

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: P708835

Luminaire Tested: **24APR-X-62L930-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708835
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-X-62L930-UNV
Description: ArcMed Patient Recessed 2x2 Fixture EXAM Light
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

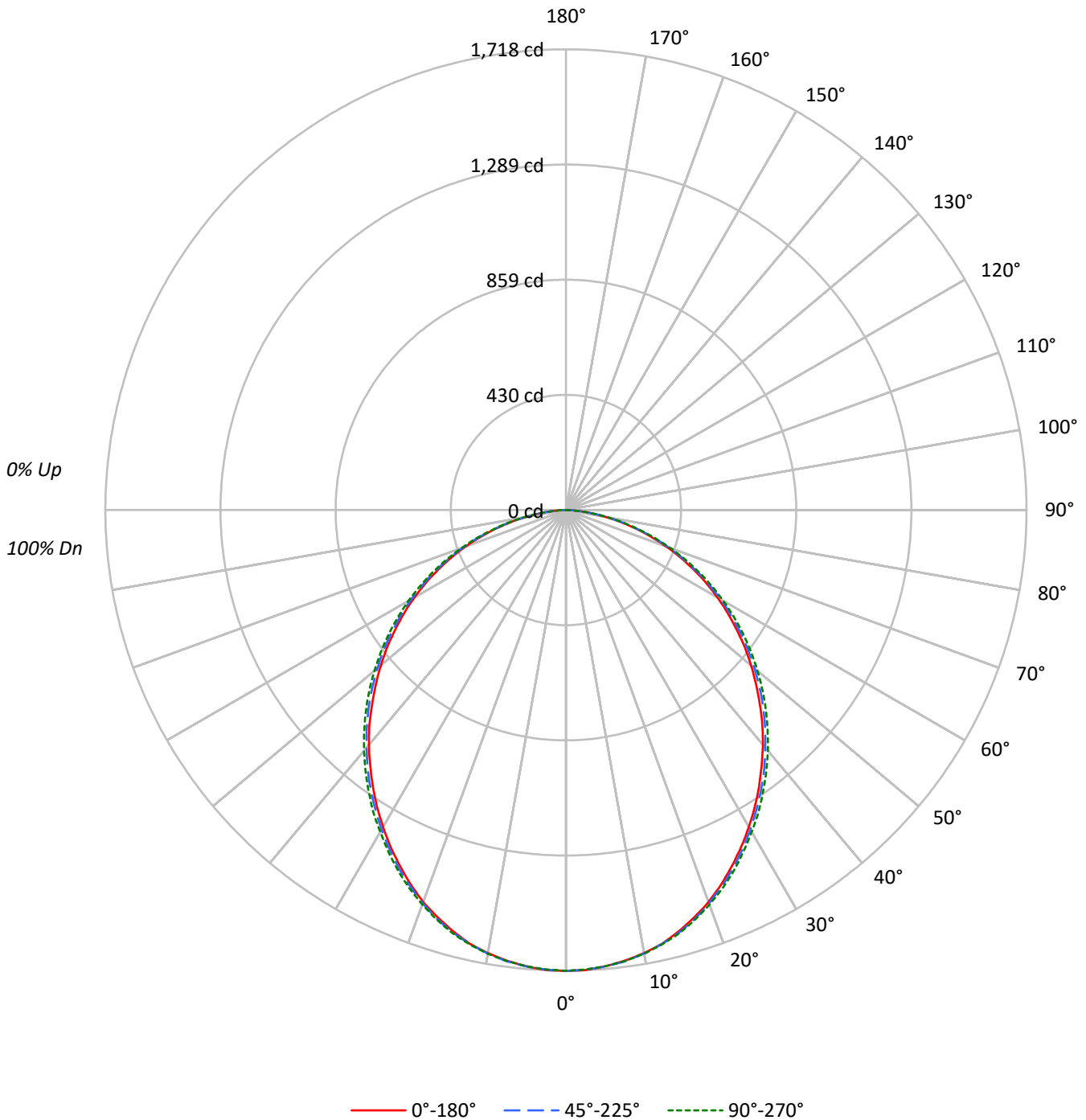
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4503.8 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 51.3
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				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	84	84	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70	70	70	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60	60	60	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	51	51	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44	44	44	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39	39	39	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34	34	34	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31	31	31	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28	28	28	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25	25	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4624	4624	4624
5°	4613	4615	4612
10°	4585	4589	4591
15°	4530	4544	4552
20°	4454	4469	4484
25°	4349	4378	4404
30°	4239	4274	4306
35°	4127	4172	4212
40°	4015	4062	4116
45°	3889	3959	4014
50°	3772	3843	3903
55°	3643	3720	3785
60°	3511	3583	3652
65°	3342	3417	3482
70°	3129	3198	3262
75°	2824	2894	2947
80°	2383	2470	2493
85°	1772	1883	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	3.6
10°-20°	459.4	10.2
20°-30°	678.7	15.1
30°-40°	794.1	17.6
40°-50°	802.0	17.8
50°-60°	708.9	15.7
60°-70°	530.6	11.8
70°-80°	294.9	6.5
80°-90°	72.9	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°	1300.3	28.9
0°-40°	2094.4	46.5
0°-60°	3605.3	80.1
0°-90°	4503.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4503.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1718	1718	1718	1718	1718	
5°	1708	1708	1708	1709	1707	162
15°	1626	1627	1631	1634	1634	458
25°	1465	1467	1474	1479	1483	675
35°	1256	1260	1270	1279	1282	786
45°	1022	1030	1040	1051	1055	789
55°	776	783	793	803	807	695
65°	525	528	537	544	547	520
75°	272	273	278	283	283	288
85°	57	60	61	60	60	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1718.5	1718.5	1718.5	1718.5	1718.5
2.5°	1717.0	1717.0	1715.4	1715.9	1714.9
5°	1707.7	1708.3	1708.3	1708.8	1707.2
7.5°	1694.4	1695.4	1697.0	1697.5	1696.0
10°	1678.0	1679.0	1679.6	1681.6	1680.1
12.5°	1656.5	1657.0	1657.5	1660.6	1659.1
15°	1626.2	1627.3	1630.9	1633.9	1633.9
17.5°	1592.4	1594.5	1598.6	1602.7	1601.6
20°	1555.5	1557.1	1560.6	1566.3	1565.8
22.5°	1512.0	1513.5	1518.6	1524.8	1526.3
25°	1464.8	1466.9	1474.5	1479.2	1483.3
27.5°	1416.1	1418.7	1425.9	1433.0	1435.1
30°	1364.3	1368.4	1375.6	1383.3	1385.9
32.5°	1311.6	1313.6	1323.3	1331.5	1336.7
35°	1256.2	1259.8	1270.0	1278.8	1282.3
37.5°	1199.3	1204.4	1215.2	1224.4	1227.5
40°	1142.9	1147.0	1156.3	1168.0	1171.6
42.5°	1084.5	1088.1	1099.4	1109.6	1113.2
45°	1022.0	1029.7	1040.4	1051.2	1054.8
47.5°	961.5	968.7	979.4	990.2	994.3
50°	901.0	908.7	917.9	929.2	932.3
52.5°	840.5	846.7	856.4	866.2	870.8
55°	776.5	782.6	792.9	802.6	806.7
57.5°	716.0	720.1	729.8	739.1	742.7
60°	652.4	656.5	665.8	675.5	678.6
62.5°	589.9	592.5	601.2	610.4	612.5
65°	524.8	528.4	536.6	543.8	546.9
67.5°	461.3	464.3	471.5	479.2	480.8
70°	397.7	399.8	406.4	412.1	414.6
72.5°	333.7	335.7	342.9	346.0	348.5
75°	271.6	273.2	278.3	283.4	283.4
77.5°	211.2	213.7	217.8	219.9	220.9
80°	153.8	156.3	159.4	161.4	160.9
82.5°	101.5	104.0	106.1	107.1	106.1
85°	57.4	59.5	61.0	60.0	60.0
87.5°	22.6	23.6	24.6	24.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)