

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: P708796

Luminaire Tested: **22APR-22L930-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708796
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-22L930-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

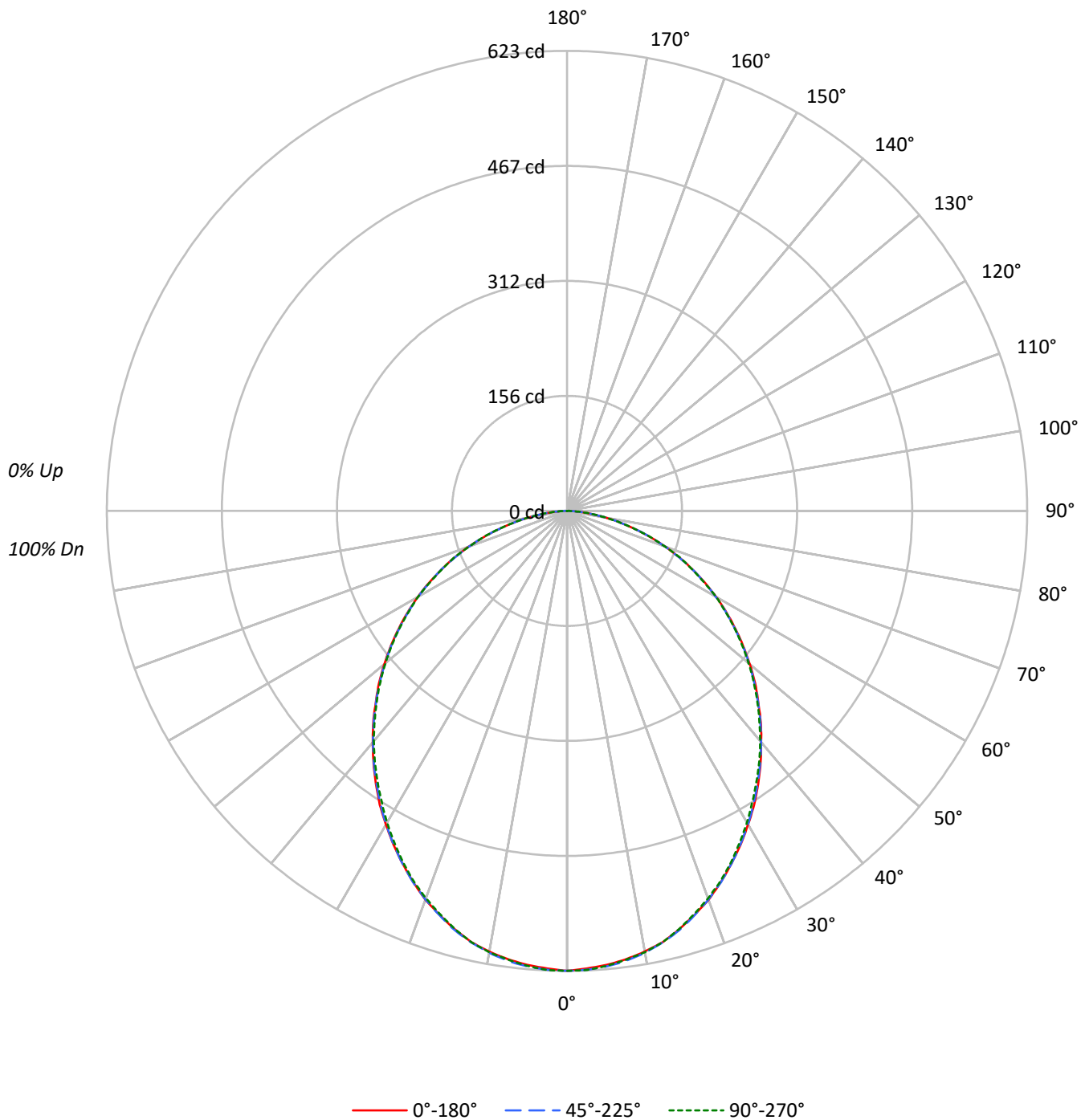
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1591.1 lumens
Efficiency: N/A
Efficacy: 74.7 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 (Ain): 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: P708796
CATALOG NUMBER: 22APR-22L930-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°	1676	1676	1676
5°	1667	1673	1671
10°	1656	1661	1658
15°	1634	1638	1633
20°	1605	1604	1599
25°	1564	1564	1559
30°	1523	1522	1514
35°	1482	1478	1469
40°	1437	1435	1429
45°	1393	1391	1386
50°	1352	1347	1343
55°	1306	1300	1300
60°	1257	1252	1255
65°	1191	1194	1186
70°	1113	1106	1106
75°	993	997	997
80°	840	840	846
85°	636	636	651



TEST NUMBER: P708796
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	3.7
10°-20°	165.5	10.4
20°-30°	242.6	15.2
30°-40°	281.5	17.7
40°-50°	282.2	17.7
50°-60°	248.2	15.6
60°-70°	185.2	11.6
70°-80°	101.9	6.4
80°-90°	25.2	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°	466.8	29.3
0°-40°	748.3	47.0
0°-60°	1278.7	80.4
0°-90°	1591.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	617	619	619	619	618	59
15°	587	589	588	587	586	165
25°	527	529	527	526	525	243
35°	451	452	450	449	447	282
45°	366	367	366	365	364	283
55°	278	279	277	277	277	249
65°	187	187	188	187	186	185
75°	96	96	96	95	96	102
85°	21	21	21	21	21	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.8	622.8	622.8	622.8	622.8
2.5°	620.2	622.3	621.9	623.2	622.3
5°	617.2	619.3	619.3	619.3	618.5
7.5°	612.4	614.6	614.6	614.6	612.9
10°	606.0	608.1	607.7	607.7	606.8
12.5°	598.2	599.5	598.7	598.7	598.2
15°	586.6	589.2	587.9	587.1	586.2
17.5°	573.7	576.3	574.2	573.7	572.4
20°	560.4	562.1	560.0	560.0	558.2
22.5°	544.1	545.8	544.5	543.6	542.8
25°	526.9	529.0	526.9	526.4	525.1
27.5°	509.2	510.9	508.8	507.1	506.2
30°	490.3	491.6	489.9	488.6	487.3
32.5°	471.8	471.8	470.1	468.8	467.1
35°	451.2	451.6	449.9	448.6	447.3
37.5°	430.5	431.4	429.7	428.4	427.5
40°	409.0	409.9	408.6	407.3	406.9
42.5°	388.4	388.4	387.5	386.2	385.4
45°	366.0	367.3	365.6	365.1	364.3
47.5°	345.4	345.4	343.6	342.8	342.8
50°	323.0	323.9	321.7	321.3	320.8
52.5°	300.6	300.2	299.8	299.3	298.9
55°	278.3	278.7	277.0	277.4	277.0
57.5°	255.9	255.5	255.0	254.6	254.2
60°	233.5	233.1	232.7	232.2	233.1
62.5°	210.3	210.7	209.4	210.7	209.0
65°	187.1	187.1	187.5	186.7	186.2
67.5°	164.7	164.7	163.9	163.9	165.6
70°	141.5	141.9	140.6	142.4	140.6
72.5°	118.7	119.1	118.7	118.3	119.1
75°	95.5	95.9	95.9	95.0	95.9
77.5°	74.4	74.8	74.4	74.0	74.4
80°	54.2	54.6	54.2	53.8	54.6
82.5°	36.1	36.6	36.1	36.1	36.6
85°	20.6	21.1	20.6	20.6	21.1
87.5°	8.2	8.6	8.6	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)