

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: P973537

Luminaire Tested: FLR2-22-20-L930-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973537  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-20-L930-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

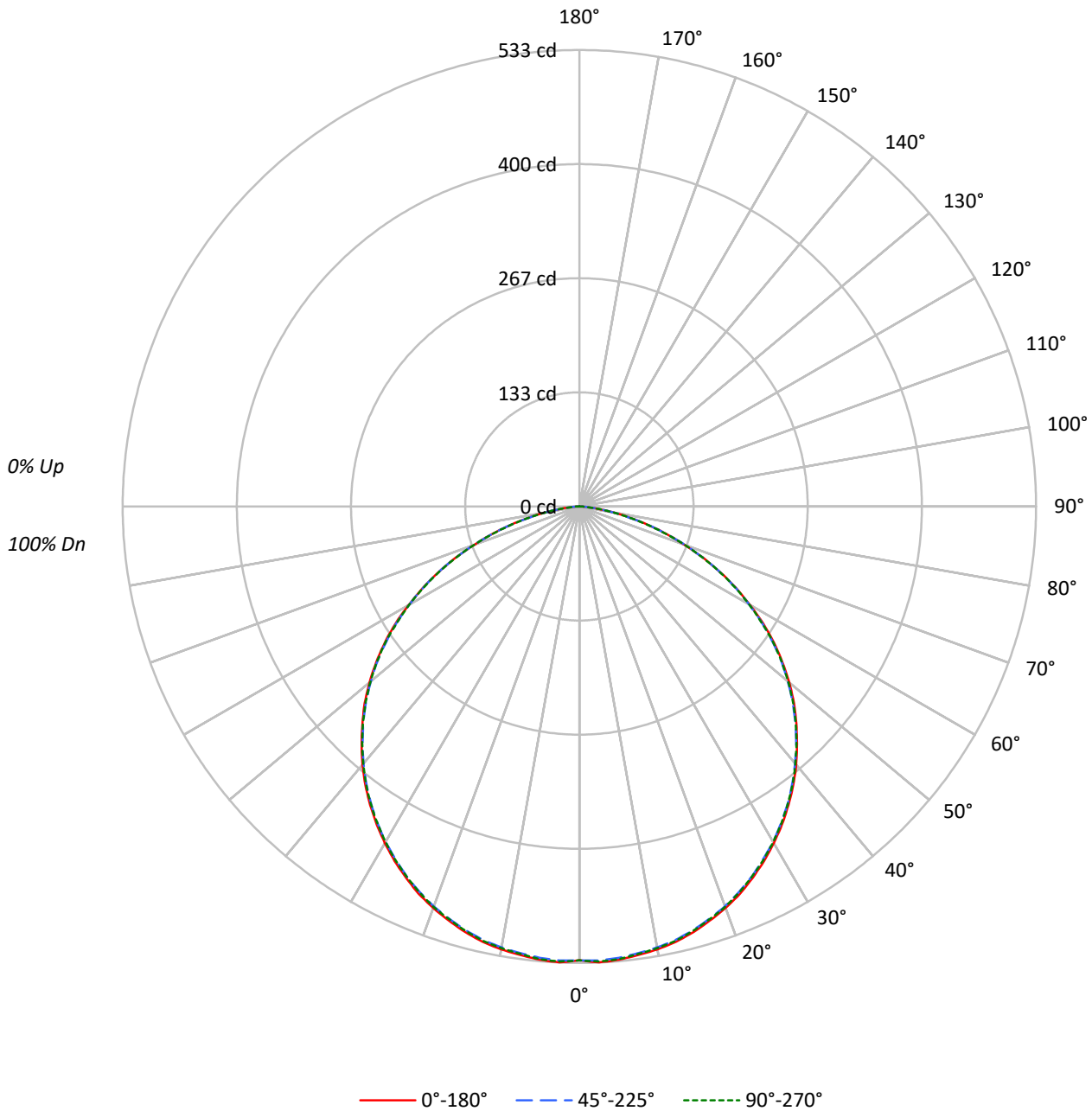
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1482.1 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.1  
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: P973537  
CATALOG NUMBER: FLR2-22-20-L930-CP250

### Luminous Intensity Polar Plot





TEST NUMBER: P973537  
 CATALOG NUMBER: FLR2-22-20-L930-CP250

**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	63	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	71	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	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	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	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1426	1426	1426
5°	1435	1429	1433
10°	1435	1429	1431
15°	1434	1427	1429
20°	1429	1423	1425
25°	1421	1415	1416
30°	1411	1405	1406
35°	1398	1393	1394
40°	1383	1376	1378
45°	1363	1357	1359
50°	1339	1329	1332
55°	1301	1290	1295
60°	1237	1231	1231
65°	1155	1152	1149
70°	1023	1028	1025
75°	861	855	847
80°	618	609	604
85°	324	324	312

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1363 cd/sqm



TEST NUMBER: P973537  
 CATALOG NUMBER: FLR2-22-20-L930-CP250

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.2	3.4
10°-20°	144.3	9.7
20°-30°	219.3	14.8
30°-40°	265.1	17.9
40°-50°	275.2	18.6
50°-60°	246.0	16.6
60°-70°	178.8	12.1
70°-80°	88.0	5.9
80°-90°	15.2	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°	413.8	27.9
0°-40°	678.9	45.8
0°-60°	1200.1	81.0
0°-90°	1482.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1482.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	531	525	529	527	531	50
15°	515	509	512	511	513	145
25°	479	473	477	476	477	221
35°	426	423	424	424	424	266
45°	358	356	356	357	357	276
55°	277	276	275	276	276	247
65°	181	182	181	181	180	179
75°	83	84	82	82	82	88
85°	10	11	10	10	10	15
90°	0	0	0	0	0	



TEST NUMBER: P973537  
 CATALOG NUMBER: FLR2-22-20-L930-CP250

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	530.0	530.0	530.0	530.0	530.0
2.5°	532.9	526.7	530.6	528.3	531.9
5°	531.3	525.1	529.0	527.0	530.6
7.5°	528.3	522.1	526.1	524.1	527.0
10°	525.1	518.5	522.8	520.8	523.8
12.5°	520.8	514.6	518.5	516.9	519.5
15°	514.6	508.7	512.3	511.0	513.0
17.5°	507.1	501.2	504.8	503.8	505.4
20°	498.9	493.3	496.9	495.9	497.6
22.5°	489.7	483.8	487.1	486.4	487.8
25°	478.6	473.4	476.6	475.6	477.0
27.5°	466.8	461.9	464.5	464.5	465.2
30°	454.0	449.5	452.1	452.1	452.4
32.5°	440.3	436.7	438.3	438.7	438.7
35°	425.6	422.6	423.9	424.2	424.2
37.5°	410.2	407.2	408.2	408.9	408.9
40°	393.8	391.2	391.8	392.5	392.2
42.5°	376.1	374.2	374.5	375.1	375.1
45°	358.1	356.5	356.5	357.1	357.1
47.5°	339.8	338.2	337.5	338.2	338.2
50°	319.8	318.2	317.5	318.2	318.2
52.5°	298.9	297.2	297.2	297.2	297.6
55°	277.3	275.6	275.0	275.6	276.0
57.5°	254.4	253.7	252.7	253.0	252.1
60°	229.8	229.8	228.8	229.5	228.8
62.5°	205.9	206.6	205.6	205.6	204.9
65°	181.4	182.0	181.0	181.0	180.4
67.5°	156.1	157.1	155.8	155.8	155.2
70°	130.0	131.9	130.6	130.9	130.3
72.5°	106.4	107.4	106.1	106.1	105.4
75°	82.8	83.5	82.2	82.5	81.5
77.5°	59.6	60.6	59.3	59.6	59.3
80°	39.9	40.3	39.3	39.6	39.0
82.5°	23.2	23.6	23.2	22.9	22.6
85°	10.5	10.8	10.5	10.5	10.1
87.5°	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)