A
Efficacy: 99.9 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: P973439
CATALOG NUMBER: FLR2-14-42-L940-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°	3044	3044	3044
5°	3020	3038	3016
10°	3023	3036	3014
15°	3019	3030	3012
20°	3018	3021	2997
25°	3011	3006	2978
30°	2999	2985	2957
35°	2983	2960	2930
40°	2966	2929	2900
45°	2930	2888	2858
50°	2891	2838	2805
55°	2818	2753	2726
60°	2709	2633	2611
65°	2537	2463	2436
70°	2288	2196	2177
75°	1918	1821	1801
80°	1393	1299	1263
85°	738	651	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2930 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	3.4
10°-20°	307.7	9.7
20°-30°	467.5	14.8
30°-40°	565.5	17.9
40°-50°	587.7	18.6
50°-60°	526.2	16.6
60°-70°	383.8	12.1
70°-80°	189.0	6.0
80°-90°	31.6	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°	882.4	27.9
0°-40°	1447.9	45.7
0°-60°	2561.8	80.9
0°-90°	3166.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3166.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1118	1130	1125	1136	1117	106
15°	1084	1093	1088	1097	1081	306
25°	1014	1019	1012	1017	1003	468
35°	908	910	901	905	892	569
45°	770	769	759	760	751	594
55°	601	596	587	585	581	536
65°	398	394	387	384	382	394
75°	184	181	175	173	173	197
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°	1131.3	1131.3	1131.3	<i>1131.3</i>	1131.3
2.5°	<i>1121.4</i>	<i>1134.1</i>	<i>1128.0</i>	<i>1139.2</i>	<i>1119.1</i>
5°	1118.1	1130.3	1124.7	<i>1135.5</i>	1116.7
7.5°	1112.5	1125.2	1119.1	<i>1129.4</i>	1111.6
10°	1106.4	1117.7	1111.1	<i>1121.4</i>	1103.2
12.5°	1095.7	1106.9	1100.8	<i>1110.2</i>	1093.3
15°	1083.5	1093.3	1087.7	<i>1097.1</i>	1081.2
17.5°	1069.5	1078.8	1072.7	<i>1081.2</i>	1065.2
20°	1054.0	1061.5	1054.9	<i>1062.0</i>	1046.5
22.5°	1034.8	1041.8	1034.8	<i>1039.5</i>	1025.9
25°	1014.2	1019.3	1012.3	<i>1017.0</i>	1003.0
27.5°	992.2	995.0	988.0	<i>991.7</i>	977.2
30°	965.0	968.3	960.8	<i>965.5</i>	951.5
32.5°	938.8	940.7	932.3	<i>936.0</i>	923.4
35°	907.9	909.8	900.9	<i>904.6</i>	892.0
37.5°	878.4	877.9	868.6	<i>870.9</i>	860.1
40°	844.2	843.8	833.9	<i>835.8</i>	825.5
42.5°	809.1	807.2	797.9	<i>798.8</i>	789.4
45°	769.8	768.8	759.0	<i>760.4</i>	751.1
47.5°	731.9	729.0	719.2	<i>719.7</i>	711.7
50°	690.6	686.4	678.0	<i>677.1</i>	670.0
52.5°	646.6	642.0	632.6	<i>631.7</i>	626.5
55°	600.7	595.6	586.7	<i>585.3</i>	581.1
57.5°	553.5	546.9	539.9	<i>537.1</i>	533.8
60°	503.4	497.3	489.3	<i>486.5</i>	485.1
62.5°	451.4	445.3	439.2	<i>436.4</i>	434.5
65°	398.5	393.8	386.8	<i>384.0</i>	382.5
67.5°	344.6	340.4	333.9	<i>330.6</i>	330.1
70°	290.8	286.6	279.1	<i>277.2</i>	276.7
72.5°	236.9	233.2	226.2	<i>224.3</i>	224.3
75°	184.5	181.2	175.1	<i>173.2</i>	173.2
77.5°	134.9	132.0	127.4	<i>125.0</i>	125.0
80°	89.9	88.0	83.8	<i>81.9</i>	81.5
82.5°	52.0	51.0	47.3	<i>45.4</i>	46.4
85°	23.9	22.9	21.1	<i>18.7</i>	19.2
87.5°	6.1	5.6	4.2	<i>3.3</i>	4.2
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)