

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: P708801

Luminaire Tested: **22APR-22L935-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708801
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-22L935-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

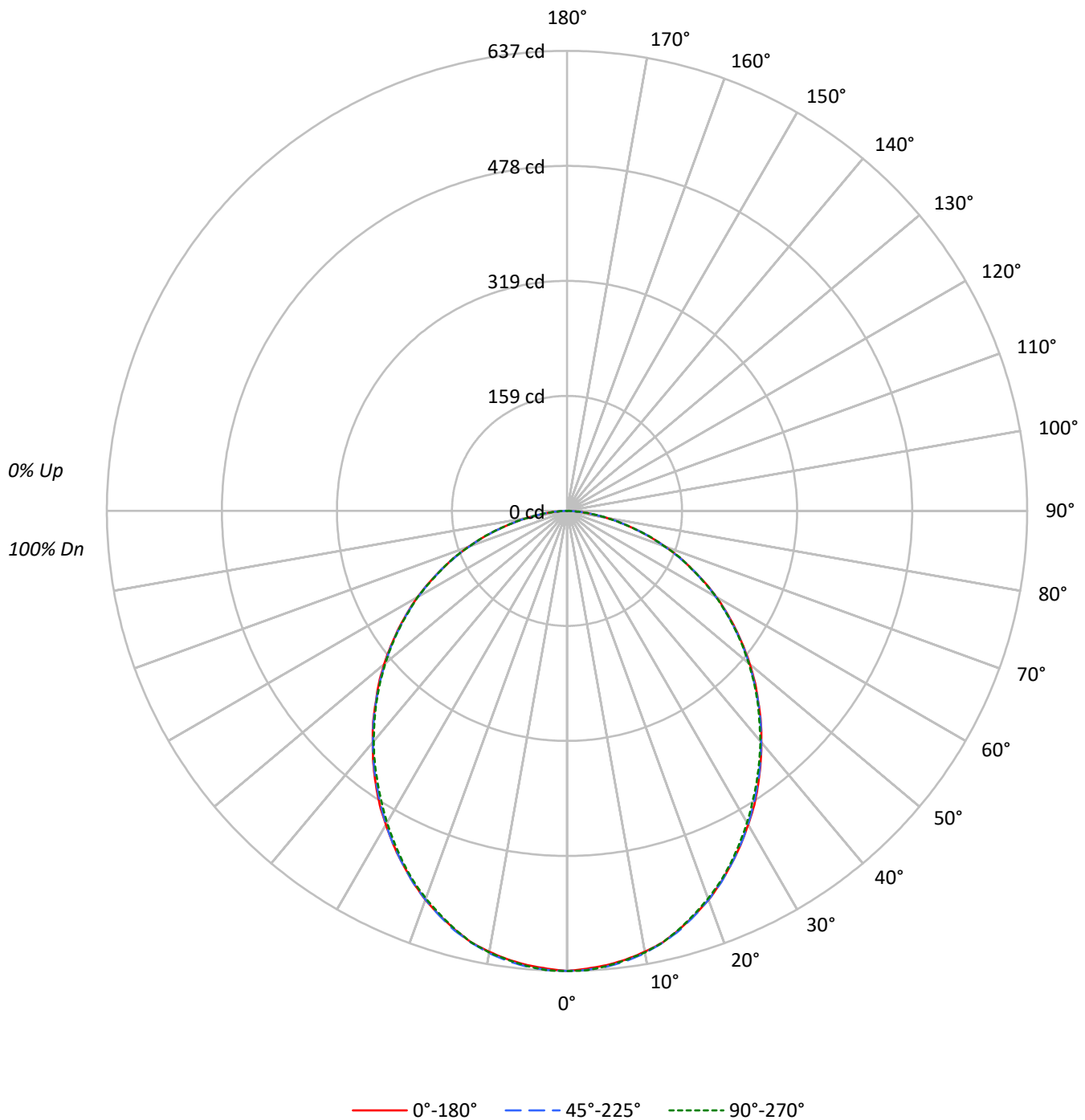
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1627.6 lumens
Efficiency: N/A
Efficacy: 76.4 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

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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1714	1714	1714
5°	1705	1711	1709
10°	1694	1699	1696
15°	1672	1675	1671
20°	1642	1640	1635
25°	1600	1600	1595
30°	1559	1557	1549
35°	1516	1512	1503
40°	1470	1468	1462
45°	1425	1423	1418
50°	1383	1378	1374
55°	1336	1329	1329
60°	1286	1281	1284
65°	1219	1221	1213
70°	1138	1132	1132
75°	1016	1020	1020
80°	859	859	866
85°	651	651	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	3.7
10°-20°	169.3	10.4
20°-30°	248.2	15.2
30°-40°	287.9	17.7
40°-50°	288.7	17.7
50°-60°	253.9	15.6
60°-70°	189.5	11.6
70°-80°	104.3	6.4
80°-90°	25.8	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°	477.5	29.3
0°-40°	765.5	47.0
0°-60°	1308.1	80.4
0°-90°	1627.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1627.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	631	634	634	634	633	60
15°	600	603	601	601	600	169
25°	539	541	539	538	537	248
35°	462	462	460	459	458	289
45°	374	376	374	374	373	289
55°	285	285	283	284	283	255
65°	191	191	192	191	190	190
75°	98	98	98	97	98	104
85°	21	22	21	21	22	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	637.1	637.1	637.1	637.1	637.1
2.5°	634.4	636.6	636.2	637.5	636.6
5°	631.3	633.5	633.5	633.5	632.7
7.5°	626.5	628.7	628.7	628.7	627.0
10°	619.9	622.1	621.7	621.7	620.8
12.5°	612.0	613.3	612.4	612.4	612.0
15°	600.1	602.8	601.4	600.6	599.7
17.5°	586.9	589.6	587.4	586.9	585.6
20°	573.3	575.0	572.8	572.8	571.1
22.5°	556.6	558.3	557.0	556.1	555.2
25°	539.0	541.2	539.0	538.5	537.2
27.5°	520.9	522.7	520.5	518.7	517.8
30°	501.6	502.9	501.1	499.8	498.5
32.5°	482.6	482.6	480.9	479.6	477.8
35°	461.5	462.0	460.2	458.9	457.6
37.5°	440.4	441.3	439.5	438.2	437.3
40°	418.4	419.3	418.0	416.6	416.2
42.5°	397.3	397.3	396.4	395.1	394.2
45°	374.4	375.7	374.0	373.5	372.7
47.5°	353.3	353.3	351.5	350.7	350.7
50°	330.4	331.3	329.1	328.7	328.2
52.5°	307.5	307.1	306.7	306.2	305.8
55°	284.7	285.1	283.3	283.8	283.3
57.5°	261.8	261.3	260.9	260.5	260.0
60°	238.9	238.5	238.0	237.6	238.5
62.5°	215.1	215.6	214.3	215.6	213.8
65°	191.4	191.4	191.8	190.9	190.5
67.5°	168.5	168.5	167.6	167.6	169.4
70°	144.7	145.2	143.9	145.6	143.9
72.5°	121.4	121.9	121.4	121.0	121.9
75°	97.7	98.1	98.1	97.2	98.1
77.5°	76.1	76.6	76.1	75.7	76.1
80°	55.4	55.9	55.4	55.0	55.9
82.5°	37.0	37.4	37.0	37.0	37.4
85°	21.1	21.6	21.1	21.1	21.6
87.5°	8.4	8.8	8.8	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)