

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: P973983

Luminaire Tested: FLR2-22-50HE-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973983
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: FLR2-22-50HE-L850-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

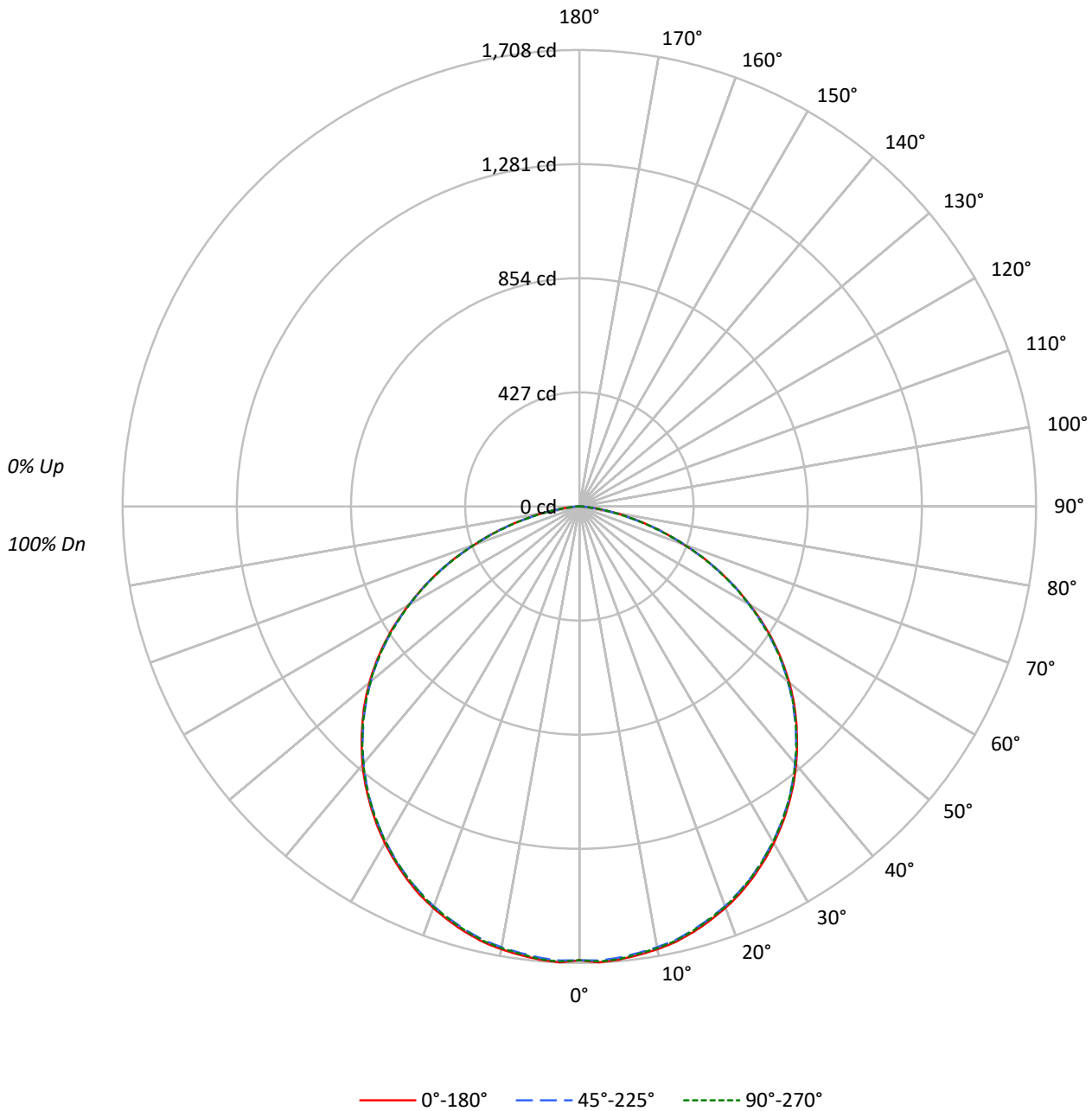
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4748.5 lumens
Efficiency: N/A
Efficacy: 118.7 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): 40
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

TEST NUMBER: P973983
CATALOG NUMBER: FLR2-22-50HE-L850-CP125

Luminous Intensity Polar Plot





TEST NUMBER: P973983
 CATALOG NUMBER: FLR2-22-50HE-L850-CP125

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°	4569	4569	4569
5°	4598	4578	4592
10°	4597	4577	4585
15°	4593	4573	4579
20°	4577	4559	4565
25°	4553	4534	4537
30°	4520	4501	4504
35°	4479	4462	4465
40°	4432	4410	4414
45°	4367	4346	4354
50°	4290	4259	4268
55°	4168	4133	4148
60°	3963	3946	3946
65°	3699	3693	3680
70°	3276	3293	3284
75°	2758	2737	2716
80°	1984	1951	1934
85°	1037	1037	1003

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4367 cd/sqm



TEST NUMBER: P973983
 CATALOG NUMBER: FLR2-22-50HE-L850-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	3.4
10°-20°	462.4	9.7
20°-30°	702.7	14.8
30°-40°	849.3	17.9
40°-50°	881.5	18.6
50°-60°	788.1	16.6
60°-70°	573.0	12.1
70°-80°	281.8	5.9
80°-90°	48.9	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°	1325.9	27.9
0°-40°	2175.2	45.8
0°-60°	3844.8	81.0
0°-90°	4748.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4748.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1698	1698	1698	1698	1698	
5°	1702	1682	1695	1689	1700	162
15°	1649	1630	1641	1637	1644	465
25°	1533	1517	1527	1524	1528	707
35°	1363	1354	1358	1359	1359	853
45°	1147	1142	1142	1144	1144	885
55°	888	883	881	883	884	792
65°	581	583	580	580	578	573
75°	265	267	263	264	261	282
85°	34	35	34	34	32	49
90°	0	0	0	0	0	



TEST NUMBER: P973983
 CATALOG NUMBER: FLR2-22-50HE-L850-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1698.0	1698.0	1698.0	1698.0	1698.0
2.5°	1707.5	1687.5	1700.1	1692.8	1704.3
5°	1702.2	1682.3	1694.9	1688.6	1700.1
7.5°	1692.8	1672.8	1685.4	1679.1	1688.6
10°	1682.3	1661.3	1674.9	1668.6	1678.1
12.5°	1668.6	1648.7	1661.3	1656.1	1664.5
15°	1648.7	1629.8	1641.4	1637.2	1643.5
17.5°	1624.6	1605.7	1617.3	1614.1	1619.4
20°	1598.4	1580.5	1592.1	1588.9	1594.2
22.5°	1569.0	1550.1	1560.6	1558.5	1562.7
25°	1533.4	1516.6	1527.1	1523.9	1528.1
27.5°	1495.6	1479.9	1488.3	1488.3	1490.4
30°	1454.7	1440.0	1448.4	1448.4	1449.4
32.5°	1410.6	1399.1	1404.3	1405.4	1405.4
35°	1363.4	1354.0	1358.2	1359.3	1359.3
37.5°	1314.2	1304.7	1307.9	1310.0	1310.0
40°	1261.7	1253.3	1255.4	1257.5	1256.5
42.5°	1205.1	1198.8	1199.8	1201.9	1201.9
45°	1147.4	1142.1	1142.1	1144.2	1144.2
47.5°	1088.7	1083.4	1081.3	1083.4	1083.4
50°	1024.7	1019.4	1017.3	1019.4	1019.4
52.5°	957.6	952.3	952.3	952.3	953.4
55°	888.3	883.1	881.0	883.1	884.1
57.5°	814.9	812.8	809.7	810.7	807.6
60°	736.3	736.3	733.1	735.2	733.1
62.5°	659.7	661.8	658.6	658.6	656.6
65°	581.0	583.1	580.0	580.0	577.9
67.5°	500.3	503.4	499.2	499.2	497.1
70°	416.4	422.7	418.5	419.5	417.4
72.5°	340.9	344.0	339.8	339.8	337.7
75°	265.3	267.4	263.2	264.3	261.2
77.5°	190.9	194.0	189.8	190.9	189.8
80°	128.0	129.0	125.9	126.9	124.8
82.5°	74.5	75.5	74.5	73.4	72.4
85°	33.6	34.6	33.6	33.6	32.5
87.5°	8.4	8.4	8.4	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)