

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: P973979

Luminaire Tested: FLR2-22-20HE-L850-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973979  
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-L850-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

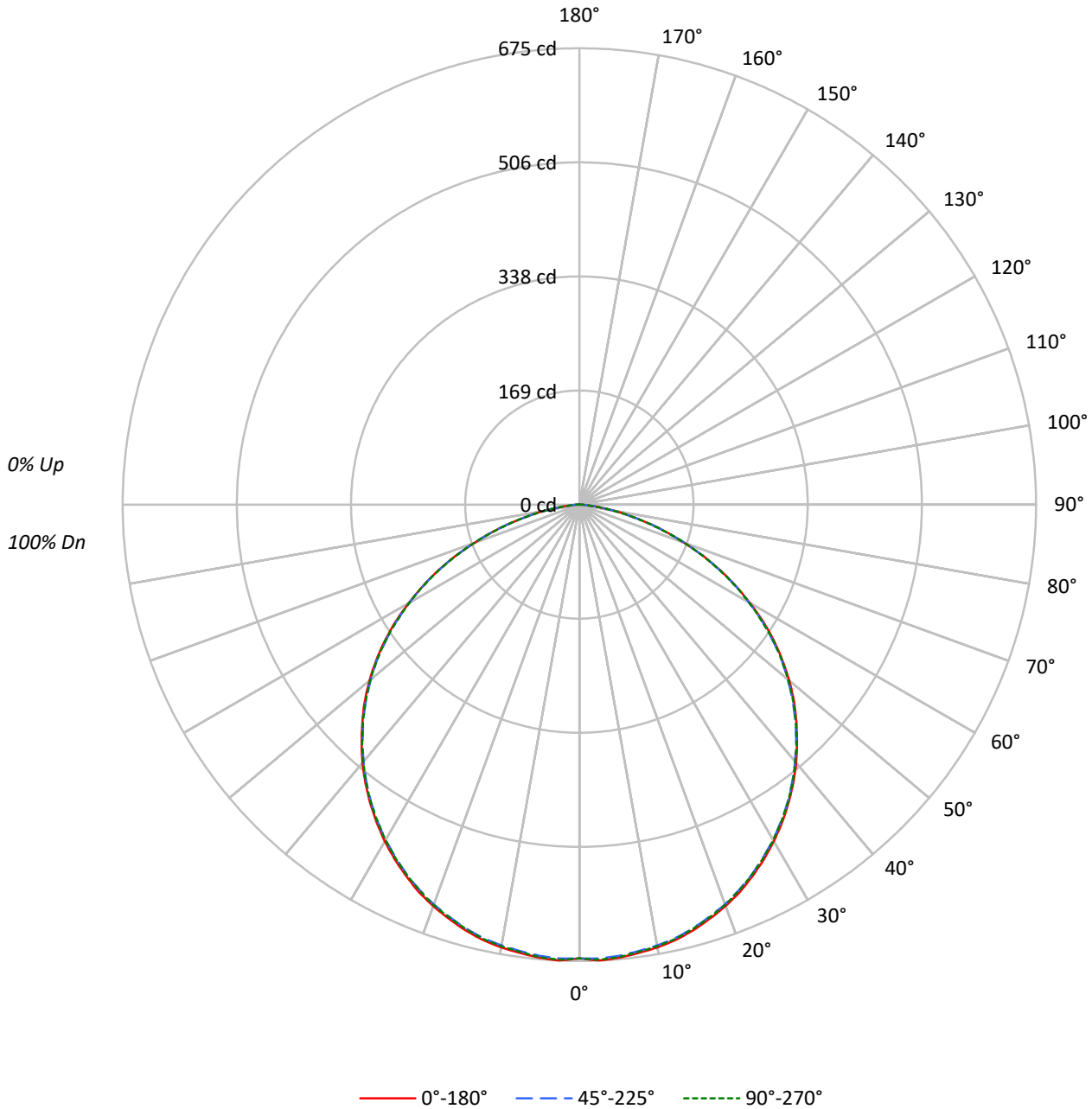
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1877.0 lumens  
Efficiency: N/A  
Efficacy: 126.8 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°	1806	1806	1806
5°	1817	1810	1815
10°	1817	1809	1812
15°	1816	1807	1810
20°	1809	1802	1804
25°	1800	1792	1793
30°	1787	1779	1780
35°	1770	1764	1765
40°	1752	1743	1744
45°	1726	1718	1721
50°	1696	1683	1687
55°	1647	1634	1640
60°	1566	1560	1560
65°	1463	1460	1454
70°	1295	1301	1298
75°	1091	1082	1073
80°	784	770	764
85°	411	411	398

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1726 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.6	3.4
10°-20°	182.8	9.7
20°-30°	277.7	14.8
30°-40°	335.7	17.9
40°-50°	348.5	18.6
50°-60°	311.5	16.6
60°-70°	226.5	12.1
70°-80°	111.4	5.9
80°-90°	19.3	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°	524.1	27.9
0°-40°	859.8	45.8
0°-60°	1519.8	81.0
0°-90°	1877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1877.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	673	665	670	667	672	64
15°	652	644	649	647	650	184
25°	606	600	604	602	604	279
35°	539	535	537	537	537	337
45°	454	452	452	452	452	350
55°	351	349	348	349	350	313
65°	230	230	229	229	228	227
75°	105	106	104	104	103	111
85°	13	14	13	13	13	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	671.2	671.2	671.2	671.2	671.2
2.5°	674.9	667.0	672.0	669.1	673.7
5°	672.8	665.0	669.9	667.4	672.0
7.5°	669.1	661.2	666.2	663.7	667.4
10°	665.0	656.7	662.0	659.6	663.3
12.5°	659.6	651.7	656.7	654.6	657.9
15°	651.7	644.2	648.8	647.1	649.6
17.5°	642.2	634.7	639.2	638.0	640.1
20°	631.8	624.7	629.3	628.1	630.1
22.5°	620.2	612.7	616.9	616.0	617.7
25°	606.1	599.5	603.6	602.4	604.0
27.5°	591.2	584.9	588.3	588.3	589.1
30°	575.0	569.2	572.5	572.5	572.9
32.5°	557.6	553.0	555.1	555.5	555.5
35°	538.9	535.2	536.9	537.3	537.3
37.5°	519.4	515.7	517.0	517.8	517.8
40°	498.7	495.4	496.2	497.1	496.6
42.5°	476.3	473.8	474.3	475.1	475.1
45°	453.5	451.5	451.5	452.3	452.3
47.5°	430.3	428.2	427.4	428.2	428.2
50°	405.0	403.0	402.1	403.0	403.0
52.5°	378.5	376.4	376.4	376.4	376.8
55°	351.1	349.1	348.2	349.1	349.5
57.5°	322.1	321.3	320.0	320.5	319.2
60°	291.0	291.0	289.8	290.6	289.8
62.5°	260.8	261.6	260.3	260.3	259.5
65°	229.7	230.5	229.3	229.3	228.4
67.5°	197.7	199.0	197.3	197.3	196.5
70°	164.6	167.1	165.4	165.8	165.0
72.5°	134.7	136.0	134.3	134.3	133.5
75°	104.9	105.7	104.1	104.5	103.2
77.5°	75.4	76.7	75.0	75.4	75.0
80°	50.6	51.0	49.7	50.2	49.3
82.5°	29.4	29.8	29.4	29.0	28.6
85°	13.3	13.7	13.3	13.3	12.9
87.5°	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)