

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P708811

Luminaire Tested: **22APR-22L950-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708811
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-22L950-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

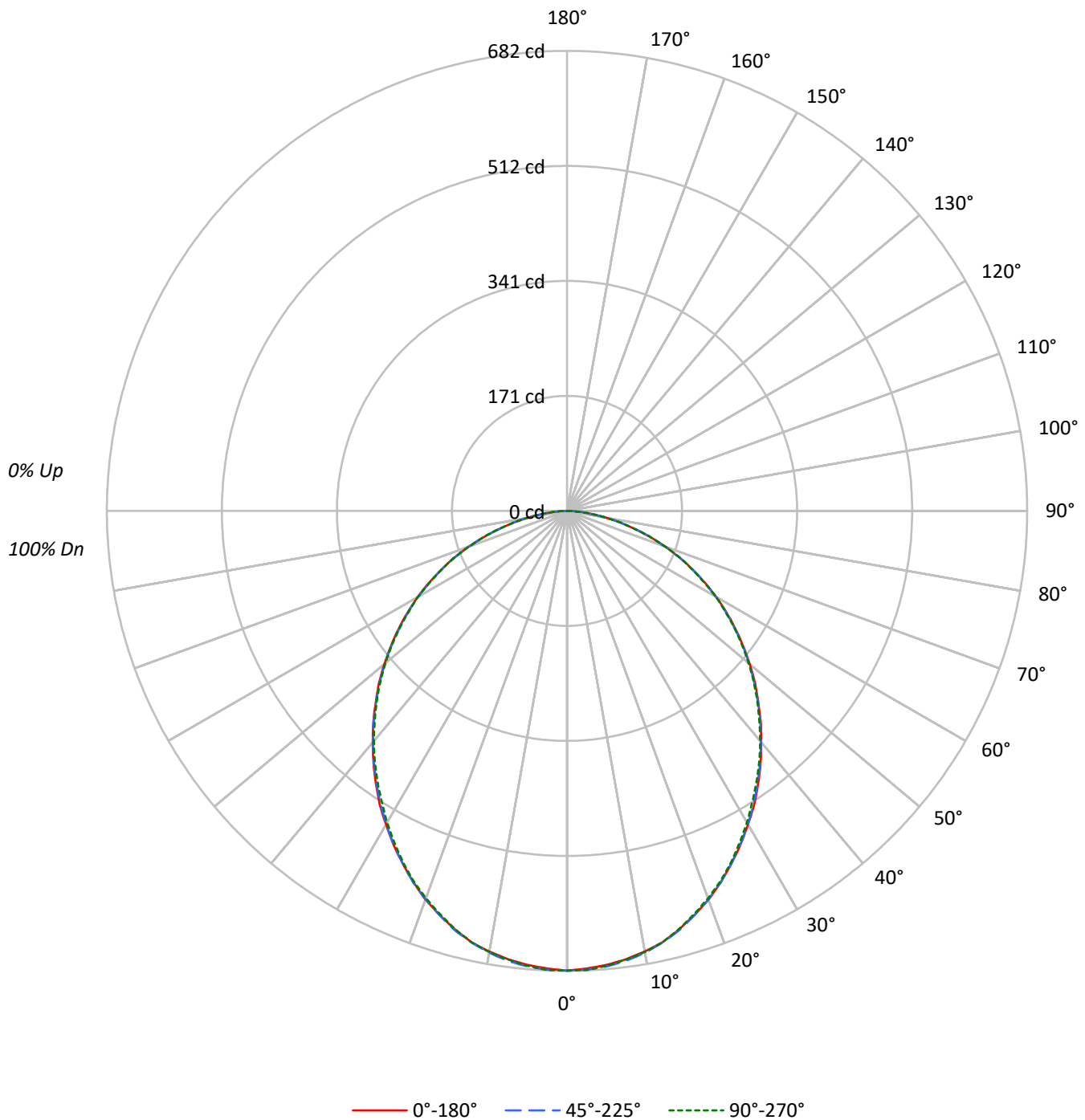
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1741.4 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P708811
CATALOG NUMBER: 22APR-22L950-X-UNV

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90
2	99	91	85	79	97	89	83	78	86	81	76		83	78	74		80
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57
6	71	58	49	43	69	57	48	42	55	47	42		53	47	42		52
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47
8	61	48	39	34	60	47	39	34	46	39	33		45	38	33		43
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1834	1834	1834
5°	1825	1831	1828
10°	1812	1817	1815
15°	1789	1793	1787
20°	1757	1755	1750
25°	1712	1712	1707
30°	1667	1666	1657
35°	1622	1618	1608
40°	1573	1571	1564
45°	1525	1523	1517
50°	1480	1474	1470
55°	1429	1422	1422
60°	1376	1371	1373
65°	1304	1307	1298
70°	1219	1211	1211
75°	1087	1092	1092
80°	919	919	927
85°	698	698	713



TEST NUMBER: P708811
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	3.7
10°-20°	181.1	10.4
20°-30°	265.6	15.2
30°-40°	308.1	17.7
40°-50°	308.9	17.7
50°-60°	271.7	15.6
60°-70°	202.7	11.6
70°-80°	111.6	6.4
80°-90°	27.6	1.6
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°	510.9	29.3
0°-40°	819.0	47.0
0°-60°	1399.5	80.4
0°-90°	1741.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1741.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	676	678	678	678	677	64
15°	642	645	644	642	642	181
25°	577	579	577	576	575	266
35°	494	494	492	491	490	309
45°	401	402	400	400	399	310
55°	305	305	303	304	303	272
65°	205	205	205	204	204	203
75°	104	105	105	104	105	111
85°	23	23	23	23	23	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	681.6	681.6	681.6	681.6	681.6
2.5°	678.8	681.1	680.7	682.1	681.1
5°	675.5	677.9	677.9	677.9	676.9
7.5°	670.3	672.7	672.7	672.7	670.8
10°	663.3	665.6	665.1	665.1	664.2
12.5°	654.8	656.2	655.3	655.3	654.8
15°	642.1	644.9	643.5	642.5	641.6
17.5°	628.0	630.8	628.4	628.0	626.5
20°	613.4	615.2	612.9	612.9	611.0
22.5°	595.5	597.4	595.9	595.0	594.1
25°	576.6	579.0	576.6	576.2	574.8
27.5°	557.3	559.2	556.9	555.0	554.1
30°	536.6	538.0	536.2	534.8	533.3
32.5°	516.4	516.4	514.5	513.1	511.2
35°	493.8	494.3	492.4	491.0	489.6
37.5°	471.2	472.1	470.3	468.8	467.9
40°	447.7	448.6	447.2	445.8	445.3
42.5°	425.1	425.1	424.1	422.7	421.8
45°	400.6	402.0	400.1	399.7	398.7
47.5°	378.0	378.0	376.1	375.2	375.2
50°	353.5	354.5	352.1	351.6	351.2
52.5°	329.0	328.6	328.1	327.6	327.2
55°	304.6	305.0	303.2	303.6	303.2
57.5°	280.1	279.6	279.1	278.7	278.2
60°	255.6	255.1	254.7	254.2	255.1
62.5°	230.2	230.7	229.2	230.7	228.8
65°	204.8	204.8	205.2	204.3	203.8
67.5°	180.3	180.3	179.3	179.3	181.2
70°	154.9	155.3	153.9	155.8	153.9
72.5°	129.9	130.4	129.9	129.5	130.4
75°	104.5	105.0	105.0	104.0	105.0
77.5°	81.4	81.9	81.4	81.0	81.4
80°	59.3	59.8	59.3	58.8	59.8
82.5°	39.5	40.0	39.5	39.5	40.0
85°	22.6	23.1	22.6	22.6	23.1
87.5°	8.9	9.4	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)