

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: P973937

Luminaire Tested: FLR2-22-20HE-L940-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973937  
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-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

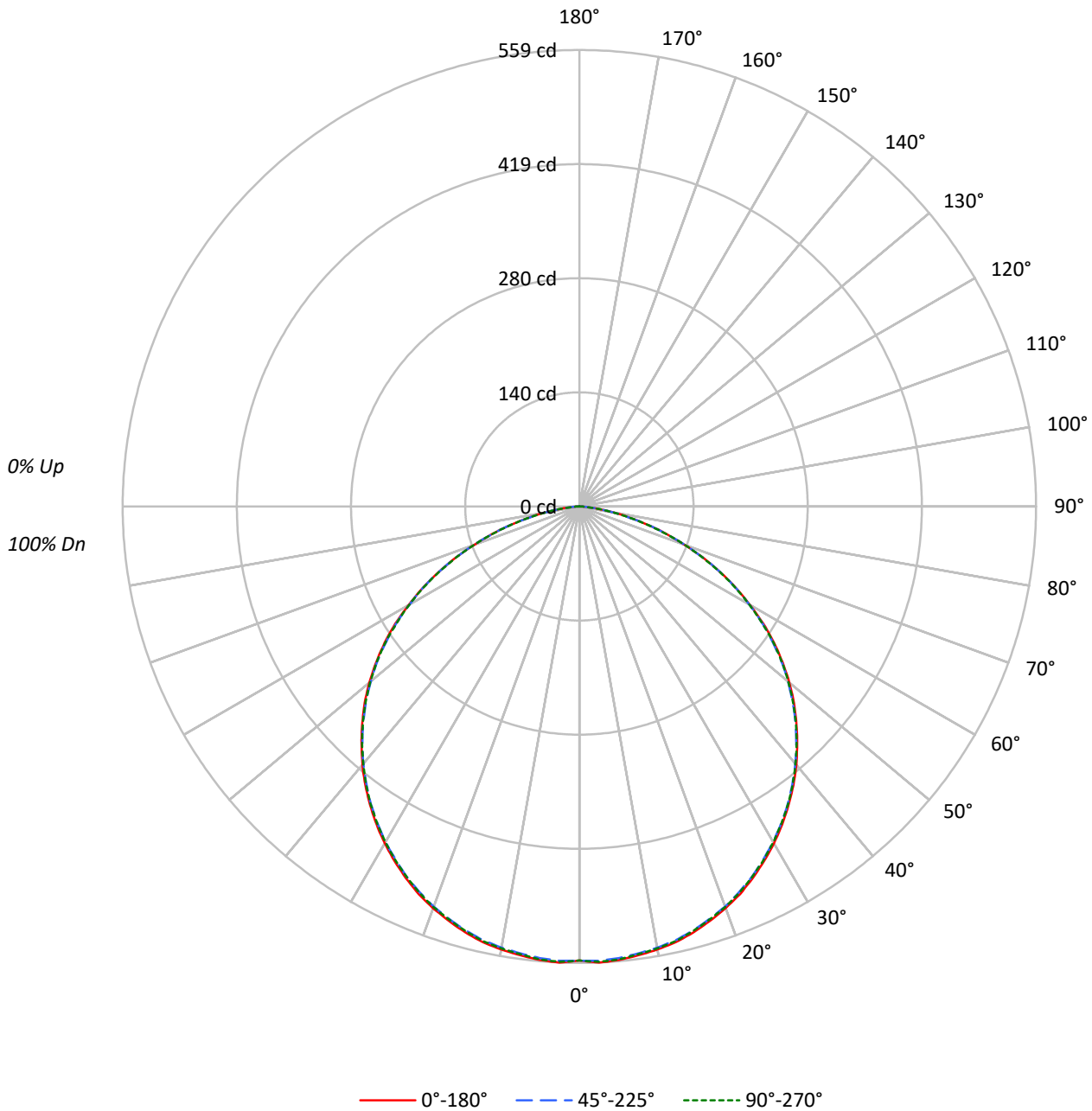
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1555.2 lumens  
Efficiency: N/A  
Efficacy: 105.1 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°	1496	1496	1496
5°	1506	1499	1504
10°	1506	1499	1502
15°	1504	1498	1500
20°	1499	1493	1495
25°	1491	1485	1486
30°	1480	1474	1475
35°	1467	1461	1463
40°	1451	1444	1446
45°	1430	1424	1426
50°	1405	1395	1398
55°	1365	1354	1359
60°	1298	1292	1292
65°	1212	1210	1205
70°	1073	1079	1076
75°	904	896	889
80°	649	638	634
85°	340	340	327

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1430 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.7	3.4
10°-20°	151.4	9.7
20°-30°	230.1	14.8
30°-40°	278.2	17.9
40°-50°	288.7	18.6
50°-60°	258.1	16.6
60°-70°	187.7	12.1
70°-80°	92.3	5.9
80°-90°	16.0	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°	434.2	27.9
0°-40°	712.4	45.8
0°-60°	1259.2	81.0
0°-90°	1555.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1555.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	558	551	555	553	557	53
15°	540	534	538	536	538	152
25°	502	497	500	499	500	231
35°	446	443	445	445	445	279
45°	376	374	374	375	375	290
55°	291	289	288	289	290	259
65°	190	191	190	190	189	188
75°	87	88	86	87	86	92
85°	11	11	11	11	11	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	556.1	556.1	556.1	556.1	556.1
2.5°	559.2	552.7	556.8	554.4	558.2
5°	557.5	551.0	555.1	553.0	556.8
7.5°	554.4	547.9	552.0	549.9	553.0
10°	551.0	544.1	548.6	546.5	549.6
12.5°	546.5	540.0	544.1	542.4	545.1
15°	540.0	533.8	537.6	536.2	538.3
17.5°	532.1	525.9	529.7	528.6	530.4
20°	523.5	517.6	521.4	520.4	522.1
22.5°	513.9	507.7	511.1	510.4	511.8
25°	502.2	496.7	500.1	499.1	500.5
27.5°	489.8	484.7	487.4	487.4	488.1
30°	476.4	471.6	474.4	474.4	474.7
32.5°	462.0	458.2	459.9	460.3	460.3
35°	446.5	443.4	444.8	445.2	445.2
37.5°	430.4	427.3	428.3	429.0	429.0
40°	413.2	410.5	411.2	411.8	411.5
42.5°	394.7	392.6	393.0	393.6	393.6
45°	375.8	374.1	374.1	374.7	374.7
47.5°	356.5	354.8	354.1	354.8	354.8
50°	335.6	333.9	333.2	333.9	333.9
52.5°	313.6	311.9	311.9	311.9	312.2
55°	290.9	289.2	288.5	289.2	289.6
57.5°	266.9	266.2	265.2	265.5	264.5
60°	241.1	241.1	240.1	240.8	240.1
62.5°	216.1	216.7	215.7	215.7	215.0
65°	190.3	191.0	190.0	190.0	189.3
67.5°	163.8	164.9	163.5	163.5	162.8
70°	136.4	138.4	137.1	137.4	136.7
72.5°	111.6	112.7	111.3	111.3	110.6
75°	86.9	87.6	86.2	86.6	85.5
77.5°	62.5	63.5	62.2	62.5	62.2
80°	41.9	42.2	41.2	41.6	40.9
82.5°	24.4	24.7	24.4	24.0	23.7
85°	11.0	11.3	11.0	11.0	10.6
87.5°	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)