

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: P973984

Luminaire Tested: FLR2-22-60HE-L850-CP125

Issue Date: 3/13/2025

**Test Information**

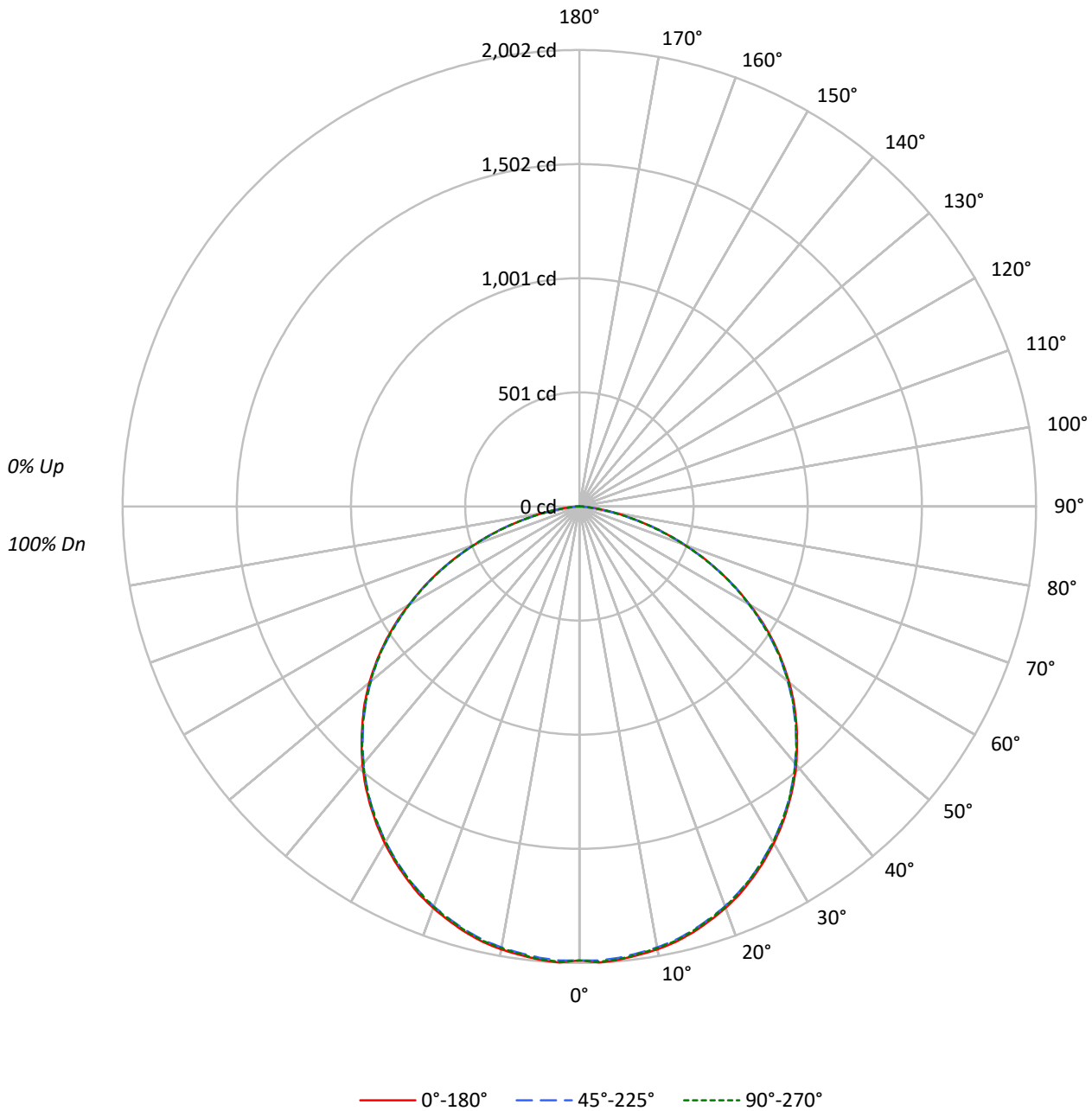
Test Method: LM-79-2019  
Report Number: P973984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-60HE-L850-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5567.3 lumens  
Efficiency: N/A  
Efficacy: 117.5 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): 47.4  
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°	5357	5357	5357
5°	5391	5368	5384
10°	5390	5366	5376
15°	5385	5361	5368
20°	5367	5345	5353
25°	5338	5316	5320
30°	5299	5276	5281
35°	5251	5231	5235
40°	5197	5171	5175
45°	5119	5096	5105
50°	5030	4994	5004
55°	4886	4846	4863
60°	4646	4626	4626
65°	4337	4330	4314
70°	3841	3860	3851
75°	3235	3209	3184
80°	2325	2287	2267
85°	1213	1213	1176

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5119 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.5	3.4
10°-20°	542.1	9.7
20°-30°	823.8	14.8
30°-40°	995.8	17.9
40°-50°	1033.6	18.6
50°-60°	924.0	16.6
60°-70°	671.8	12.1
70°-80°	330.4	5.9
80°-90°	57.3	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°	1554.5	27.9
0°-40°	2550.2	45.8
0°-60°	4507.8	81.0
0°-90°	5567.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5567.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1991	1991	1991	1991	1991	
5°	1996	1972	1987	1980	1993	190
15°	1933	1911	1924	1920	1927	545
25°	1798	1778	1790	1787	1792	829
35°	1598	1588	1592	1594	1594	1000
45°	1345	1339	1339	1342	1342	1038
55°	1042	1035	1033	1035	1037	928
65°	681	684	680	680	678	672
75°	311	314	309	310	306	330
85°	39	41	39	39	38	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1990.8	1990.8	1990.8	1990.8	1990.8
2.5°	2001.9	1978.5	1993.3	1984.7	1998.2
5°	1995.7	1972.4	1987.1	1979.7	1993.3
7.5°	1984.7	1961.3	1976.0	1968.7	1979.7
10°	1972.4	1947.8	1963.7	1956.4	1967.4
12.5°	1956.4	1933.0	1947.8	1941.6	1951.5
15°	1933.0	1910.9	1924.4	1919.5	1926.9
17.5°	1904.7	1882.6	1896.1	1892.4	1898.6
20°	1874.0	1853.1	1866.6	1862.9	1869.1
22.5°	1839.6	1817.4	1829.7	1827.3	1832.2
25°	1797.7	1778.1	1790.4	1786.7	1791.6
27.5°	1753.5	1735.0	1744.9	1744.9	1747.3
30°	1705.5	1688.3	1698.1	1698.1	1699.4
32.5°	1653.9	1640.4	1646.5	1647.7	1647.7
35°	1598.5	1587.5	1592.4	1593.6	1593.6
37.5°	1540.7	1529.7	1533.4	1535.8	1535.8
40°	1479.3	1469.4	1471.9	1474.3	1473.1
42.5°	1412.9	1405.5	1406.7	1409.2	1409.2
45°	1345.2	1339.1	1339.1	1341.5	1341.5
47.5°	1276.4	1270.2	1267.8	1270.2	1270.2
50°	1201.4	1195.2	1192.8	1195.2	1195.2
52.5°	1122.7	1116.5	1116.5	1116.5	1117.8
55°	1041.5	1035.4	1032.9	1035.4	1036.6
57.5°	955.4	953.0	949.3	950.5	946.8
60°	863.2	863.2	859.5	862.0	859.5
62.5°	773.4	775.9	772.2	772.2	769.8
65°	681.2	683.7	680.0	680.0	677.5
67.5°	586.5	590.2	585.3	585.3	582.9
70°	488.2	495.5	490.6	491.9	489.4
72.5°	399.6	403.3	398.4	398.4	395.9
75°	311.1	313.6	308.6	309.9	306.2
77.5°	223.8	227.5	222.6	223.8	222.6
80°	150.0	151.2	147.6	148.8	146.3
82.5°	87.3	88.5	87.3	86.1	84.8
85°	39.3	40.6	39.3	39.3	38.1
87.5°	9.8	9.8	9.8	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)