

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: P708809

Luminaire Tested: **22APR-30L950-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708809
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-30L950-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

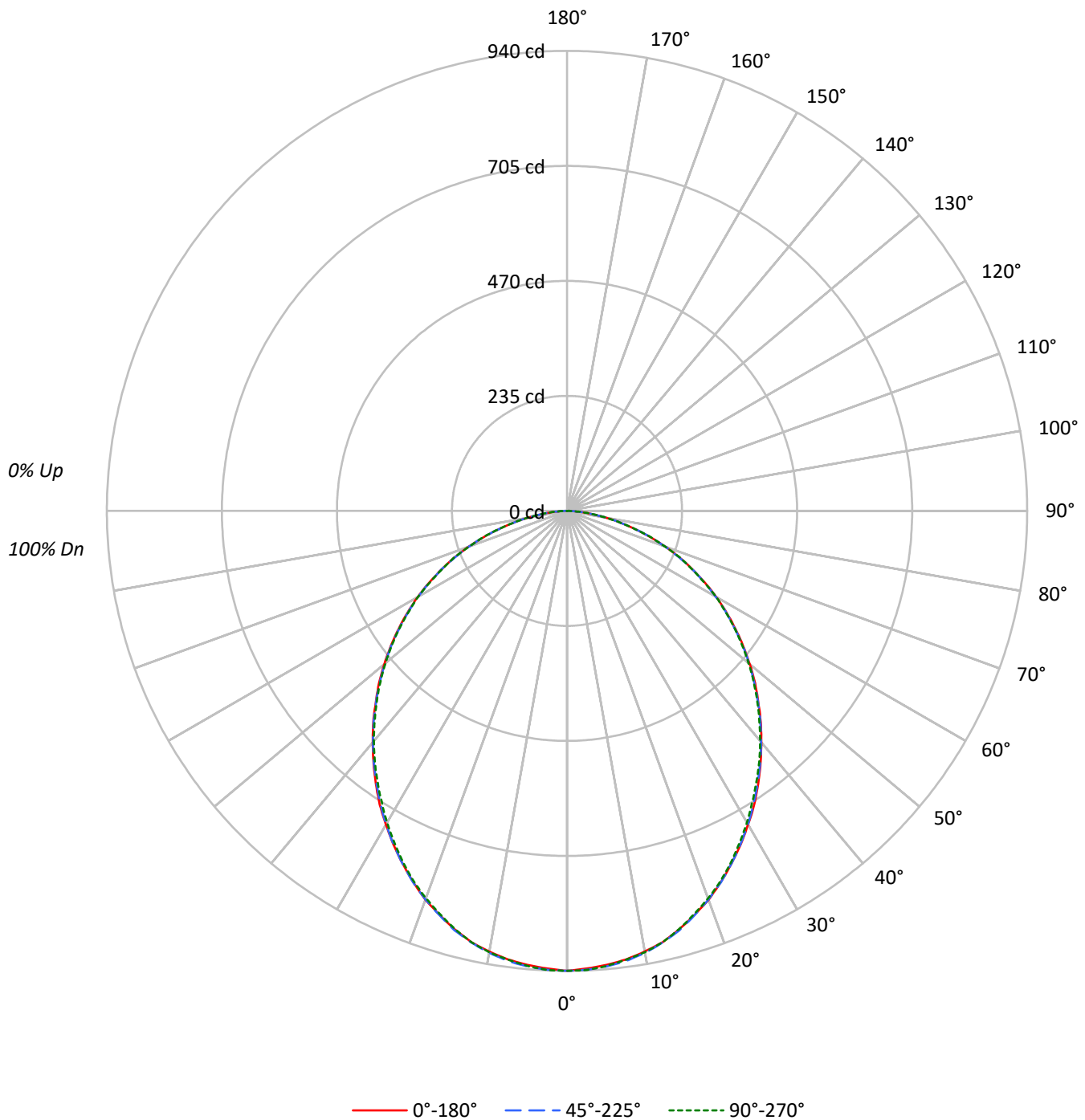
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2400.8 lumens
Efficiency: N/A
Efficacy: 79.8 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): 30.1
Input Voltage (V): 120
Input Current (A_{in}): 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
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°	2529	2529	2529
5°	2516	2524	2521
10°	2499	2506	2502
15°	2466	2472	2464
20°	2422	2420	2412
25°	2360	2360	2353
30°	2299	2297	2285
35°	2236	2230	2217
40°	2168	2166	2157
45°	2102	2099	2092
50°	2040	2032	2027
55°	1970	1961	1961
60°	1897	1890	1893
65°	1798	1802	1789
70°	1680	1670	1670
75°	1498	1504	1504
80°	1268	1268	1277
85°	963	963	982

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	3.7
10°-20°	249.7	10.4
20°-30°	366.1	15.2
30°-40°	424.7	17.7
40°-50°	425.8	17.7
50°-60°	374.5	15.6
60°-70°	279.5	11.6
70°-80°	153.8	6.4
80°-90°	38.1	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°	704.4	29.3
0°-40°	1129.1	47.0
0°-60°	1929.5	80.4
0°-90°	2400.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2400.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	931	934	934	934	933	88
15°	885	889	887	886	885	249
25°	795	798	795	794	792	366
35°	681	681	679	677	675	426
45°	552	554	552	551	550	427
55°	420	420	418	419	418	376
65°	282	282	283	282	281	280
75°	144	145	145	143	145	154
85°	31	32	31	31	32	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.7	939.7	939.7	939.7	939.7
2.5°	935.8	939.1	938.4	940.4	939.1
5°	931.3	934.5	934.5	934.5	933.2
7.5°	924.2	927.4	927.4	927.4	924.8
10°	914.4	917.7	917.0	917.0	915.7
12.5°	902.7	904.7	903.4	903.4	902.7
15°	885.2	889.1	887.2	885.9	884.6
17.5°	865.7	869.6	866.4	865.7	863.8
20°	845.6	848.2	845.0	845.0	842.4
22.5°	821.0	823.6	821.6	820.3	819.0
25°	795.0	798.3	795.0	794.4	792.4
27.5°	768.4	771.0	767.8	765.2	763.9
30°	739.8	741.8	739.2	737.2	735.3
32.5°	711.9	711.9	709.3	707.4	704.8
35°	680.8	681.4	678.8	676.9	674.9
37.5°	649.6	650.9	648.3	646.4	645.1
40°	617.2	618.5	616.5	614.6	613.9
42.5°	586.0	586.0	584.7	582.8	581.5
45°	552.3	554.2	551.6	551.0	549.7
47.5°	521.1	521.1	518.5	517.2	517.2
50°	487.4	488.7	485.4	484.8	484.1
52.5°	453.6	453.0	452.3	451.7	451.0
55°	419.9	420.5	417.9	418.6	417.9
57.5°	386.1	385.5	384.8	384.2	383.6
60°	352.4	351.8	351.1	350.5	351.8
62.5°	317.4	318.0	316.1	318.0	315.4
65°	282.3	282.3	283.0	281.7	281.0
67.5°	248.6	248.6	247.3	247.3	249.9
70°	213.5	214.2	212.2	214.8	212.2
72.5°	179.1	179.8	179.1	178.5	179.8
75°	144.1	144.7	144.7	143.4	144.7
77.5°	112.3	112.9	112.3	111.6	112.3
80°	81.8	82.4	81.8	81.1	82.4
82.5°	54.5	55.2	54.5	54.5	55.2
85°	31.2	31.8	31.2	31.2	31.8
87.5°	12.3	13.0	13.0	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)