

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: P708781

Luminaire Tested: **22APR-22L835-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708781
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-22L835-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

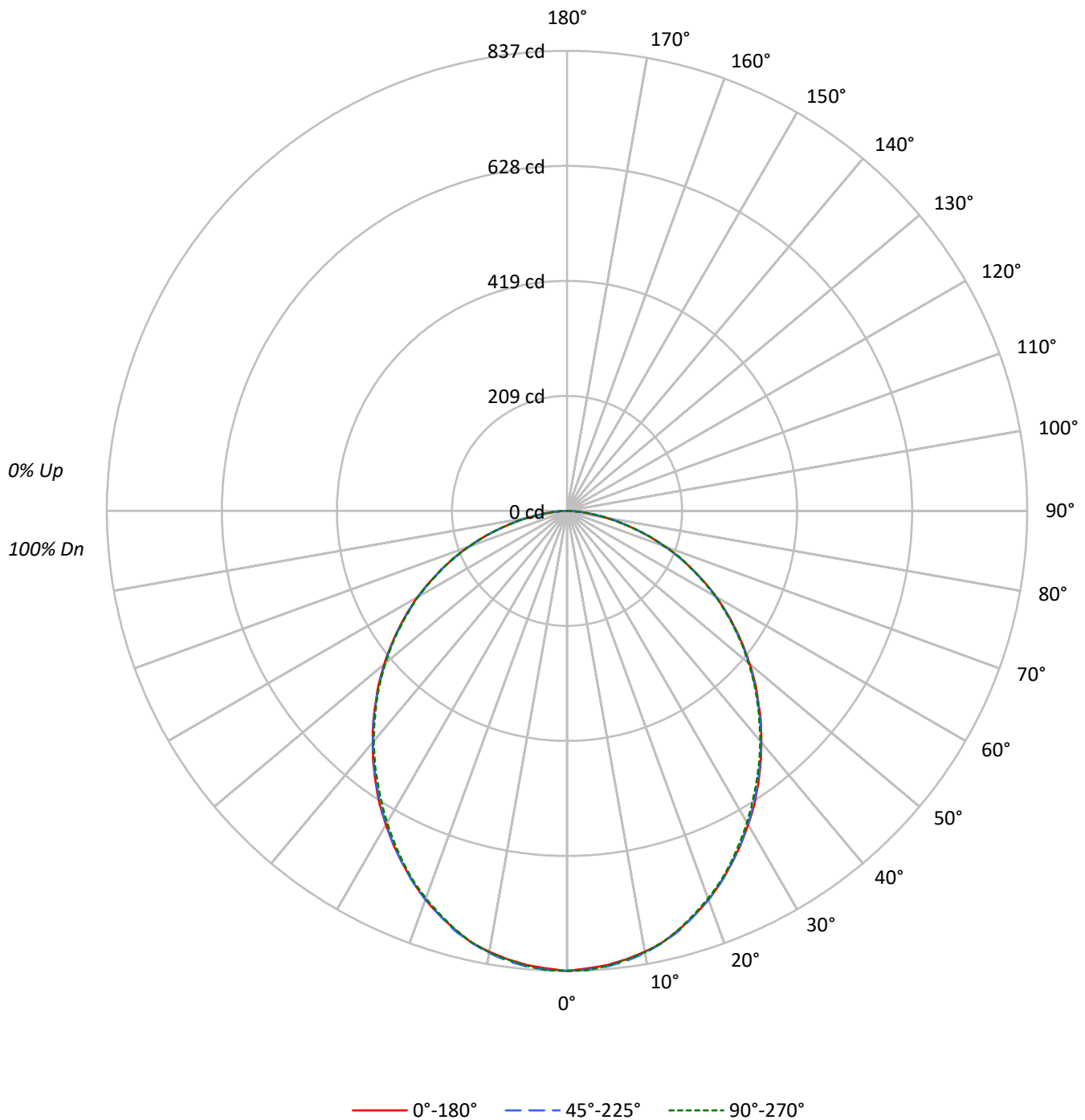
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2138.1 lumens
Efficiency: N/A
Efficacy: 100.4 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 (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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	73	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	62	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	53	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	47	47	45
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	41	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	37	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	33	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2252	2252	2252
5°	2240	2248	2245
10°	2225	2232	2228
15°	2196	2201	2195
20°	2157	2155	2148
25°	2102	2102	2095
30°	2047	2046	2035
35°	1992	1986	1975
40°	1931	1929	1921
45°	1872	1870	1863
50°	1817	1810	1805
55°	1754	1746	1746
60°	1689	1683	1686
65°	1601	1605	1594
70°	1496	1487	1487
75°	1334	1340	1340
80°	1128	1128	1137
85°	855	855	874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	3.7
10°-20°	222.4	10.4
20°-30°	326.0	15.2
30°-40°	378.2	17.7
40°-50°	379.2	17.7
50°-60°	333.5	15.6
60°-70°	248.9	11.6
70°-80°	137.0	6.4
80°-90°	33.9	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°	627.3	29.3
0°-40°	1005.6	47.0
0°-60°	1718.3	80.4
0°-90°	2138.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2138.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	837	837	837	837	837	
5°	829	832	832	832	831	79
15°	788	792	790	789	788	222
25°	708	711	708	707	706	326
35°	606	607	605	603	601	379
45°	492	494	491	491	490	380
55°	374	374	372	373	372	334
65°	251	251	252	251	250	249
75°	128	129	129	128	129	137
85°	28	28	28	28	28	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	836.9	836.9	836.9	836.9	836.9
2.5°	833.4	836.3	835.7	837.5	836.3
5°	829.4	832.3	832.3	832.3	831.1
7.5°	823.0	825.9	825.9	825.9	823.6
10°	814.4	817.3	816.7	816.7	815.5
12.5°	804.0	805.7	804.5	804.5	804.0
15°	788.4	791.8	790.1	788.9	787.8
17.5°	771.0	774.5	771.6	771.0	769.3
20°	753.1	755.4	752.5	752.5	750.2
22.5°	731.1	733.4	731.7	730.6	729.4
25°	708.0	710.9	708.0	707.4	705.7
27.5°	684.3	686.6	683.7	681.4	680.3
30°	658.9	660.6	658.3	656.6	654.8
32.5°	634.0	634.0	631.7	630.0	627.7
35°	606.3	606.9	604.6	602.8	601.1
37.5°	578.6	579.7	577.4	575.7	574.5
40°	549.7	550.8	549.1	547.3	546.8
42.5°	521.9	521.9	520.8	519.0	517.9
45°	491.9	493.6	491.3	490.7	489.5
47.5°	464.1	464.1	461.8	460.6	460.6
50°	434.1	435.2	432.3	431.7	431.2
52.5°	404.0	403.4	402.8	402.3	401.7
55°	373.9	374.5	372.2	372.8	372.2
57.5°	343.9	343.3	342.7	342.2	341.6
60°	313.8	313.3	312.7	312.1	313.3
62.5°	282.6	283.2	281.5	283.2	280.9
65°	251.4	251.4	252.0	250.8	250.3
67.5°	221.4	221.4	220.2	220.2	222.5
70°	190.2	190.7	189.0	191.3	189.0
72.5°	159.5	160.1	159.5	158.9	160.1
75°	128.3	128.9	128.9	127.7	128.9
77.5°	100.0	100.6	100.0	99.4	100.0
80°	72.8	73.4	72.8	72.2	73.4
82.5°	48.5	49.1	48.5	48.5	49.1
85°	27.7	28.3	27.7	27.7	28.3
87.5°	11.0	11.6	11.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)