

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: P973159

Luminaire Tested: FLR2-14-20HE-L935-CP125

Issue Date: 3/13/2025

**Test Information**

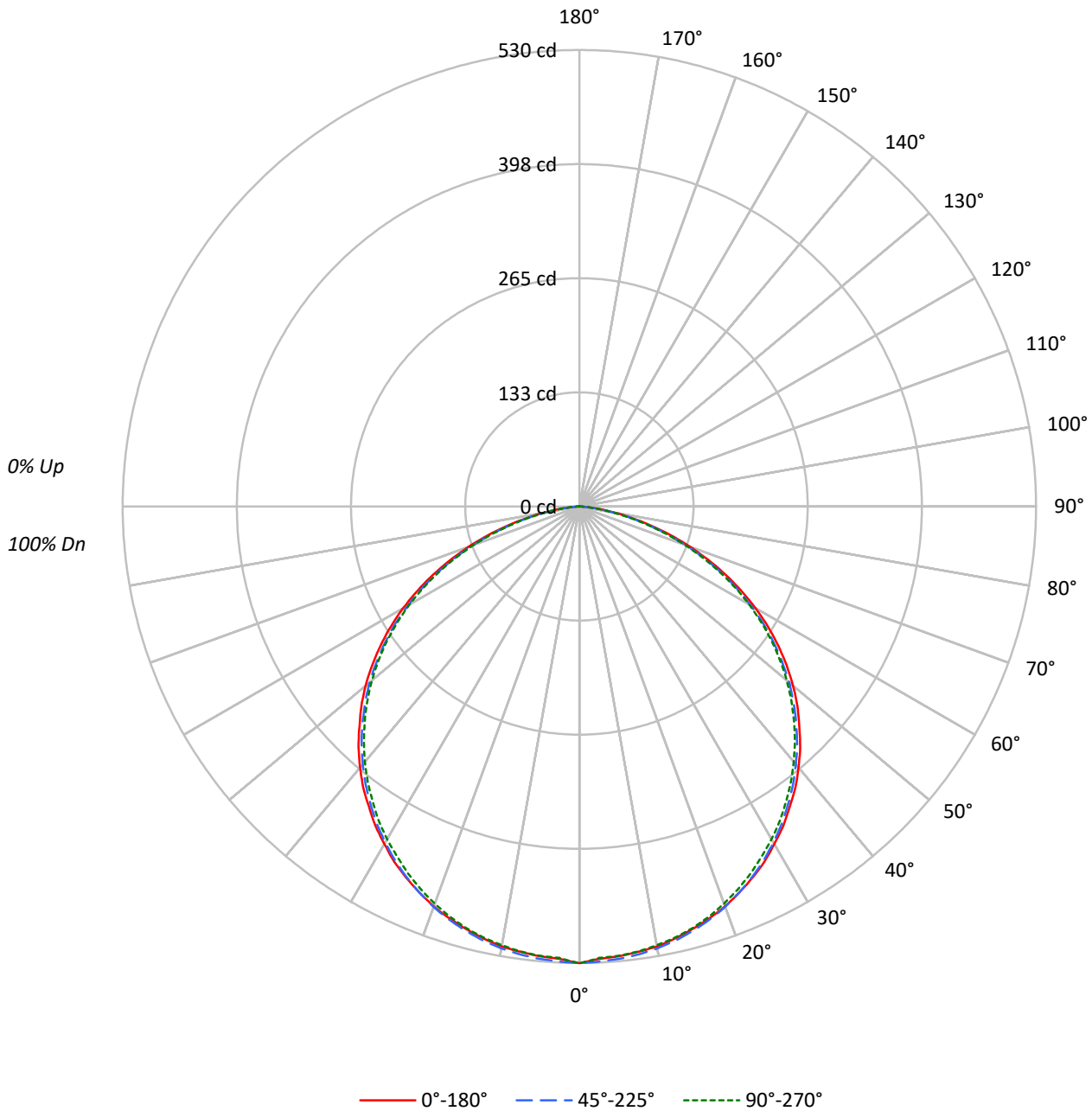
Test Method: LM-79-2019  
Report Number: P973159  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-20HE-L935-CP125  
Description: 1\*4 FLR-2.0 2000 Lumen High Efficacy at 3500CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1484.6 lumens  
Efficiency: N/A  
Efficacy: 100.3 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): 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									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°	1427	1427	1427
5°	1416	1425	1414
10°	1418	1424	1414
15°	1415	1421	1412
20°	1415	1417	1405
25°	1412	1409	1396
30°	1406	1400	1386
35°	1398	1388	1374
40°	1391	1374	1360
45°	1373	1354	1340
50°	1356	1331	1315
55°	1322	1291	1278
60°	1270	1235	1224
65°	1189	1155	1142
70°	1072	1030	1021
75°	899	854	844
80°	654	609	592
85°	346	306	278

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1373 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.2	3.4
10°-20°	144.3	9.7
20°-30°	219.2	14.8
30°-40°	265.2	17.9
40°-50°	275.6	18.6
50°-60°	246.7	16.6
60°-70°	180.0	12.1
70°-80°	88.6	6.0
80°-90°	14.8	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°	413.7	27.9
0°-40°	678.9	45.7
0°-60°	1201.2	80.9
0°-90°	1484.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1484.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	524	530	527	532	524	50
15°	508	513	510	514	507	143
25°	476	478	475	477	470	219
35°	426	427	422	424	418	267
45°	361	360	356	357	352	279
55°	282	279	275	274	272	251
65°	187	185	181	180	179	185
75°	86	85	82	81	81	92
85°	11	11	10	9	9	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	530.4	530.4	530.4	530.4	530.4
2.5°	525.8	531.8	528.9	534.2	524.7
5°	524.3	530.0	527.4	532.4	523.6
7.5°	521.7	527.6	524.7	529.6	521.2
10°	518.8	524.1	521.0	525.8	517.3
12.5°	513.8	519.0	516.2	520.6	512.7
15°	508.0	512.7	510.0	514.4	506.9
17.5°	501.5	505.9	503.0	506.9	499.5
20°	494.2	497.7	494.7	497.9	490.7
22.5°	485.2	488.5	485.2	487.4	481.0
25°	475.6	478.0	474.7	476.9	470.3
27.5°	465.2	466.6	463.3	465.0	458.2
30°	452.5	454.0	450.5	452.7	446.1
32.5°	440.2	441.1	437.1	438.9	433.0
35°	425.7	426.6	422.4	424.2	418.2
37.5°	411.9	411.7	407.3	408.4	403.3
40°	395.9	395.6	391.0	391.9	387.1
42.5°	379.4	378.5	374.1	374.6	370.2
45°	360.9	360.5	355.9	356.6	352.2
47.5°	343.2	341.8	337.2	337.5	333.7
50°	323.8	321.9	317.9	317.5	314.2
52.5°	303.2	301.0	296.6	296.2	293.8
55°	281.7	279.3	275.1	274.4	272.5
57.5°	259.5	256.4	253.1	251.8	250.3
60°	236.0	233.2	229.4	228.1	227.5
62.5°	211.6	208.8	205.9	204.6	203.7
65°	186.8	184.6	181.4	180.0	179.4
67.5°	161.6	159.6	156.5	155.0	154.8
70°	136.3	134.4	130.9	130.0	129.8
72.5°	111.1	109.3	106.0	105.2	105.2
75°	86.5	85.0	82.1	81.2	81.2
77.5°	63.2	61.9	59.7	58.6	58.6
80°	42.2	41.3	39.3	38.4	38.2
82.5°	24.4	23.9	22.2	21.3	21.7
85°	11.2	10.8	9.9	8.8	9.0
87.5°	2.9	2.6	2.0	1.5	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)