

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: P973967

Luminaire Tested: FLR2-22-20HE-L940-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973967  
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-L940-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

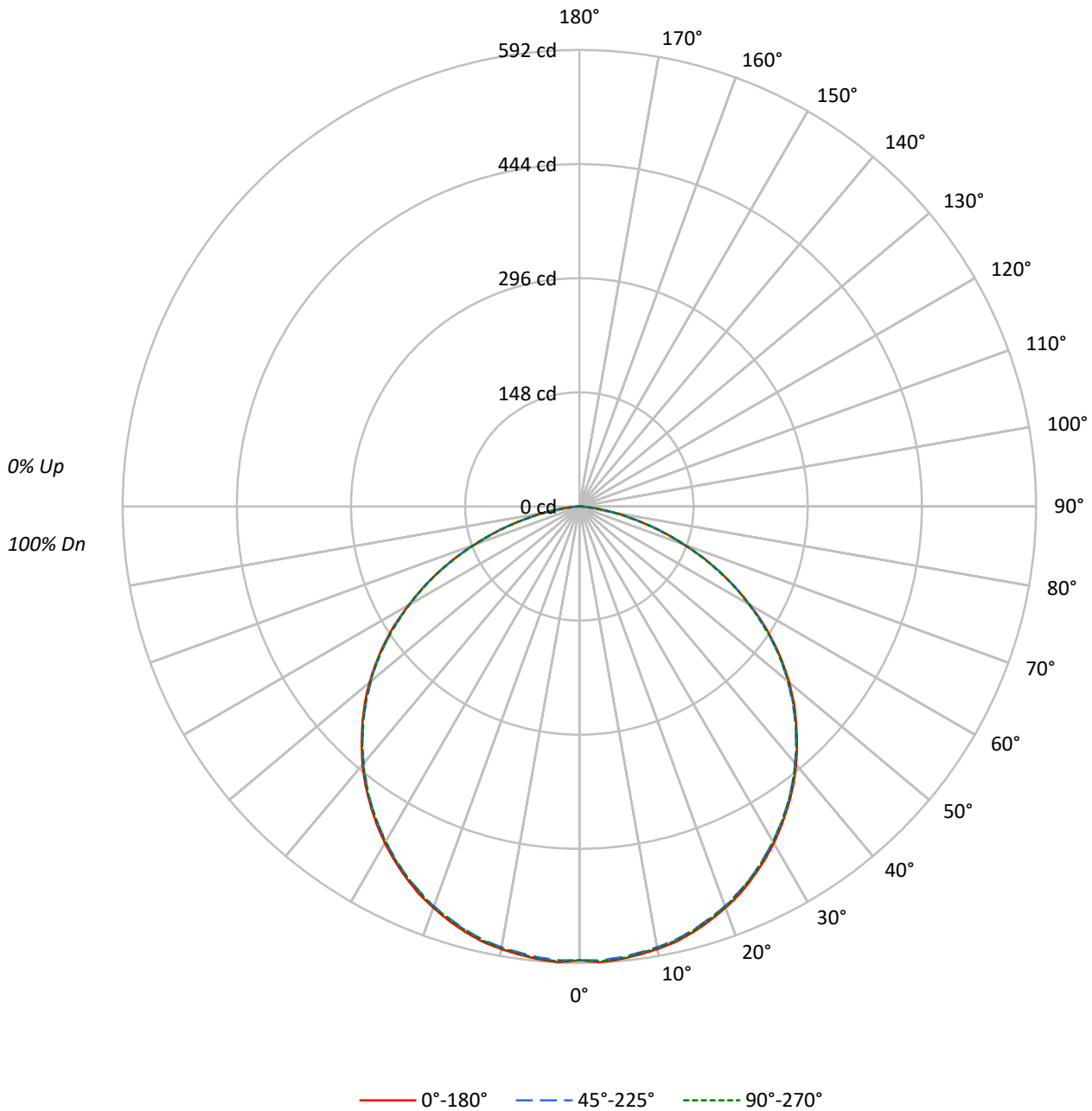
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1645.6 lumens  
Efficiency: N/A  
Efficacy: 111.2 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): 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°	1583	1583	1583
5°	1593	1586	1592
10°	1593	1586	1589
15°	1592	1585	1587
20°	1586	1580	1582
25°	1578	1571	1572
30°	1566	1560	1561
35°	1552	1546	1547
40°	1536	1528	1529
45°	1513	1506	1509
50°	1487	1476	1479
55°	1444	1432	1437
60°	1373	1368	1368
65°	1282	1280	1275
70°	1135	1141	1138
75°	957	948	941
80°	687	676	671
85°	358	358	349

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1513 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.7	3.4
10°-20°	160.2	9.7
20°-30°	243.5	14.8
30°-40°	294.3	17.9
40°-50°	305.5	18.6
50°-60°	273.1	16.6
60°-70°	198.6	12.1
70°-80°	97.7	5.9
80°-90°	16.9	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°	459.5	27.9
0°-40°	753.8	45.8
0°-60°	1332.4	81.0
0°-90°	1645.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1645.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	590	583	587	585	589	56
15°	571	565	569	567	570	161
25°	531	526	529	528	530	245
35°	472	469	471	471	471	296
45°	398	396	396	396	396	307
55°	308	306	305	306	306	274
65°	201	202	201	201	200	199
75°	92	93	91	92	90	98
85°	12	12	12	12	11	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	588.4	588.4	588.4	588.4	588.4
2.5°	591.7	584.8	589.2	586.6	590.6
5°	589.9	583.0	587.3	585.2	589.2
7.5°	586.6	579.7	584.1	581.9	585.2
10°	583.0	575.7	580.4	578.3	581.5
12.5°	578.3	571.4	575.7	573.9	576.8
15°	571.4	564.8	568.8	567.4	569.5
17.5°	563.0	556.4	560.4	559.4	561.2
20°	553.9	547.7	551.7	550.6	552.5
22.5°	543.7	537.2	540.8	540.1	541.5
25°	531.4	525.6	529.2	528.1	529.6
27.5°	518.3	512.8	515.7	515.7	516.5
30°	504.1	499.0	501.9	501.9	502.3
32.5°	488.8	484.8	486.7	487.0	487.0
35°	472.5	469.2	470.7	471.0	471.0
37.5°	455.4	452.1	453.2	454.0	454.0
40°	437.2	434.3	435.1	435.8	435.4
42.5°	417.6	415.4	415.8	416.5	416.5
45°	397.6	395.8	395.8	396.5	396.5
47.5°	377.3	375.4	374.7	375.4	375.4
50°	355.1	353.3	352.6	353.3	353.3
52.5°	331.8	330.0	330.0	330.0	330.4
55°	307.8	306.0	305.3	306.0	306.4
57.5°	282.4	281.7	280.6	281.0	279.9
60°	255.1	255.1	254.1	254.8	254.1
62.5°	228.6	229.3	228.2	228.2	227.5
65°	201.4	202.1	201.0	201.0	200.3
67.5°	173.4	174.5	173.0	173.0	172.3
70°	144.3	146.5	145.0	145.4	144.7
72.5°	118.1	119.2	117.8	117.8	117.0
75°	92.0	92.7	91.2	91.6	90.5
77.5°	66.1	67.2	65.8	66.1	65.8
80°	44.3	44.7	43.6	44.0	43.3
82.5°	25.8	26.2	25.8	25.4	25.1
85°	11.6	12.0	11.6	11.6	11.3
87.5°	2.9	2.9	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)