

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: P708952

Luminaire Tested: **24APR-X-138L935-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708952
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-X-138L935-UNV
Description: ArcMed Patient Recessed 2x4 Fixture EXAM Light
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

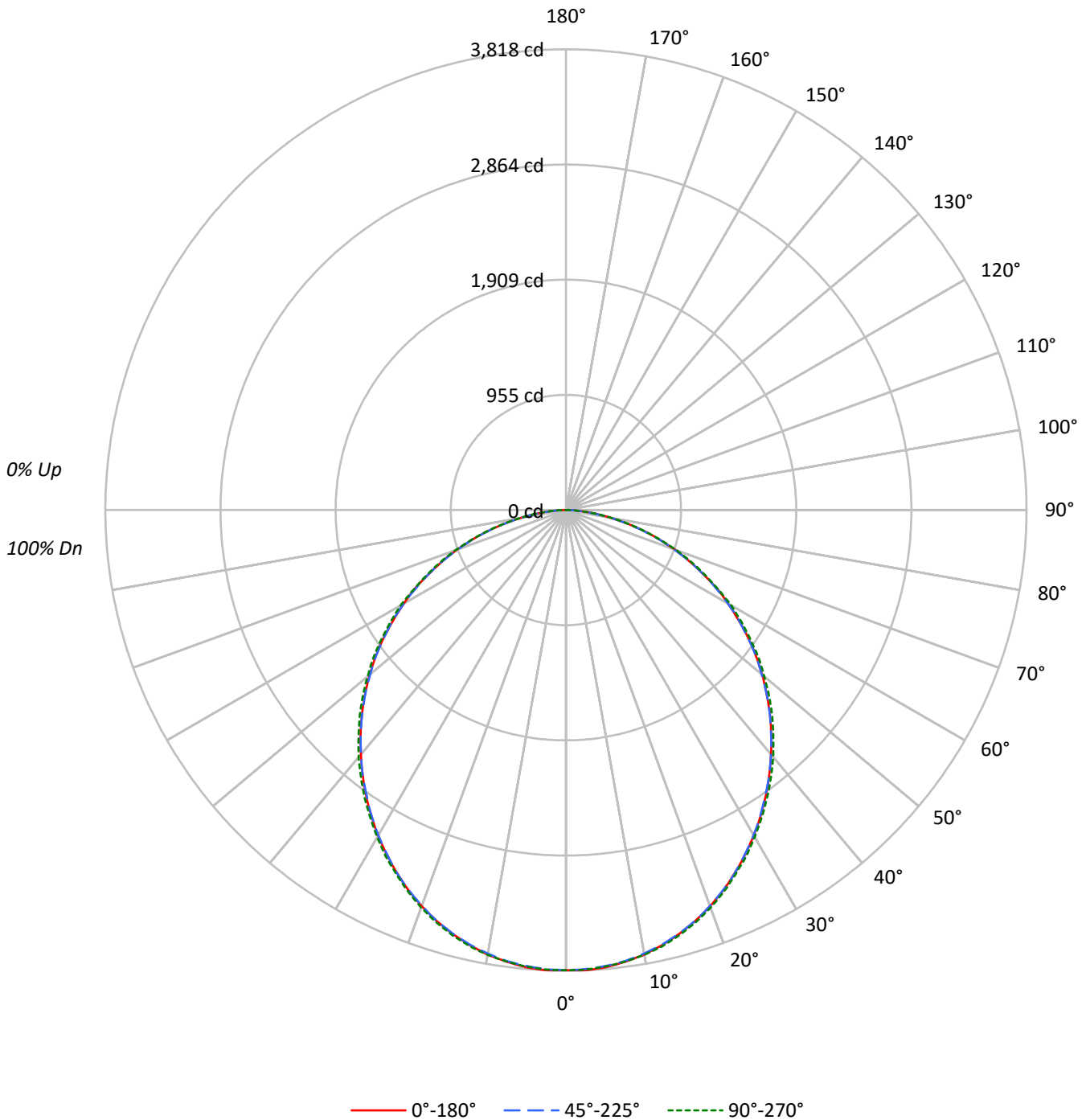
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10350.1 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 103.6
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	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	50
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	46	46	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	27	39	32	27	38	31	27	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5132	5132	5132
5°	5137	5124	5129
10°	5111	5100	5113
15°	5063	5059	5079
20°	5003	4999	5021
25°	4923	4925	4941
30°	4837	4834	4861
35°	4746	4735	4778
40°	4645	4643	4695
45°	4549	4546	4601
50°	4444	4435	4494
55°	4323	4317	4377
60°	4181	4178	4258
65°	3991	3997	4044
70°	3783	3753	3831
75°	3459	3431	3497
80°	2992	2954	3016
85°	2353	2330	2394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.6	3.5
10°-20°	1025.1	9.9
20°-30°	1528.8	14.8
30°-40°	1809.1	17.5
40°-50°	1848.5	17.9
50°-60°	1652.0	16.0
60°-70°	1245.1	12.0
70°-80°	700.9	6.8
80°-90°	180.0	1.7
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°	2914.5	28.2
0°-40°	4723.6	45.6
0°-60°	8224.1	79.5
0°-90°	10350.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10350.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3814	3814	3814	3814	3814	
5°	3804	3798	3794	3797	3797	361
15°	3635	3630	3632	3640	3646	1025
25°	3316	3312	3317	3328	3328	1528
35°	2889	2883	2883	2902	2909	1807
45°	2391	2389	2389	2408	2418	1844
55°	1843	1843	1840	1856	1866	1646
65°	1254	1248	1256	1268	1270	1245
75°	665	653	660	657	673	704
85°	152	146	151	153	155	182
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3813.9	3813.9	3813.9	3813.9	3813.9
2.5°	3818.1	3812.4	3808.2	3810.3	3811.8
5°	3803.5	3798.2	3793.5	3797.2	3797.2
7.5°	3775.7	3773.1	3769.4	3772.6	3773.6
10°	3741.1	3735.4	3732.8	3740.1	3742.7
12.5°	3692.4	3685.6	3687.7	3697.1	3701.3
15°	3634.8	3630.1	3632.2	3639.5	3646.3
17.5°	3569.3	3564.1	3568.8	3575.1	3581.4
20°	3493.9	3488.7	3491.3	3500.2	3507.0
22.5°	3410.1	3404.8	3408.0	3415.8	3423.2
25°	3316.3	3311.6	3317.4	3327.8	3328.4
27.5°	3218.4	3213.1	3214.7	3225.7	3235.6
30°	3113.6	3106.8	3111.5	3122.5	3128.8
32.5°	3003.6	2997.3	3001.0	3013.5	3020.9
35°	2889.4	2883.1	2882.6	2902.0	2908.8
37.5°	2768.4	2764.7	2767.9	2783.6	2792.0
40°	2644.8	2639.5	2643.2	2663.1	2673.1
42.5°	2519.6	2516.4	2517.0	2536.9	2544.7
45°	2390.7	2388.6	2389.1	2407.5	2418.0
47.5°	2257.7	2253.0	2255.1	2273.9	2284.9
50°	2123.0	2122.0	2118.9	2137.7	2147.1
52.5°	1984.8	1982.7	1982.7	1999.4	2013.0
55°	1842.8	1842.8	1840.2	1856.4	1865.9
57.5°	1694.0	1695.1	1699.3	1713.9	1723.4
60°	1553.7	1548.4	1552.6	1565.7	1582.5
62.5°	1413.8	1398.1	1402.3	1414.3	1421.1
65°	1253.5	1247.7	1255.6	1267.6	1270.3
67.5°	1106.3	1100.5	1104.7	1113.1	1124.6
70°	961.7	946.5	953.9	962.8	973.8
72.5°	809.8	796.7	807.2	814.5	822.4
75°	665.3	652.7	660.0	656.9	672.6
77.5°	520.2	511.2	517.5	523.8	535.9
80°	386.1	376.1	381.3	384.0	389.2
82.5°	263.0	255.6	257.2	267.7	264.5
85°	152.4	146.1	150.9	153.0	155.1
87.5°	60.2	54.5	59.2	60.8	61.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)