

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: P709043

Luminaire Tested: **24APR-49-116L950-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P709043
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-49-116L950-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient and Exam Light
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

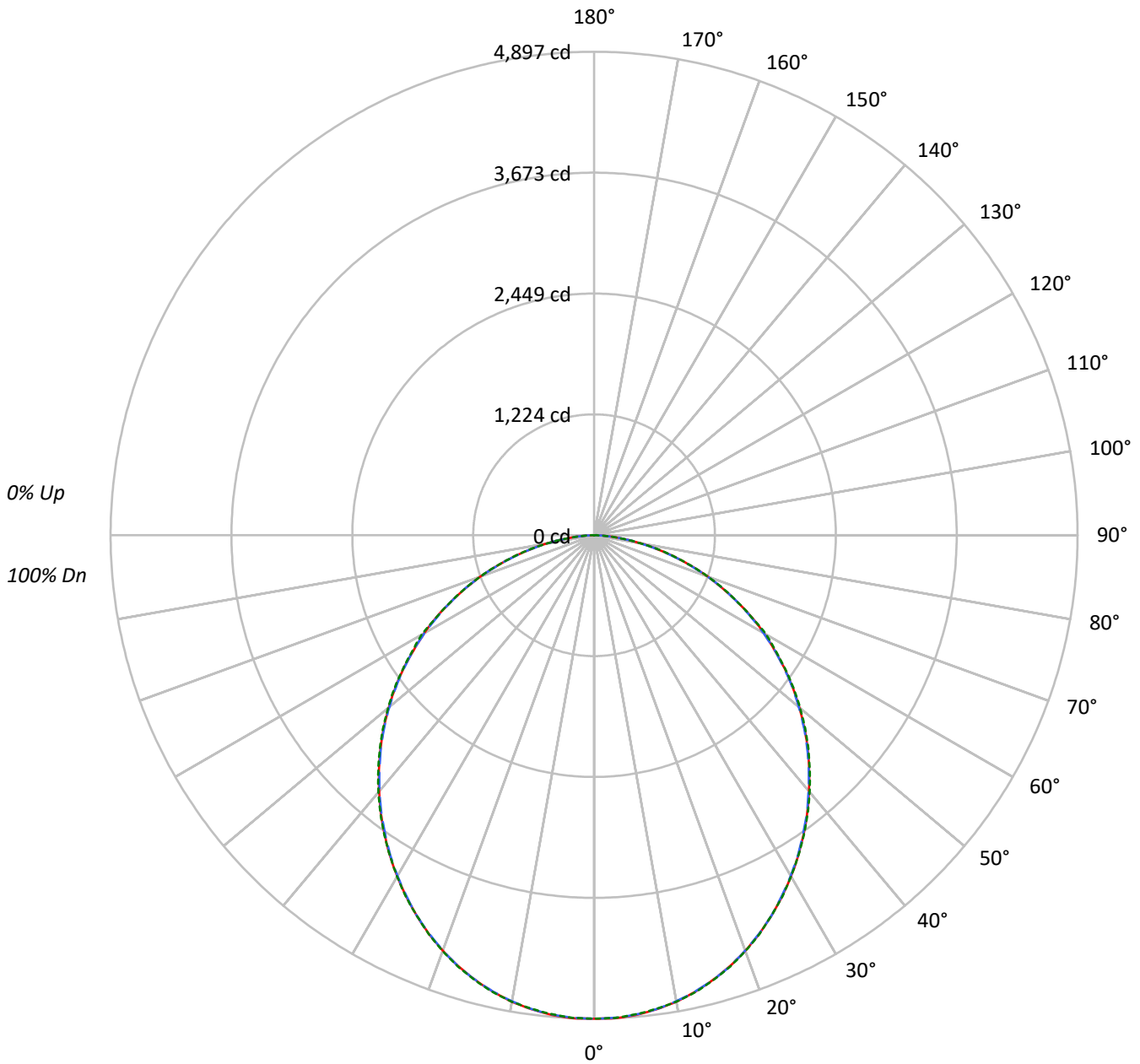
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13215.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 128.7
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



0% Up
100% Dn

— 0°-180° - - 45°-225° - · - · 90°-270°



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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	92	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	73	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	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	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	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6589	6589	6589
5°	6589	6583	6579
10°	6555	6549	6554
15°	6493	6493	6500
20°	6413	6409	6418
25°	6313	6310	6310
30°	6199	6189	6199
35°	6077	6061	6085
40°	5948	5937	5968
45°	5821	5810	5841
50°	5682	5668	5704
55°	5527	5513	5546
60°	5345	5332	5426
65°	5102	5103	5117
70°	4821	4795	4827
75°	4399	4364	4394
80°	3797	3750	3775
85°	2963	2933	2925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.8	3.5
10°-20°	1314.4	9.9
20°-30°	1957.5	14.8
30°-40°	2312.6	17.5
40°-50°	2359.2	17.9
50°-60°	2105.1	15.9
60°-70°	1587.1	12.0
70°-80°	889.8	6.7
80°-90°	226.4	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°	3734.7	28.3
0°-40°	6047.3	45.8
0°-60°	10511.7	79.5
0°-90°	13215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13215.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4897	4897	4897	4897	4897	
5°	4878	4876	4874	4875	4871	463
15°	4661	4658	4661	4665	4666	1314
25°	4252	4247	4250	4254	4250	1958
35°	3700	3695	3690	3701	3705	2314
45°	3059	3058	3053	3062	3070	2360
55°	2356	2351	2350	2357	2364	2105
65°	1602	1594	1603	1608	1607	1590
75°	846	832	840	835	845	896
85°	192	185	190	190	190	229
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4896.9	4896.9	4896.9	4896.9	4896.9
2.5°	4896.9	4894.5	4892.7	4892.2	4893.1
5°	4878.5	4876.2	4873.8	4874.8	4871.0
7.5°	4843.3	4843.7	4841.9	4842.3	4838.1
10°	4797.7	4795.3	4793.4	4797.7	4797.2
12.5°	4736.0	4731.8	4733.7	4740.3	4740.7
15°	4661.3	4658.4	4661.3	4664.6	4666.4
17.5°	4576.1	4573.8	4577.1	4577.5	4581.3
20°	4478.8	4476.0	4476.0	4480.7	4482.5
22.5°	4371.1	4366.8	4367.8	4371.1	4373.4
25°	4252.1	4246.9	4250.2	4254.0	4250.2
27.5°	4123.7	4120.9	4117.6	4122.3	4128.4
30°	3989.7	3984.0	3983.5	3986.8	3990.1
32.5°	3848.1	3841.5	3841.5	3845.7	3848.6
35°	3699.9	3694.8	3690.1	3700.9	3704.6
37.5°	3547.1	3541.0	3540.5	3547.1	3553.2
40°	3386.7	3381.5	3380.1	3391.4	3398.0
42.5°	3224.9	3221.6	3218.3	3229.6	3234.8
45°	3059.4	3057.5	3053.3	3062.2	3069.7
47.5°	2889.1	2883.0	2881.6	2891.9	2899.5
50°	2714.6	2712.3	2707.6	2717.0	2725.0
52.5°	2537.8	2535.0	2531.7	2540.2	2548.6
55°	2356.3	2351.1	2350.2	2357.2	2364.3
57.5°	2167.2	2163.0	2169.6	2176.1	2181.8
60°	1986.1	1976.3	1981.4	1989.0	2016.2
62.5°	1804.1	1786.7	1790.5	1811.2	1799.4
65°	1602.4	1594.4	1602.8	1607.5	1607.1
67.5°	1413.3	1403.9	1416.6	1412.8	1418.5
70°	1225.6	1209.2	1219.0	1220.5	1227.0
72.5°	1031.9	1017.8	1026.2	1030.5	1034.7
75°	846.1	831.5	839.5	834.8	845.2
77.5°	661.3	652.3	657.5	660.8	668.8
80°	490.1	480.2	484.0	484.4	487.2
82.5°	332.0	324.5	325.5	333.9	330.6
85°	191.9	184.8	190.0	189.5	189.5
87.5°	74.8	69.1	74.3	73.8	72.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)