

Description:

The Amico MIL-Spec Surgical Luminaires use high quality LEDs that come in 80 and 90 CRI options. This product comes standard with an integrated RFI in-line filter, meeting emissions standards as per MIL-STD-461G. The lenses used are Symmetrical / Asymmetrical and designed to reduce glare. By using a one piece sealed housing and smooth doorframe and lens, the luminaire is ideal for easy cleaning and infection control. The housing is designed for either flange or grid ceiling installations.

Features:

- Hospital grade material and finish
- Glare-free reflectors
- Seam welded
- Long lasting LEDs
- Complies with MIL-STD-461G standard for radiated and conducted emission regulations



Construction Material:

Housing: 20 Gauge CRS. One piece, seam-welded construction.

Lens: IP65 rated fully enclosed CRS cover with asymmetrical/symmetrical acrylic lens. Optional RFI grid available.

Finish: White urethane powder coat finish – 5 step treatment; hospital grade material and finish.

Light Source: Samsung LEDs mounted on Aluminum Core PCB.

Drivers: High power factor constant current, 0.97 pf @ 120 V (Class 2, Class II).

RFI Filter: Power line RFI filter used to control conducted emissions.

Specifications:

Voltage: 120-277 Volts.

Dimming: 0 - 10 Volts and DALI options available.

Color Quality: 80 CRI, 90 CRI.

Color Temperature: 3500K, 4000K, 5000K.

Size Options: 1' x 4' x 4" / 2' x 2' x 4" / 2' x 4' x 4" fits into a standard ceiling grid layout.

Life of LEDs: L70> 100,000 hours.

Listings: Luminaire is certified to UL standards by Intertek. Conducted emissions controlled as per MIL-STD-461G.

Warranty: Limited five (5) year warranty.

Solar Series

MIL-Spec Surgical LED Luminaire

Surgical Troffer Lumen Output Tables:

2' x 4'

80+ CRI	Output (Lumens)	Input Power (Watts)	Efficacy (Lm/W)	Input Current @ 120V (A)	Input Current @ 277V (A)	90+ CRI	Output (Lumens)	Input Power (Watts)	Efficacy (Lm/W)	Input Current @ 120V (A)	Input Current @ 277V (A)
Low	11,106	101	110	0.849	0.486	Low	9,440	101	93	0.849	0.486
3500K Medium	15,548	148	105	1.239	0.637	3500K Medium	13,216	148	89	1.239	0.637
High	20,192	200	101	1.670	0.804	High	17,164	200	86	1.670	0.804
Low	11,449	101	113	0.849	0.486	Low	9,732	101	96	0.849	0.486
4000K Medium	16,029	148	108	1.239	0.637	4000K Medium	13,625	148	92	1.239	0.637
High	20,817	200	104	1.670	0.804	High	17,694	200	88	1.670	0.804
Low	11,867	101	117	0.849	0.486	Low	10,239	101	101	0.849	0.486
5000K Medium	16,640	148	112	1.239	0.637	5000K Medium	14,256	148	96	1.239	0.637
High	21,442	200	107	1.670	0.804	High	18,225	200	91	1.670	0.804

2' x 2'

80+ CRI	Output (Lumens)	Input Power (Watts)	Efficacy (Lm/W)	Input Current @ 120V (A)	Input Current @ 277V (A)	90+ CRI	Output (Lumens)	Input Power (Watts)	Efficacy (Lm/W)	Input Current @ 120V (A)	Input Current @ 277V (A)
Low	4,979	48	105	0.406	0.306	Low	4,232	48	89	0.406	0.306
3500K Medium	6,971	70	100	0.588	0.377	3500K Medium	5,925	70	85	0.588	0.377
High	9,053	95	96	0.792	0.455	High	7,695	95	81	0.792	0.455
Low	5,119	48	108	0.406	0.306	Low	4,352	48	92	0.406	0.306
4000K Medium	7,177	70	103	0.588	0.377	4000K Medium	6,101	70	87	0.588	0.377
High	9,332	95	99	0.792	0.455	High	7,932	95	84	0.792	0.455
Low	5,261	48	111	0.406	0.306	Low	4,472	48	94	0.406	0.306
5000K Medium	7,385	70	106	0.588	0.377	5000K Medium	6,277	70	90	0.588	0.377
High	9,613	95	102	0.792	0.455	High	8,171	95	86	0.792	0.455

1' x 4'

80+ CRI	Output (Lumens)	Input Power (Watts)	Efficacy (Lm/W)	Input Current @ 120V (A)	Input Current @ 277V (A)	90+ CRI	Output (Lumens)	Input Power (Watts)	Efficacy (Lm/W)	Input Current @ 120V (A)	Input Current @ 277V (A)
Low	4,311	47	92	0.406	0.306	Low	3,665	47	78	0.406	0.306
3500K Medium	6,036	69	87	0.588	0.377	3500K Medium	5,130	69	74	0.588	0.377
High	7,839	94	83	0.792	0.455	High	6,663	94	71	0.792	0.455
Low	4,617	47	99	0.406	0.306	Low	3,925	47	84	0.406	0.306
4000K Medium	6,489	69	94	0.588	0.377	4000K Medium	5,516	69	80	0.588	0.377
High	8,079	94	86	0.792	0.455	High	6,867	94	73	0.792	0.455
Low	4,552	47	97	0.406	0.306	Low	3,869	45	83	0.406	0.306
5000K Medium	6,392	69	92	0.588	0.377	5000K Medium	5,433	66	79	0.588	0.377
High	8,323	94	88	0.792	0.455	High	7,075	94	75	0.792	0.455

Solar Series

MIL-Spec Surgical LED Luminaire



Ordering Guide:

L - SURG - ML -

Size

Voltage

Color Temperature

CRI

Output

Optics

Mounting Option

Accessories

For Example: L-SURG-ML-14-120-L35-A-L-SY-GM-EM
 Solar Series MIL-Spec Surgical LED Luminaire, 1' x 4', 120 V, 3500 Kelvin, 80 CRI, Low Output, Symmetrical Optics, Grid Mount, Emergency Battery Backup

Ordering Information:

Series	Size	Voltage*	Color Temperature		CRI	Output**		Optics		Mounting Options		Accessories	
L-SURG-ML	14 1' x 4'	120	L35	3500K	A 80	L	Low	SY	Symmetrical	GM	Grid mount	EM	Emergency battery backup
	22 2' x 2'	277	L40	4000K	B 90	M	Medium	AS	Asymmetrical	CM	Continuous row mounting (drywall ceiling)	TC	Two circuit wiring
	24 2' x 4'	*Consult factory for additional voltage requirements	L50	5000K		H	High			HC	Single drywall ceiling	ET	Emergency backup w/two circuit wiring
	CXX		Custom Options		C	Custom Lumens				00	No options		
**Refer to Lumen output table													

Configurations:



1' x 4'



2' x 2'



2' x 4'

Lumen Multipliers:

CCT Multiplier	80 CRI	90 CRI
2700K	0.9	0.75
3000K	0.95	0.8
3500K	0.97	0.82
4000K	1	0.85

Solar Series

MIL-Spec Surgical LED Luminaire

Dimensions:

