

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: P973254

Luminaire Tested: FLR2-14-20HE-L940-CA125

Issue Date: 3/13/2025

**Test Information**

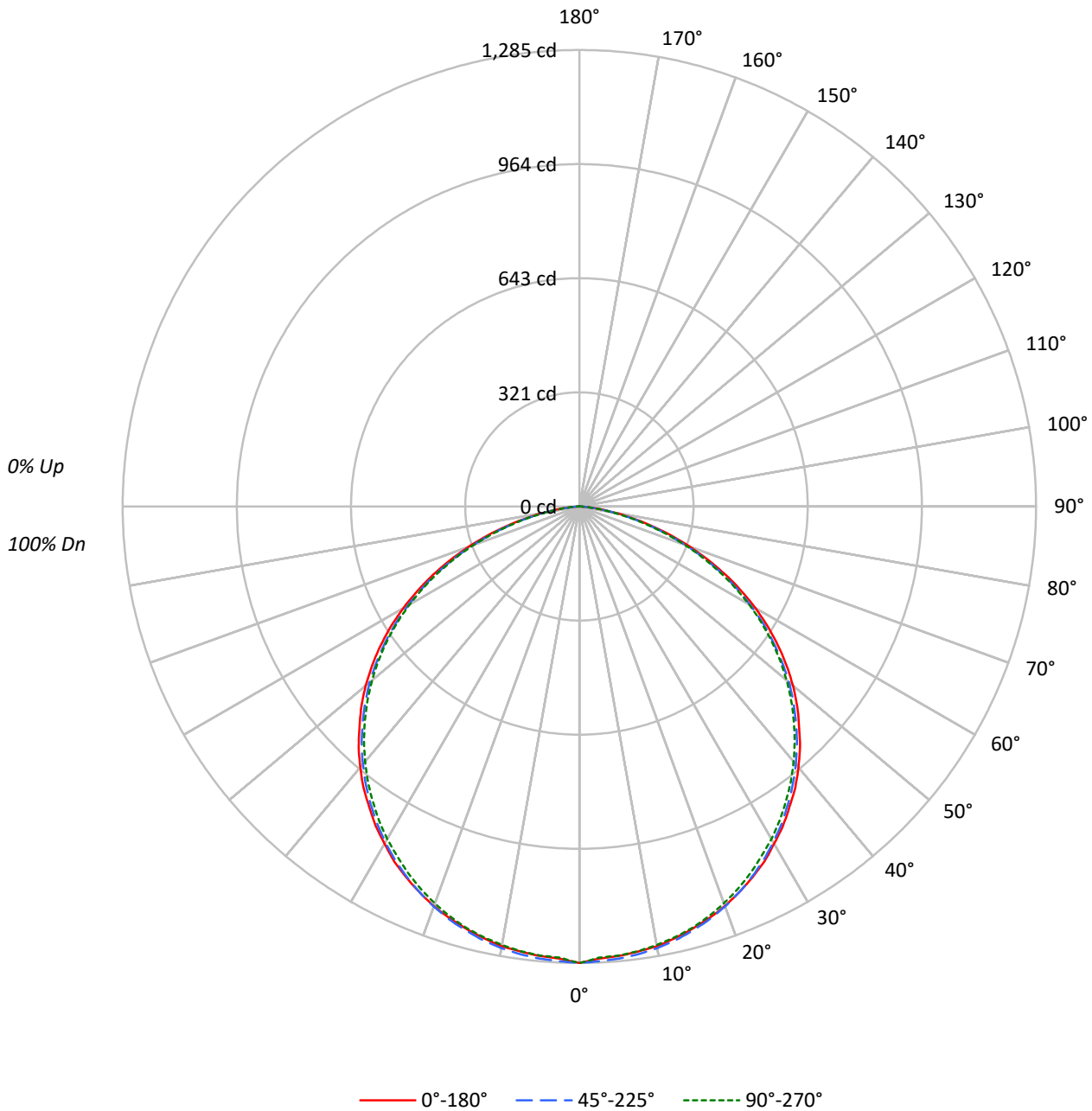
Test Method: LM-79-2019  
Report Number: P973254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-20HE-L940-CA125  
Description: 1\*4 FLR-2.0 2000 Lumen High Efficacy at 4000CCT & 90 CRI with Clear Arylic (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3597.0 lumens  
Efficiency: N/A  
Efficacy: 243.0 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): 14.8  
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

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### Luminous Intensity Polar Plot





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**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°	3458	3458	3458
5°	3431	3451	3427
10°	3435	3449	3424
15°	3429	3443	3422
20°	3429	3432	3405
25°	3421	3415	3383
30°	3407	3392	3359
35°	3388	3362	3329
40°	3369	3328	3294
45°	3328	3282	3247
50°	3285	3224	3187
55°	3202	3127	3097
60°	3077	2992	2966
65°	2883	2798	2767
70°	2599	2494	2474
75°	2179	2068	2046
80°	1582	1475	1435
85°	837	738	673

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3328 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.7	3.4
10°-20°	349.6	9.7
20°-30°	531.1	14.8
30°-40°	642.4	17.9
40°-50°	667.7	18.6
50°-60°	597.8	16.6
60°-70°	436.0	12.1
70°-80°	214.7	6.0
80°-90°	35.9	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°	1002.4	27.9
0°-40°	1644.8	45.7
0°-60°	2910.3	80.9
0°-90°	3597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3597.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1285	1285	1285	1285	1285	
5°	1270	1284	1278	1290	1269	121
15°	1231	1242	1236	1246	1228	348
25°	1152	1158	1150	1155	1139	531
35°	1031	1034	1023	1028	1013	646
45°	874	873	862	864	853	675
55°	682	677	666	665	660	609
65°	453	447	439	436	435	447
75°	210	206	199	197	197	223
85°	27	26	24	21	22	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1285.2	1285.2	1285.2	1285.2	1285.2
2.5°	1274.0	1288.3	1281.4	1294.2	1271.3
5°	1270.3	1284.1	1277.7	1289.9	1268.7
7.5°	1263.9	1278.2	1271.3	1283.0	1262.8
10°	1257.0	1269.7	1262.3	1274.0	1253.2
12.5°	1244.7	1257.5	1250.6	1261.2	1242.1
15°	1230.9	1242.1	1235.7	1246.3	1228.2
17.5°	1214.9	1225.6	1218.7	1228.2	1210.1
20°	1197.4	1205.9	1198.4	1206.4	1188.9
22.5°	1175.6	1183.6	1175.6	1180.9	1165.5
25°	1152.2	1158.0	1150.0	1155.4	1139.4
27.5°	1127.2	1130.4	1122.4	1126.6	1110.1
30°	1096.3	1100.0	1091.5	1096.8	1080.9
32.5°	1066.5	1068.7	1059.1	1063.3	1049.0
35°	1031.4	1033.5	1023.4	1027.7	1013.3
37.5°	997.9	997.4	986.7	989.4	977.2
40°	959.1	958.5	947.4	949.5	937.8
42.5°	919.2	917.1	906.4	907.5	896.8
45°	874.5	873.4	862.3	863.9	853.2
47.5°	831.4	828.2	817.1	817.6	808.5
50°	784.6	779.8	770.2	769.2	761.2
52.5°	734.6	729.3	718.6	717.6	711.7
55°	682.5	676.6	666.5	664.9	660.1
57.5°	628.7	621.3	613.3	610.1	606.4
60°	571.8	564.9	555.9	552.7	551.1
62.5°	512.8	505.9	499.0	495.8	493.6
65°	452.7	447.4	439.4	436.2	434.6
67.5°	391.5	386.7	379.3	375.5	375.0
70°	330.3	325.5	317.0	314.9	314.4
72.5°	269.2	264.9	256.9	254.8	254.8
75°	209.6	205.9	198.9	196.8	196.8
77.5°	153.2	150.0	144.7	142.0	142.0
80°	102.1	100.0	95.2	93.1	92.6
82.5°	59.0	58.0	53.7	51.6	52.7
85°	27.1	26.1	23.9	21.3	21.8
87.5°	6.9	6.4	4.8	3.7	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)