

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: P973321

Luminaire Tested: FLR2-14-42HE-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973321
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-CA080
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 5000CCT & 80 CRI with Clear Arylic (0.080" thickness)

Light Source:
Ballast/Driver: -

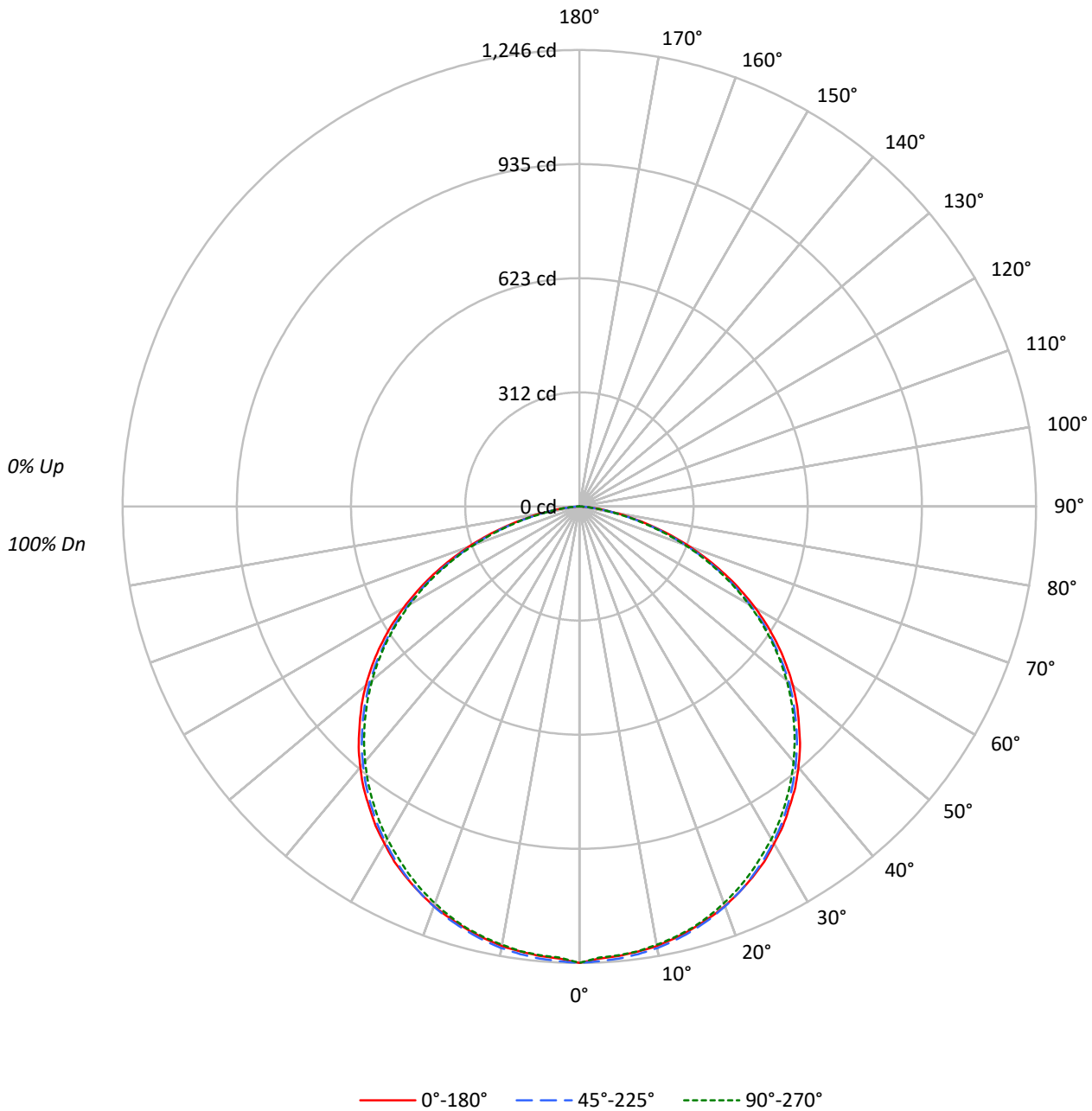
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3487.5 lumens
Efficiency: N/A
Efficacy: 109.3 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: P973321
CATALOG NUMBER: FLR2-14-42HE-L950-CA080

Luminous Intensity Polar Plot





TEST NUMBER: P973321
 CATALOG NUMBER: FLR2-14-42HE-L950-CA080

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°	3353	3353	3353
5°	3327	3346	3323
10°	3330	3344	3320
15°	3325	3338	3318
20°	3324	3328	3301
25°	3317	3311	3280
30°	3303	3288	3256
35°	3285	3260	3228
40°	3267	3227	3194
45°	3227	3181	3148
50°	3185	3126	3090
55°	3104	3032	3003
60°	2984	2901	2876
65°	2795	2713	2683
70°	2520	2419	2398
75°	2113	2006	1984
80°	1534	1430	1390
85°	812	716	651

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3227 cd/sqm



TEST NUMBER: P973321
 CATALOG NUMBER: FLR2-14-42HE-L950-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	3.4
10°-20°	338.9	9.7
20°-30°	514.9	14.8
30°-40°	622.9	17.9
40°-50°	647.4	18.6
50°-60°	579.6	16.6
60°-70°	422.7	12.1
70°-80°	208.2	6.0
80°-90°	34.8	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°	971.9	27.9
0°-40°	1594.8	45.7
0°-60°	2821.8	80.9
0°-90°	3487.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3487.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1232	1245	1239	1251	1230	117
15°	1193	1204	1198	1208	1191	337
25°	1117	1123	1115	1120	1105	515
35°	1000	1002	992	996	982	626
45°	848	847	836	838	827	655
55°	662	656	646	645	640	591
65°	439	434	426	423	421	434
75°	203	200	193	191	191	217
85°	26	25	23	21	21	38
90°	0	0	0	0	0	



TEST NUMBER: P973321
 CATALOG NUMBER: FLR2-14-42HE-L950-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.0	1246.0	1246.0	1246.0	1246.0
2.5°	1235.2	1249.1	1242.4	1254.8	1232.6
5°	1231.6	1245.0	1238.8	1250.7	1230.0
7.5°	1225.4	1239.3	1232.6	1244.0	1224.4
10°	1218.7	1231.1	1223.9	1235.2	1215.1
12.5°	1206.8	1219.2	1212.5	1222.8	1204.3
15°	1193.4	1204.3	1198.1	1208.4	1190.9
17.5°	1178.0	1188.3	1181.6	1190.9	1173.3
20°	1160.9	1169.2	1162.0	1169.7	1152.7
22.5°	1139.8	1147.5	1139.8	1145.0	1130.0
25°	1117.1	1122.8	1115.0	1120.2	1104.7
27.5°	1092.9	1096.0	1088.2	1092.3	1076.4
30°	1062.9	1066.6	1058.3	1063.5	1048.0
32.5°	1034.1	1036.1	1026.8	1031.0	1017.0
35°	1000.0	1002.1	992.3	996.4	982.5
37.5°	967.5	967.0	956.7	959.3	947.4
40°	929.9	929.4	918.5	920.6	909.3
42.5°	891.2	889.1	878.8	879.9	869.5
45°	847.9	846.9	836.0	837.6	827.3
47.5°	806.1	803.0	792.2	792.7	783.9
50°	760.7	756.1	746.8	745.8	738.0
52.5°	712.2	707.1	696.8	695.7	690.1
55°	661.7	656.0	646.2	644.7	640.0
57.5°	609.6	602.4	594.7	591.6	587.9
60°	554.4	547.7	539.0	535.9	534.3
62.5°	497.2	490.5	483.8	480.7	478.6
65°	438.9	433.7	426.0	422.9	421.4
67.5°	379.6	374.9	367.7	364.1	363.6
70°	320.3	315.6	307.4	305.3	304.8
72.5°	261.0	256.8	249.1	247.0	247.0
75°	203.2	199.6	192.9	190.8	190.8
77.5°	148.5	145.4	140.3	137.7	137.7
80°	99.0	97.0	92.3	90.3	89.7
82.5°	57.2	56.2	52.1	50.0	51.1
85°	26.3	25.3	23.2	20.6	21.1
87.5°	6.7	6.2	4.6	3.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)