

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: P973301

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973301
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: FLR2-14-42HE-L950-CP125
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 5000CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

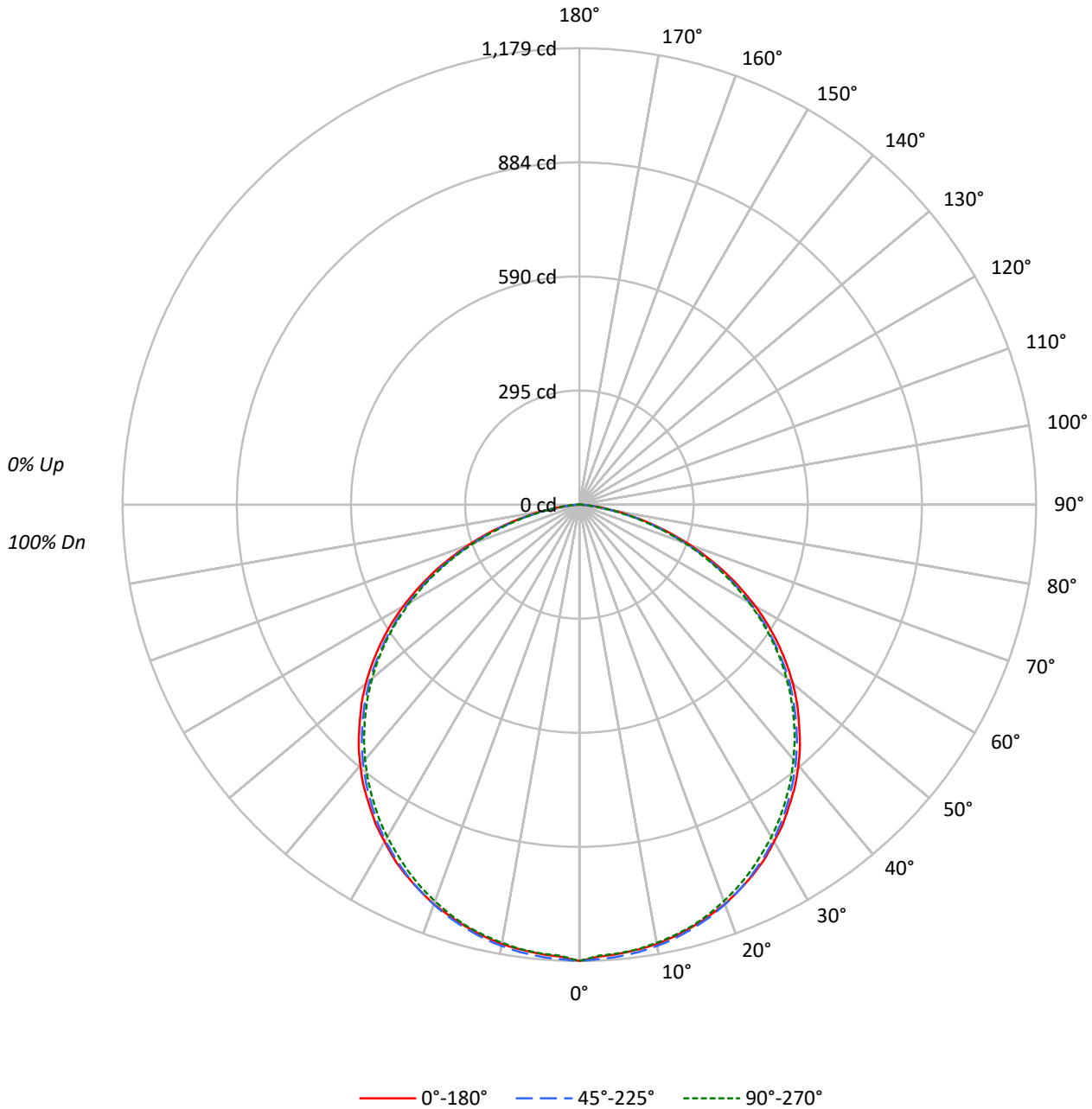
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3299.5 lumens
Efficiency: N/A
Efficacy: 103.4 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): 31.9
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: P973301
CATALOG NUMBER: FLR2-14-42HE-L950-CP125

Luminous Intensity Polar Plot





TEST NUMBER: P973301
 CATALOG NUMBER: FLR2-14-42HE-L950-CP125

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	3172	3172	3172
5°	3148	3166	3143
10°	3151	3164	3141
15°	3146	3158	3139
20°	3145	3148	3123
25°	3138	3132	3103
30°	3125	3111	3081
35°	3108	3084	3053
40°	3091	3053	3022
45°	3053	3010	2979
50°	3013	2958	2923
55°	2937	2868	2841
60°	2823	2744	2721
65°	2644	2566	2538
70°	2384	2288	2269
75°	1998	1897	1877
80°	1452	1353	1316
85°	769	679	618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3053 cd/sqm



TEST NUMBER: P973301
 CATALOG NUMBER: FLR2-14-42HE-L950-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	3.4
10°-20°	320.7	9.7
20°-30°	487.2	14.8
30°-40°	589.3	17.9
40°-50°	612.5	18.6
50°-60°	548.4	16.6
60°-70°	400.0	12.1
70°-80°	196.9	6.0
80°-90°	32.9	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°	919.5	27.9
0°-40°	1508.8	45.7
0°-60°	2669.6	80.9
0°-90°	3299.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3299.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1165	1178	1172	1183	1164	111
15°	1129	1139	1134	1143	1127	319
25°	1057	1062	1055	1060	1045	487
35°	946	948	939	943	930	593
45°	802	801	791	792	783	619
55°	626	621	611	610	606	559
65°	415	410	403	400	399	410
75°	192	189	182	180	180	205
85°	25	24	22	20	20	36
90°	0	0	0	0	0	



TEST NUMBER: P973301
 CATALOG NUMBER: FLR2-14-42HE-L950-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1178.9	1178.9	1178.9	1178.9	1178.9
2.5°	1168.6	1181.8	1175.4	1187.2	1166.2
5°	1165.2	1177.9	1172.0	1183.3	1163.7
7.5°	1159.3	1172.5	1166.2	1176.9	1158.4
10°	1153.0	1164.7	1157.9	1168.6	1149.6
12.5°	1141.8	1153.5	1147.1	1156.9	1139.3
15°	1129.1	1139.3	1133.5	1143.2	1126.7
17.5°	1114.5	1124.2	1117.9	1126.7	1110.1
20°	1098.4	1106.2	1099.3	1106.6	1090.5
22.5°	1078.3	1085.7	1078.3	1083.2	1069.1
25°	1056.9	1062.2	1054.9	1059.8	1045.2
27.5°	1033.9	1036.9	1029.6	1033.5	1018.3
30°	1005.6	1009.1	1001.3	1006.1	991.5
32.5°	978.3	980.3	971.5	975.4	962.2
35°	946.1	948.1	938.8	942.7	929.5
37.5°	915.4	914.9	905.1	907.6	896.3
40°	879.8	879.3	869.0	871.0	860.2
42.5°	843.2	841.2	831.5	832.4	822.7
45°	802.2	801.2	791.0	792.4	782.7
47.5°	762.7	759.7	749.5	750.0	741.7
50°	719.7	715.3	706.5	705.6	698.2
52.5°	673.8	669.0	659.2	658.2	652.9
55°	626.0	620.7	611.4	609.9	605.5
57.5°	576.7	569.9	562.6	559.7	556.3
60°	524.5	518.2	509.9	507.0	505.5
62.5°	470.4	464.0	457.7	454.8	452.8
65°	415.2	410.4	403.0	400.1	398.6
67.5°	359.1	354.7	347.9	344.5	344.0
70°	303.0	298.6	290.8	288.9	288.4
72.5°	246.9	243.0	235.7	233.7	233.7
75°	192.2	188.8	182.5	180.5	180.5
77.5°	140.5	137.6	132.7	130.3	130.3
80°	93.7	91.7	87.3	85.4	84.9
82.5°	54.2	53.2	49.3	47.3	48.3
85°	24.9	23.9	22.0	19.5	20.0
87.5°	6.3	5.9	4.4	3.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)