

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: P974013

Luminaire Tested: FLR2-22-50HE-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974013
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

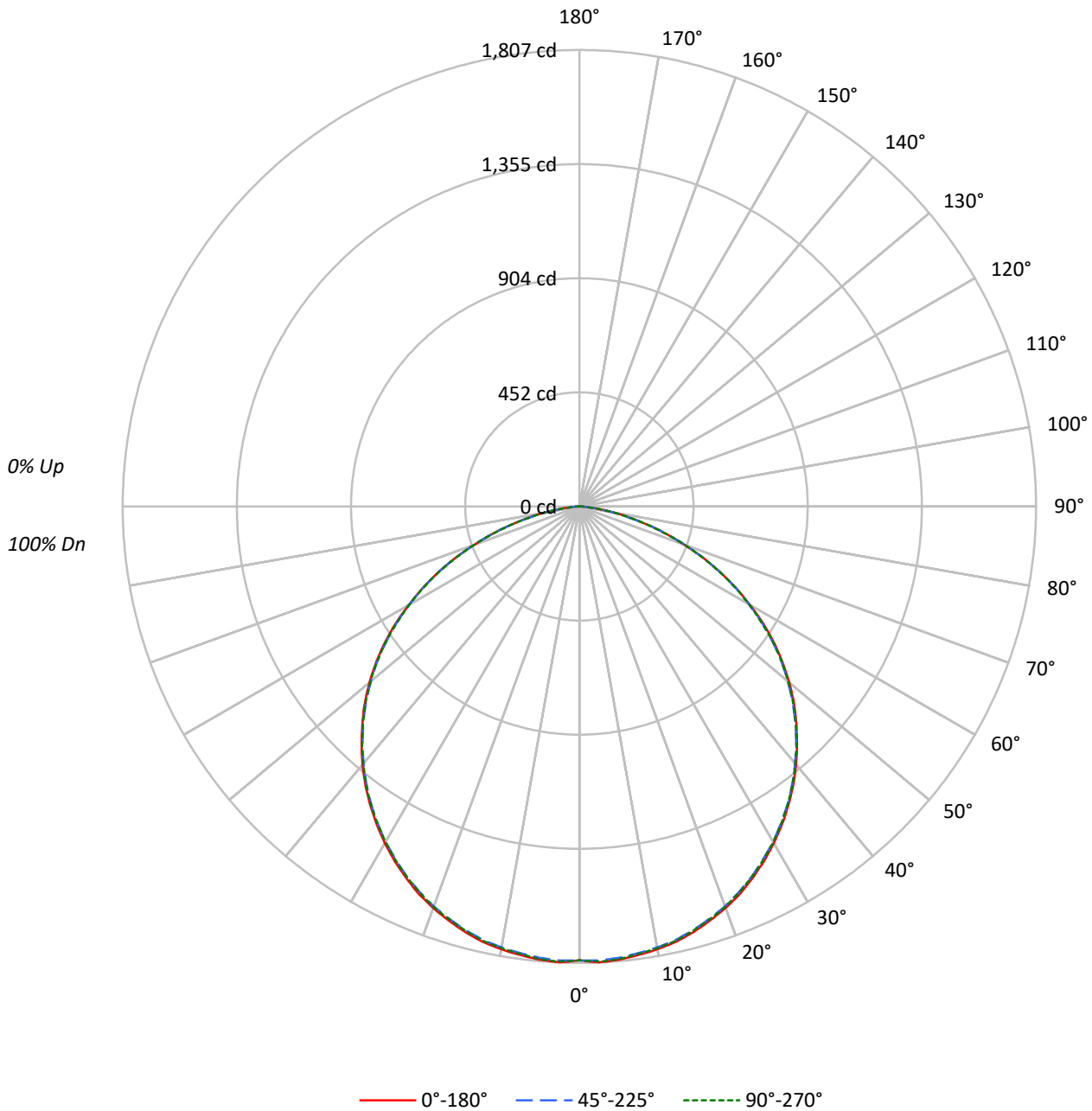
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5024.6 lumens
Efficiency: N/A
Efficacy: 125.6 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

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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°	4835	4835	4835
5°	4865	4844	4859
10°	4864	4843	4852
15°	4860	4839	4845
20°	4843	4824	4830
25°	4817	4798	4801
30°	4783	4762	4766
35°	4739	4721	4725
40°	4690	4666	4670
45°	4620	4599	4607
50°	4539	4507	4516
55°	4410	4373	4389
60°	4193	4175	4175
65°	3915	3908	3894
70°	3467	3484	3475
75°	2920	2896	2873
80°	2098	2064	2047
85°	1096	1096	1062

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4620 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	3.4
10°-20°	489.3	9.7
20°-30°	743.5	14.8
30°-40°	898.7	17.9
40°-50°	932.8	18.6
50°-60°	833.9	16.6
60°-70°	606.3	12.1
70°-80°	298.2	5.9
80°-90°	51.7	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°	1402.9	27.9
0°-40°	2301.6	45.8
0°-60°	4068.3	81.0
0°-90°	5024.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5024.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1797	1797	1797	1797	1797	
5°	1801	1780	1793	1787	1799	171
15°	1744	1725	1737	1732	1739	492
25°	1622	1605	1616	1612	1617	748
35°	1443	1433	1437	1438	1438	903
45°	1214	1208	1208	1211	1211	937
55°	940	934	932	934	936	838
65°	615	617	614	614	612	606
75°	281	283	278	280	276	298
85°	36	37	36	36	34	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1796.7	1796.7	1796.7	1796.7	1796.7
2.5°	1806.7	1785.6	1798.9	1791.2	1803.4
5°	1801.1	1780.1	1793.4	1786.7	1798.9
7.5°	1791.2	1770.1	1783.4	1776.7	1786.7
10°	1780.1	1757.9	1772.3	1765.6	1775.6
12.5°	1765.6	1744.5	1757.9	1752.3	1761.2
15°	1744.5	1724.6	1736.8	1732.3	1739.0
17.5°	1719.0	1699.0	1711.3	1707.9	1713.5
20°	1691.3	1672.4	1684.6	1681.3	1686.8
22.5°	1660.2	1640.2	1651.3	1649.1	1653.5
25°	1622.5	1604.7	1615.8	1612.5	1616.9
27.5°	1582.5	1565.9	1574.8	1574.8	1577.0
30°	1539.2	1523.7	1532.6	1532.6	1533.7
32.5°	1492.6	1480.4	1486.0	1487.1	1487.1
35°	1442.7	1432.7	1437.1	1438.3	1438.3
37.5°	1390.5	1380.5	1383.9	1386.1	1386.1
40°	1335.0	1326.2	1328.4	1330.6	1329.5
42.5°	1275.1	1268.5	1269.6	1271.8	1271.8
45°	1214.1	1208.5	1208.5	1210.7	1210.7
47.5°	1151.9	1146.4	1144.2	1146.4	1146.4
50°	1084.2	1078.7	1076.5	1078.7	1078.7
52.5°	1013.2	1007.7	1007.7	1007.7	1008.8
55°	940.0	934.4	932.2	934.4	935.5
57.5°	862.3	860.1	856.7	857.8	854.5
60°	779.1	779.1	775.7	777.9	775.7
62.5°	698.0	700.3	696.9	696.9	694.7
65°	614.8	617.0	613.7	613.7	611.5
67.5°	529.4	532.7	528.2	528.2	526.0
70°	440.6	447.2	442.8	443.9	441.7
72.5°	360.7	364.0	359.6	359.6	357.3
75°	280.8	283.0	278.5	279.7	276.3
77.5°	202.0	205.3	200.9	202.0	200.9
80°	135.4	136.5	133.2	134.3	132.1
82.5°	78.8	79.9	78.8	77.7	76.6
85°	35.5	36.6	35.5	35.5	34.4
87.5°	8.9	8.9	8.9	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)