

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: P973871

Luminaire Tested: FLR2-22-20HE-L935-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973871  
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: FLR2-22-20HE-L935-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

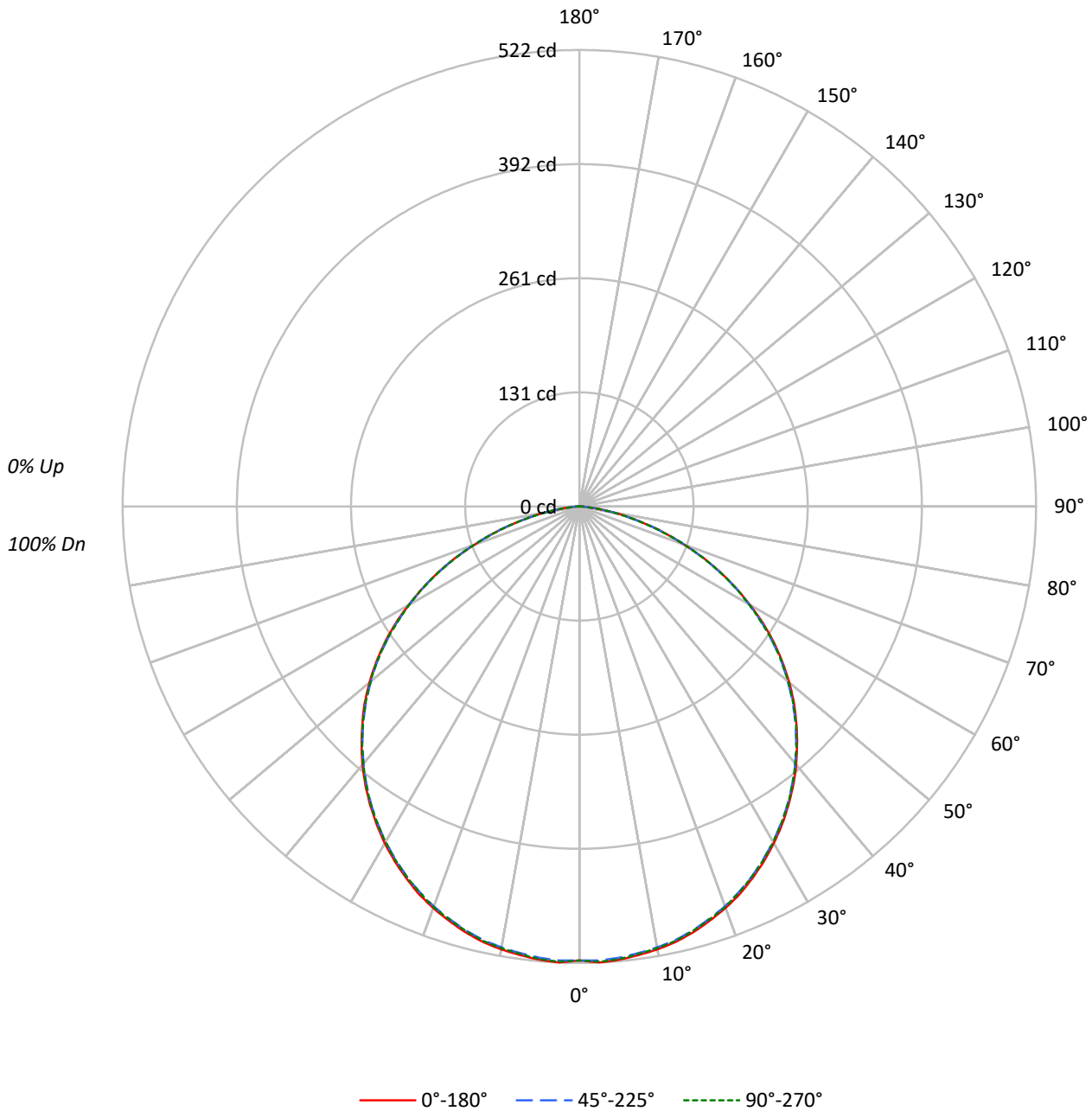
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1451.6 lumens  
Efficiency: N/A  
Efficacy: 98.1 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): 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	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°	1397	1397	1397
5°	1406	1400	1404
10°	1405	1399	1402
15°	1404	1398	1400
20°	1399	1394	1395
25°	1392	1386	1387
30°	1382	1376	1377
35°	1369	1364	1365
40°	1355	1348	1349
45°	1335	1329	1331
50°	1311	1302	1304
55°	1274	1263	1268
60°	1211	1206	1206
65°	1131	1129	1125
70°	1002	1006	1004
75°	843	837	830
80°	606	597	592
85°	318	318	306

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1335 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.2	3.4
10°-20°	141.4	9.7
20°-30°	214.8	14.8
30°-40°	259.6	17.9
40°-50°	269.5	18.6
50°-60°	240.9	16.6
60°-70°	175.2	12.1
70°-80°	86.1	5.9
80°-90°	15.0	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°	405.3	27.9
0°-40°	664.9	45.8
0°-60°	1175.4	81.0
0°-90°	1451.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1451.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	519	519	519	519	519	
5°	520	514	518	516	520	49
15°	504	498	502	500	502	142
25°	469	464	467	466	467	216
35°	417	414	415	416	416	261
45°	351	349	349	350	350	271
55°	272	270	269	270	270	242
65°	178	178	177	177	177	175
75°	81	82	80	81	80	86
85°	10	11	10	10	10	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	519.1	519.1	519.1	519.1	519.1
2.5°	522.0	515.9	519.7	517.5	521.0
5°	520.4	514.3	518.1	516.2	519.7
7.5°	517.5	511.4	515.2	513.3	516.2
10°	514.3	507.9	512.0	510.1	513.0
12.5°	510.1	504.0	507.9	506.3	508.8
15°	504.0	498.2	501.8	500.5	502.4
17.5°	496.6	490.9	494.4	493.4	495.0
20°	488.6	483.2	486.7	485.7	487.3
22.5°	479.6	473.9	477.1	476.4	477.7
25°	468.7	463.6	466.8	465.9	467.1
27.5°	457.2	452.4	455.0	455.0	455.6
30°	444.7	440.2	442.8	442.8	443.1
32.5°	431.2	427.7	429.3	429.6	429.6
35°	416.8	413.9	415.2	415.5	415.5
37.5°	401.7	398.8	399.8	400.4	400.4
40°	385.7	383.1	383.8	384.4	384.1
42.5°	368.4	366.5	366.8	367.4	367.4
45°	350.8	349.2	349.2	349.8	349.8
47.5°	332.8	331.2	330.6	331.2	331.2
50°	313.2	311.6	311.0	311.6	311.6
52.5°	292.7	291.1	291.1	291.1	291.4
55°	271.6	270.0	269.3	270.0	270.3
57.5°	249.1	248.5	247.5	247.8	246.9
60°	225.1	225.1	224.1	224.8	224.1
62.5°	201.7	202.3	201.3	201.3	200.7
65°	177.6	178.3	177.3	177.3	176.7
67.5°	152.9	153.9	152.6	152.6	152.0
70°	127.3	129.2	127.9	128.2	127.6
72.5°	104.2	105.2	103.9	103.9	103.2
75°	81.1	81.8	80.5	80.8	79.8
77.5°	58.4	59.3	58.0	58.4	58.0
80°	39.1	39.4	38.5	38.8	38.2
82.5°	22.8	23.1	22.8	22.4	22.1
85°	10.3	10.6	10.3	10.3	9.9
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)