

burton

Luxo Medical Products



AIM-100™

OPERATION & MAINTENANCE
INSTRUCTIONS

PERFORMANCE RELIABILITY VALUE

The Right Light

MINOR SURGERY

The following models are covered in this manual:			
	120 V	240 V	100 V
AIM-100™ Floor Stand Version	A100FL	A102 FL	A101FL
AIM-100™ Single Ceiling Version	A100SC	A102 SC	A101SC
AIM-100™ Double Ceiling Version	A100DC	A102 DC	A101DC
AIM-100™ Wall Mount Version	A100W	A102 W	A101W

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This manual contains detailed information on the above, but the responsibility for effective and safe use of the product ultimately rests with the user. Products should at all times be handled by qualified staff; it is the responsibility of the user to ensure this is the case.

Introduction

Congratulations on your purchase of the AIM-100™ Minor Surgery Light!

The AIM-100™ Minor Surgery Light is designed to give the professional health care market superior performance, reliability and value. The light contains advanced optical and mechanical solutions aimed at offering you an optimal working environment for efficient and comfortable procedures, while assisting in enhancing performance.

Built in features of the AIM-100™ include intensity, color correction, shadow reduction, light distribution, spot appearance, focusability and maneuverability. The AIM-100's™ solid and durable construction ensures many years of trouble-free professional lighting.

The AIM-100™ Minor Surgery Light is intended to be used as a light for surgeries, procedures, and patient examinations. It is available in floor stand, wall mount and single or double ceiling models. Effective working distance between patient and light head is from 24-39" (0.6 -1.0 m). A removable and autoclavable handle (which also serves as bulb-focus control) accepts pre-sterilized covers.

This manual contains guidance on how to operate & maintain the AIM-100™ Minor Surgery Light. For instructions on how to install the product, please refer to the installation manual furnished with the product.

Burton Medical Products is a leading manufacturer of medical lighting. The product lines encompass lights for diagnostic, procedure, minor surgery, and major surgery applications. You are welcome to find out more on our web site at www.burtonmedical.com




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Symbols & Warnings




Symbols Used In This Manual

 WARNING	Disregarding this instruction can present the risk of a serious or fatal injury.
 CAUTION	Disregarding this instruction can result in medium to light injury and damage to property.
 IMPORTANT	Provides usage tips and useful information.

Symbols & Warnings used on the product

Symbol	Meaning
	Manual should be consulted
	Ground connection, unprotected
	Protective ground connection
	Hot surface
	Alternating current
	CE-conformance mark
>PC<	Polycarbonate plastic material – Please sort and recycle
	On (power connection to the mains)
	Off (power disconnection to the mains)
	On / Off (power connection/disconnection to the mains)
	Attention, consult accompanying documents
	Dangerous voltage
	Indicates separate collection for electrical and electronic equipment.

Specific warning labels on the product

 CAUTION – Retainer clip must be properly installed to avoid safety hazard
 CAUTION – Key must be properly installed to avoid safety hazard
 CAUTION – Hot surfaces, Do not touch bulbs/lenses.

Technical Description

Main components

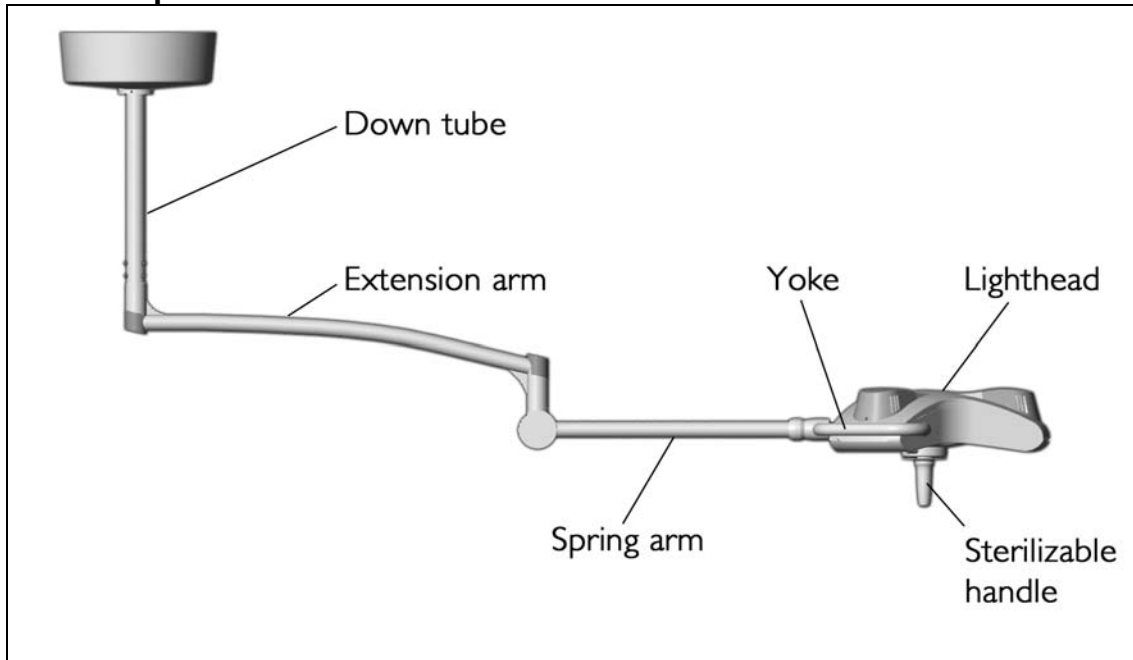


Figure 1 Main components

Single Ceiling Version

Consists of one AIM-100™ light head attached to a suspension system.

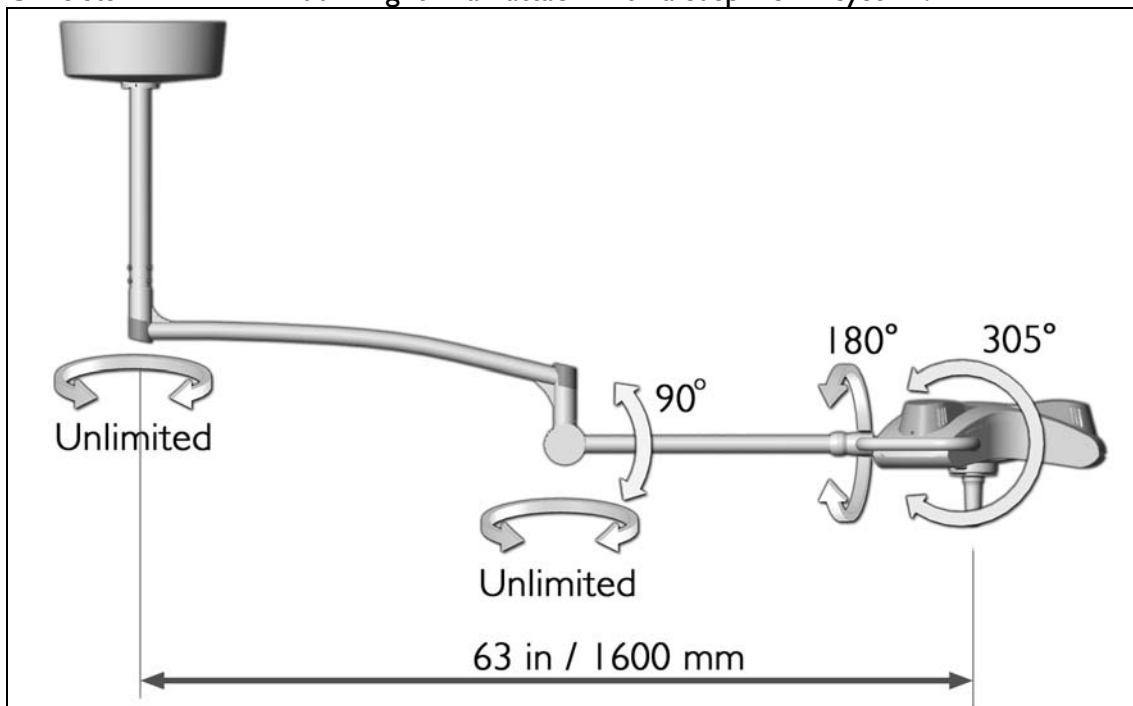


Figure 2 Single Ceiling Version

Double Ceiling Version

Consists of two AIM-100™ light heads attached to separate arms, but with a common down tube secured to the structural ceiling.

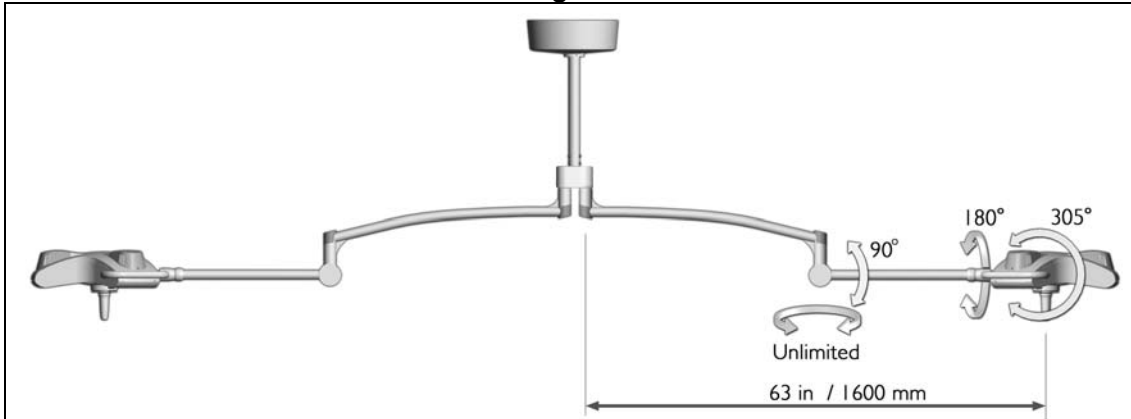


Figure 3 Double ceiling version

Wall Mount Version

Consists of one AIM-100™ light head attached to a suspension system. The suspension system is attached to a wall mount, which is secured to the wall.

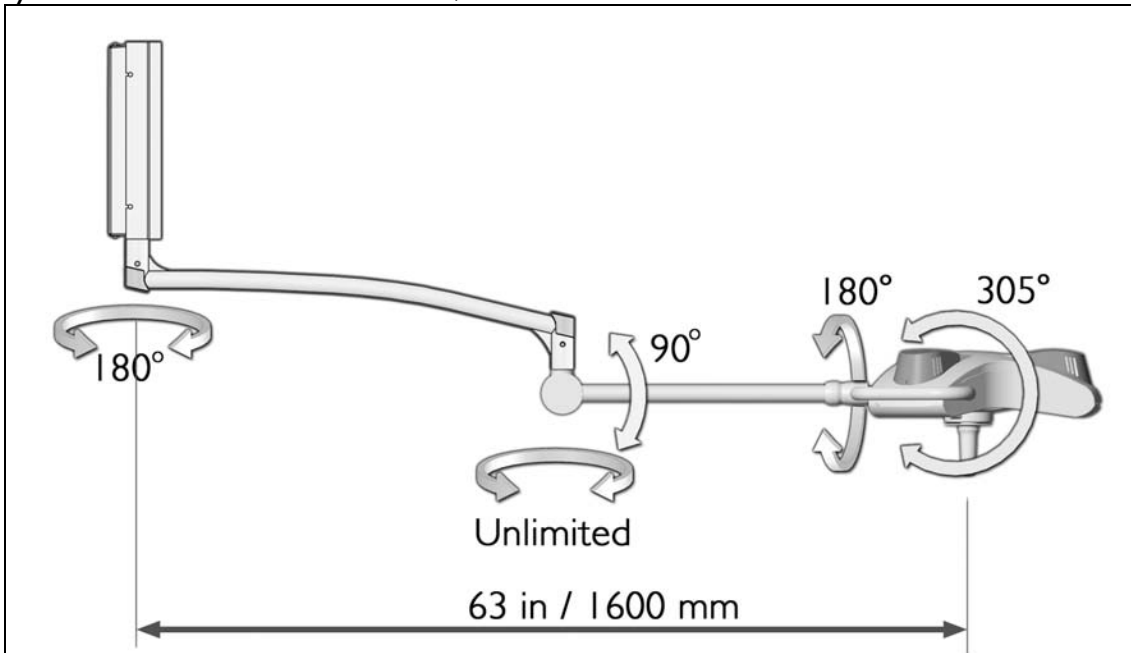


Figure 4 Wall mount version

Range of motion – Ceiling version

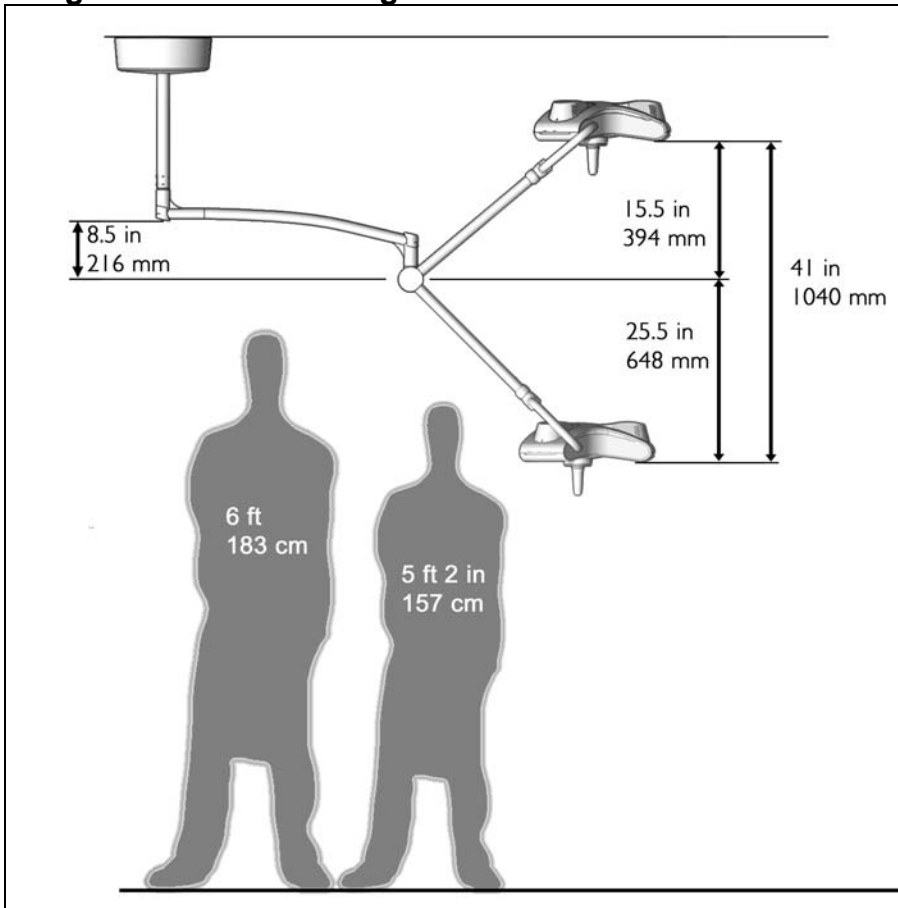


Figure 5 Vertical range of motion.

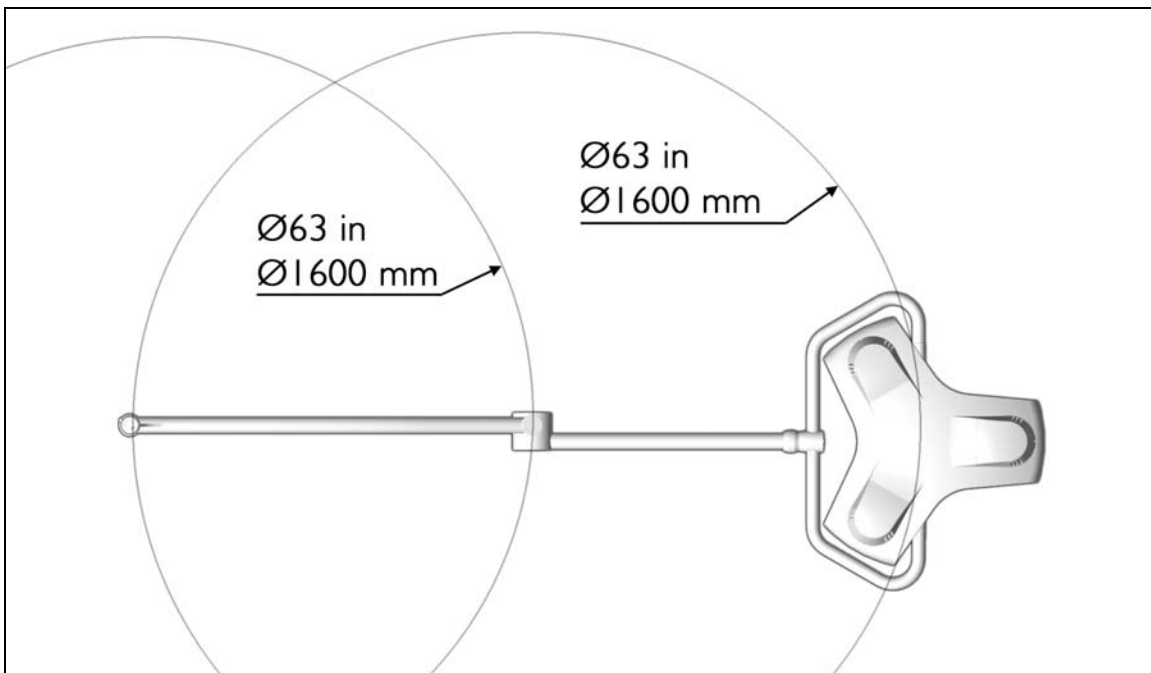


Figure 6 Horizontal range of motion (unlimited rotation in both axes)

Floor Stand Version

Consists of one AIM-100™ light head attached to a mobile suspension system. The suspension system consists of the following:

- A mobile stand with an upright pole. The stand has castors to facilitate movement.
- A spring arm between the upright pole and the light head.
- A dual-sided yoke between the spring arm and the light head.

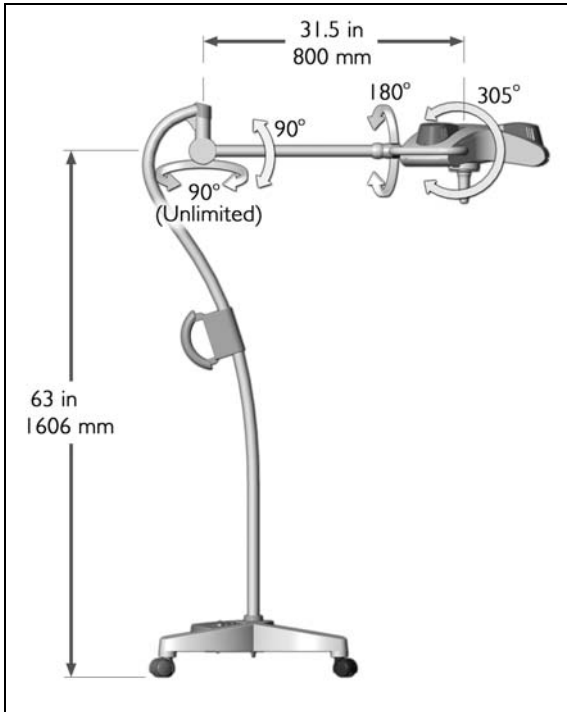


Figure 7 Floor Stand Version







Light Head



The light head consist of three special light assemblies. These can be adjusted to merge at different distances by twisting the handle. The housing is designed to facilitate the proper cooling of the bulb, while maintaining a low surface temperature.

Operation

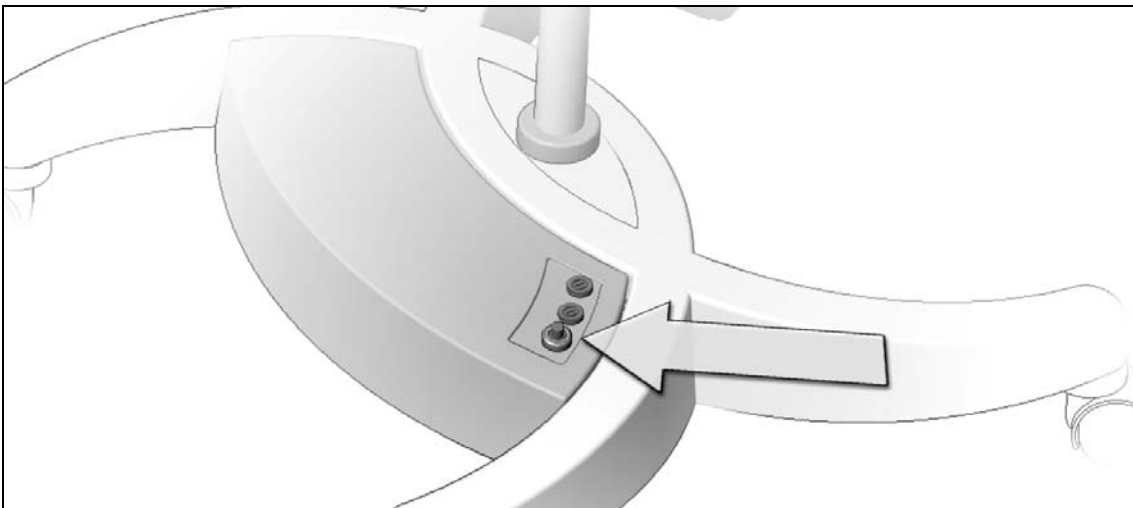
Safety Precautions

	WARNING Risk of burn	During normal operation do not touch any optical surfaces (e.g. bulb, reflector, window).
	WARNING Fire hazard	Do not obstruct any vents or openings.
	WARNING	Do not use the fixture if, for any reason, it does not appear to work properly. Instead, alert your Maintenance Department, or Burton, of observed deficiencies and have them corrected before continuing to use the light.
	CAUTION	Do not look directly into the light.
	CAUTION	In the unlikely event of a bulb exploding, discontinue the use of the light immediately. To avoid shards falling out, do not use or move the light until it has been thoroughly cleaned inside.
	TIPS	If a bulb burns out during a procedure, continue to use the fixture until a replacement can be made. But be aware that the failed bulb will cause added voltage, which will eventually lead to premature burnout of the remaining bulbs.

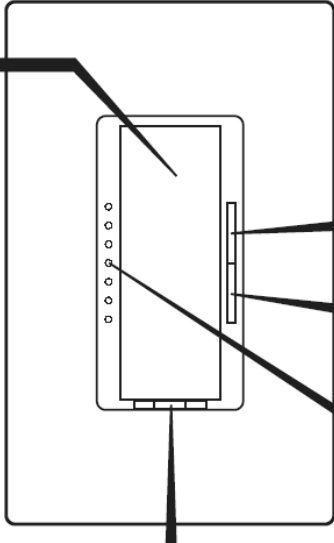
Applying Power

For the wall and ceiling versions, the main power on-off switch is located on the wall plate.

For the floor stand version, the main power on-off switch is located on the floor stand base. It is operated by lightly stepping on it.




Using Dimmer (Optional, for 120V version only)

Tap Switch Options <ul style="list-style-type: none">• Tap once - Lights adjust smoothly to level set by rocker.• Tap again - Lights adjust smoothly to off.• Tap twice quickly - Lights adjust rapidly to full.• Press & hold - LED flashes. Activates 10-second gradual fade-to-off.	 <p>The diagram shows a vertical control panel. On the left is a rocker switch with a vertical line indicating its position. To the right of the rocker are two buttons: the top one is labeled 'Press to brighten' and the bottom one is labeled 'Press to dim'. Below these buttons are five small circles representing LED light level indicators. A line points from the text 'LED light level indicators' to these circles.</p>
IMPORTANT NOTICE: FASS™ - Front Accessible Service Switch - to replace bulb, power may be conveniently removed by sliding FASS switch to the left. For any procedure other than routine lamp replacement, power must be disconnected at the main electrical panel.	

Sterilization Protocol – Handle

The AIM-100™ handle assembly is made from high-temperature resistant Noryl™ plastic. It should normally withstand up to 2500 sterilization cycles according to the procedure below, without deterioration. If the handle starts cracking or flashing it should be replaced. The most important factor for keeping the handle from wearing out is not to exceed the temperature limit mentioned in the autoclave procedure. See page 22 for replacement information.

If there is any foreign matter on the handle it should be cleaned thoroughly prior to sterilization.

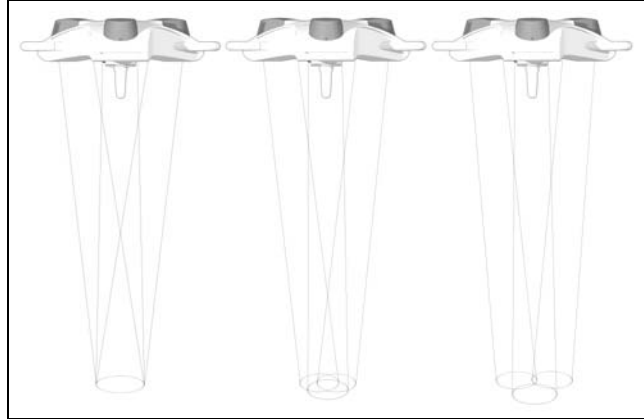
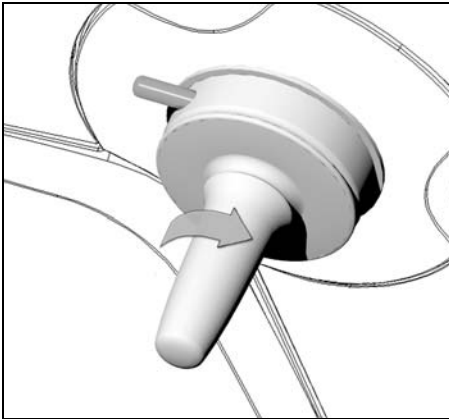
 <p>The image shows a 3D rendering of a white plastic handle assembly. It consists of a long, tapered handle with a wider, flared base that has a textured, knurled top surface.</p>	<ol style="list-style-type: none">1. Place the handle in the autoclave.2. Set the autoclave cycle for 270°F (132°C), pre-vacuumed cycle.3. Set the autoclave cycle time for 3-minutes, turn the sterilizer on and wait for the process to be completed.4. Remove the handle and place it in use, or transport and store it in a sterile environment pending use.
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Maneuvering the Light Head

If a procedure is to be performed which requires a sterile field, the handle must be sterilized or sterile disposable covers for the cover must be used. At no time during the procedure may any other part of the fixture be touched. The AIM-100™ arm system and light head attachment were designed so the light head could be positioned at any location within its range of motion using only the handle.

Adjusting the Light Pattern

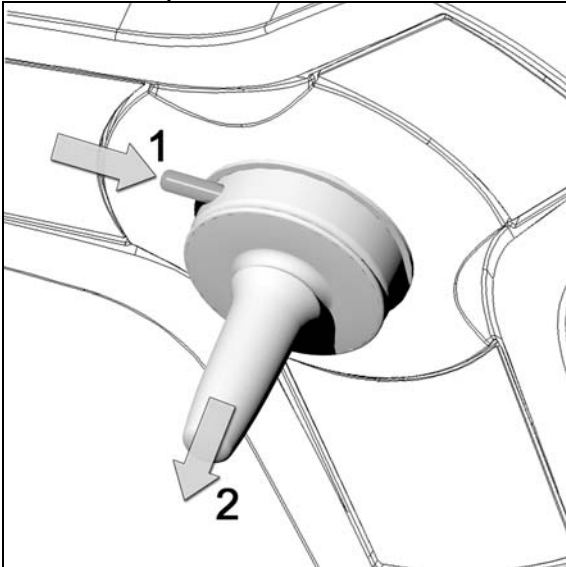
A slight twist of the handle will adjust the beam pattern so that the individual light beams from the three bulbs can be merged at the work surface. To get the maximum intensity, the light beams should be merged completely. However, in many cases it is preferable to have the light beams slightly offset to achieve a larger spot.



Attaching / Detaching the Handle

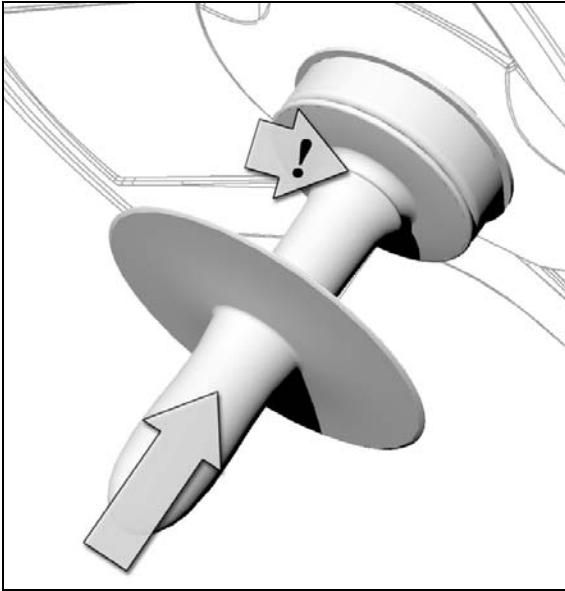
The handle can be removed for cleaning and sterilization by pushing the plunger (1) located between the handle flange and housing and pulling the handle down (2).

To reinsert, push the handle into the hole and make sure it 'clicks' into position.





Using Sterile Disposable Covers for the Handle

The handle is designed to fit sterile disposable covers (Burton part #0008100PK). To attach the cover to the handle, simply slip it on to the handle and make sure it engages with the small flange (indicated on illustration below) on the handle.



Maintenance

	WARNING	<p>The proposed maintenance schedule is a suggestion. Depending on the use of the product and the operating environment, the required maintenance may not be limited to this. It is the responsibility of the user to service and maintain the product as needed. Failure to do so may present risk of serious or fatal injury.</p>
	WARNING	<p>If the equipment is not functioning properly, do not attempt “quick fixes” with tape, wires etc. If the solution cannot be found in this manual Burton should be contacted.</p>





Maintenance schedule

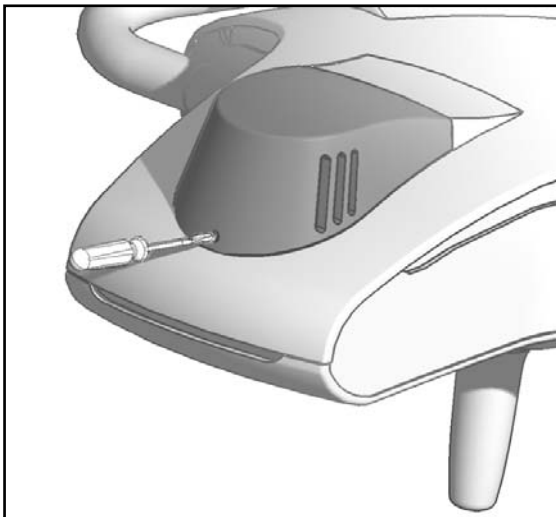
Weekly	<ul style="list-style-type: none"> • Check that the light is easy to move in its range of movement, and that it holds its position without drifting • Check that all components appear secure
Every 1300 hrs ¹ of use or 12 months	<ul style="list-style-type: none"> • Remove top housing; clean accessible parts • Check and, if needed, adjust friction between light head and yoke shaft
Every 1800 hrs ² of use or 24 months	<ul style="list-style-type: none"> • Check and, if needed, adjust spring arm tension • Clean optics • Check and tighten bolts in ceiling / wall

¹ Equals ~3.5 hours use per day for one year. (Or ~7 hours use per day for 6 months)

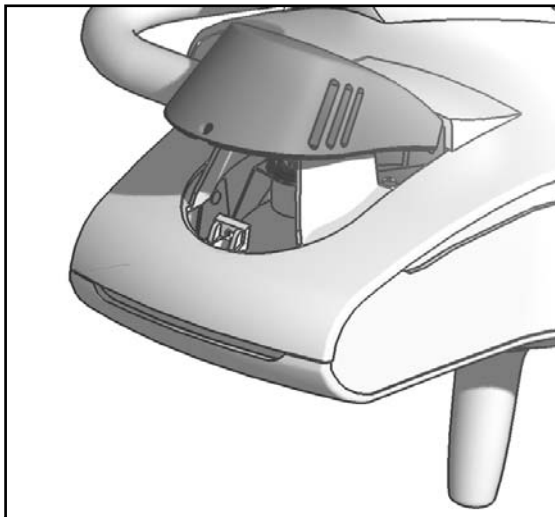
² Equals ~2.5 hours use per day for two years. (Or ~7 hours use per day for 9 months)

Changing Bulbs

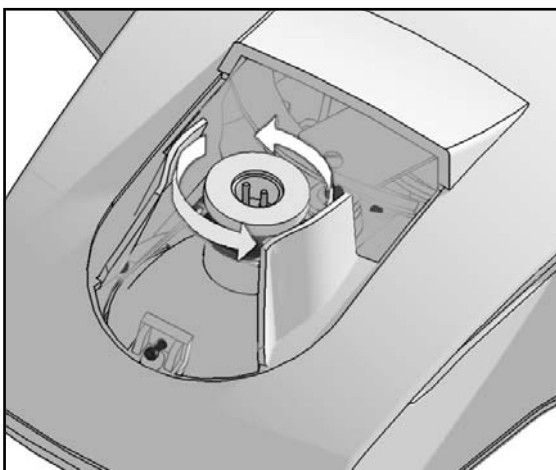
	WARNING Risk of burn	Avoid replacing lamps when the fixture is hot. Wait at least 30 minutes for it to cool.
	WARNING Fire hazard	Replace bulbs with same type and rating. Purchase bulbs from a Burton-authorized distributor. (Halogen, 35W (37W) IRC, 12 volt, bi-pin, GY6.35 base. Burton part # 1017111.)
	CAUTION Electrical shock	When replacing lamps, make sure that the power is off.
	NOTE	Do not touch the bulb with bare hands, as oil from skin will cause premature failure. Use gloves or a dry cloth.



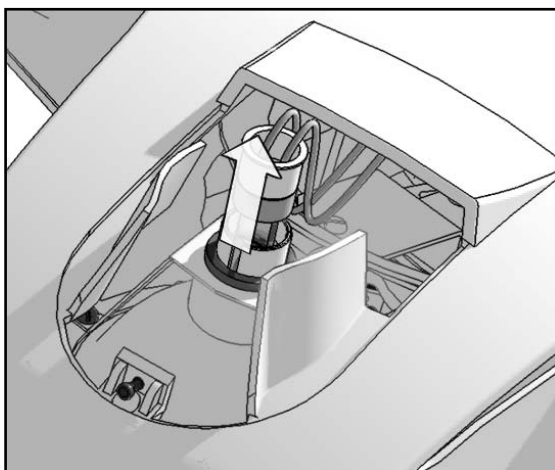
1. Use a small Phillips screwdriver to loosen the retaining screw at the pod.



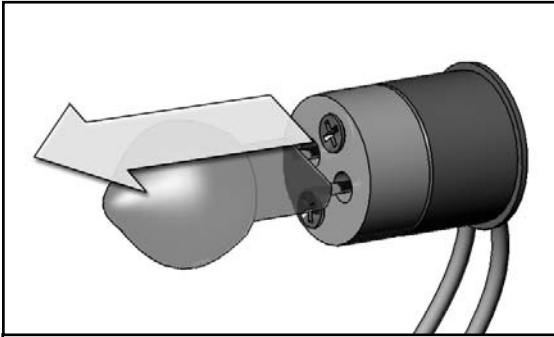
2. Remove the pod.



3. Unscrew the bulb retaining ring



4. Pull the socket with the bulb out by pulling the wires.



5. Use gloves or a dry tissue when replacing the bulb. Pull it straight out of the socket.

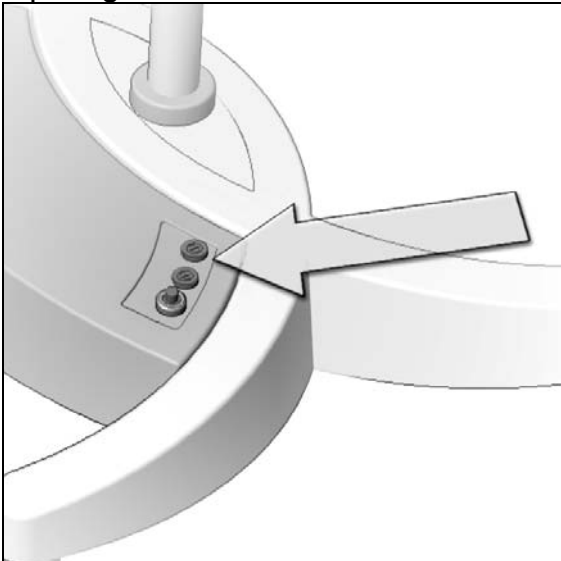
6. Insert the new bulb in the opposite order. Do not overtighten the screws holding the pods.

Replacing Fuses

	WARNING Fire hazard	Replace only with correct fuse rating. For 120 V version: T, 3A, 250V. For 240 V version: T, 1A, 250V. For 100 V version: T, 3A, 250V.
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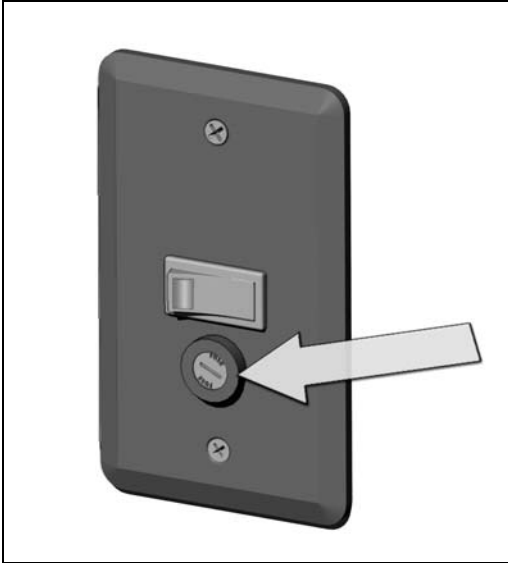
Floor Stand Version

The fuse holder is located in the floor stand base. Unplug the power cord before replacing fuses. Use a flat screwdriver to open the fuse holder and replace the fuse(s).



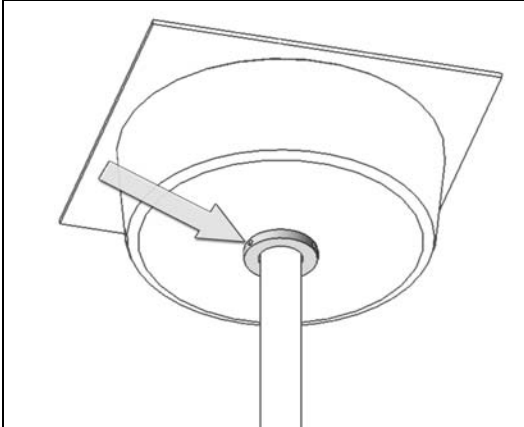
Ceiling Versions 120 V

The fuse holder is located on the wall switch. Disconnect power to the lamp circuit at the main breaker before replacing the fuse. Use a flat screwdriver to open the fuse holder and replace the fuse.





Ceiling Versions 100 V and 240 V

For the 100 V and 240 V ceiling versions, the fuse holder is located adjacent to the terminal block on the ceiling casting. To access it, the ceiling dome must be removed. This is done by loosening the two set screws on the locking ring (indicated by the arrow). Replace fuse and assemble in the opposite order.



Normal Cleaning

	WARNING Electrical shock	For all cleaning work, power off the equipment and secure it from being switched on again. Make sure that no cleaning fluid runs into the equipment.
	NOTE Damage to equipment	Apart from mild detergents and alcohol, no other cleaning agents or chemicals should be used on the product.


A soft cloth dampened with a mild detergent solution may be used for basic cleaning of all surfaces on the AIM-100™. In some cases, a soft cloth soaked in denatured alcohol may be used for stubborn stains.

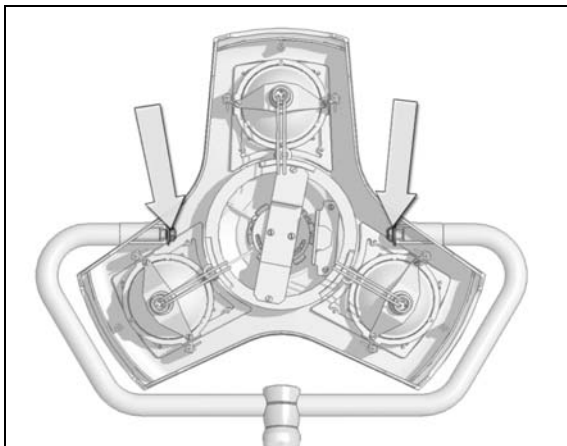
Extensive Cleaning

For more thorough cleaning of the light head, the top housing should be removed. This is done by first removing the pods to get access to the 3 screws holding the top and bottom housing together. (Steps 1 & 2 in the procedure for replacing bulbs). Remove the screws and lift the top housing off. Use a soft cloth to wipe the corners and surfaces hidden when the parts are assembled. Be careful not to bend any components inside the light head. Damaging parts may affect the operation and light output.

Adjusting Light Head Rotating Friction

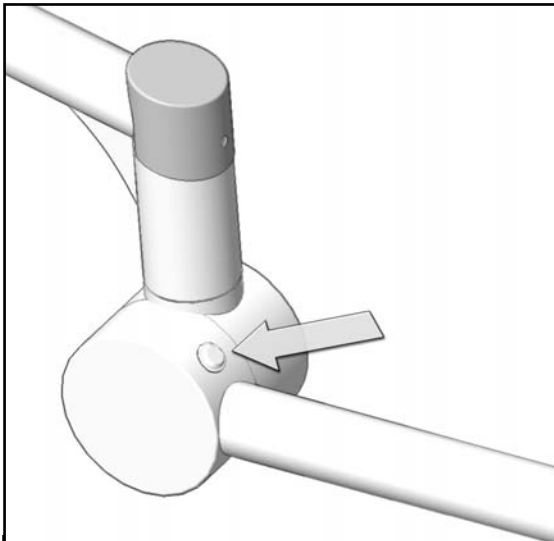
If the light head doesn't hold its position when it is rotated around the two shafts going into the housing, an inside adjustment is required. This is done by first removing the pods to get access to the 3 screws holding the top and bottom housing together. (Step 1 & 2 in the procedure for replacing bulbs). Remove the screws and lift the top housing off. A nut on each shaft will be accessible. Use a wrench to tighten the nuts. Rotate the light head about the shaft to verify correct friction and then re-assemble the housing.

	CAUTION	Do not over tighten! This may cause the housing to break. Very little tightening is required to get enough friction.
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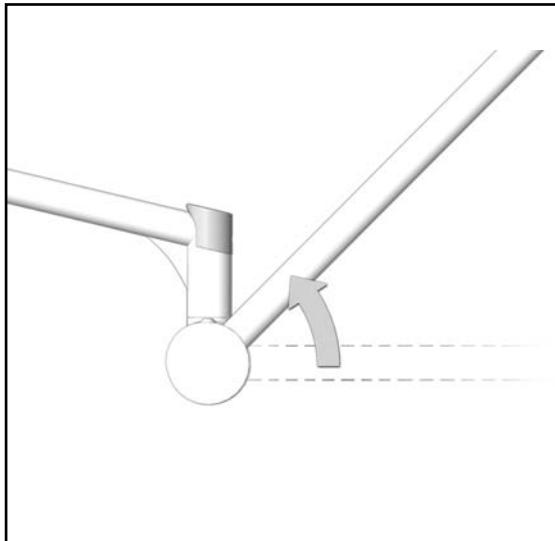


Adjusting Arm Tension

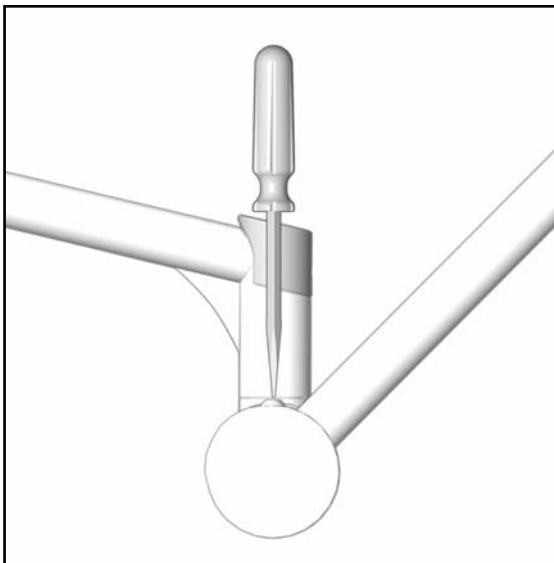
If the spring inside the articulating arm is too strong or weak, the light head won't hang properly when positioned and released by the operator. It will drift up or down, depending on spring setting. To adjust the spring tension:



1. Remove the cap



2. Pull the spring arm up about 45° until the hole is at the top and the screw is visible through the hole.



3. Insert a slotted-screwdriver in hole

- If the spring arm drops, the spring force is too low. The adjusting screw must be rotated counter-clockwise.
- If the spring arm goes upward, the spring force is too high. The adjusting screw must be rotated clockwise.

Technical Data³

Classifications	
Type of protection against electric shock	Class I
FDA classification	Surgical lamp sec. 878.4580. Class II.
CISPR II classification	Group 1, Class A
Allowable leakage current	Does not exceed 200 μ a
Reliability of earth protection	Does not exceed 0.1 ohm
Mode of operation	Continuous
Protection against explosion hazards	Not to be used in presence of flammable anesthetics
Protection against hazardous parts and ingress of liquids	IPX0. Not protected against the ingress of fluids.
Degree of mobility	Ceiling and wall mount versions: permanently installed. Floor stand version: Mobile.
Approvals	All versions: UL60601-1, C/UL, IEC60601-2-41 In addition for 240V version: MDD 93/42/EEC IEC60601-1-2
Standards	Meets the requirements for surgical task lighting in ANSI/IESNA RP-29-95 Lighting for Hospitals and Health Care Facilities.
EU-conformance	
The CE mark on this product (240 V version) indicates it has been tested to and conforms with the provisions noted within the 93/42/EEC Medical Device Directive.	
Authorized European Representative:	Luxo ASA Drammensveien 175, N-0277 Oslo, Norway Tel: +47 22574000, www.luxo.com
CE classification	Class I
Electrical	
Supply connections	100, 120 or 240 V ac, 50/60 Hz
Power consumption	116 W (232 W for Double ceiling version)
Bulb types	Halogen, 35W (37W) IRC, 12 volt, bi-pin, GY6.35 base. Burton part # 1017111.
Bulb life	2000 hrs ⁴
Fusing	120 V versions: T, 3 A, 250 V, 1/4 x 1 1/4 in 240 V versions: T, 1 A, 250 V, 5 x 20mm 100 V versions: T, 3 A, 250 V, 1/4 x 1 1/4 in The T indicates Time lag (i.e. slow blow fuses) There are 2 fuses in the floor stand and the double ceiling version. There is 1 fuse in the single ceiling and the wall version.
Power cord (floor stand version)	120 V version: Hospital grade, SJT 18/3C, Harmonized HD-21, length 100 in (2,54m) 100 and 240 V versions: Detachable,

³ All specifications subject to change without notice.

⁴ Average lifetime for bulbs running continuously.

	IEC60320C13, length: 2,5 m.
Transport and Storage Conditions	
Ambient temperature	0 - 70°C (32 - 158°F)
Relative humidity	10 - 75% (no condensation)
Atmospheric pressure	500 - 1060 hPa
Operation Conditions	
Ambient temperature	10 - 30°C (50 - 86°F)
Relative humidity	30 - 75%
Atmospheric pressure	700 - 1060 hPa
Weights and Dimensions	
Single ceiling version	33.6 lbs, (15,3 kg)
Double ceiling version	70 lbs (32 kg)
Wall mount version	40 lbs (18 kg)
Floor stand version	34.8 lbs (15,8 kg)
Light head including yoke	9,6 lbs (4,4 kg)
Light head diameter	20 in (51 cm)
Range of motion:	See illustrations in Technical Description.
Optical Performance/Operating Characteristics	
The optical data are nominal values (unless specified otherwise) based on measurements done according to the IEC 60601-2-41 standard on the rated voltage. Please be aware that lights are very sensitive to voltage variations, and that this can affect the light performance and bulb life significantly. Also the performance of the individual bulbs has a natural variance due to their manufacturing process.	
Central Illumination at 1 m (39.4") , E _c	65,000 lux (6000 fc)
Central Illumination at 24" (0.61 m) , E _c	160,000 lux (14800 fc)
Light Field Diameter, d ₁₀	9.7 in (246 mm) ⁵
Light Field Diameter, d ₂₀	7.3 in (185 mm) ³
Light Field Diameter, d ₅₀	4.5 in (114 mm) ³
Light distribution ratio d ₅₀ /d ₁₀	0.5
Total Irradiance, E _e	380.0 W/m ² (0.04 W/cm ²)
Depth of illumination	47 in (1,2 m)
Color temperature	3700°K
CRI (Color Rendering Index)	97 R _a
R9 (Color Rendering of a strong red color that is important for medical purposes)	95 R ₉
Focus range	24in (0,61m) to 39in (1m)
Remaining Illuminance With Two Masks	21 % of E _c
Remaining Illuminance With One Tube And Two Masks	32 % of E _c
Remaining Illuminance With One Mask	16 % of E _c
Remaining Illuminance With Tube (Deep Cavity)	93 % of E _c
Remaining Illuminance With One Tube And One Mask	21 % of E _c
Cavity Shadow Ratio	0.21 T
Ecological characteristics	
Burton Medical Products cares about the ecological environment, and in the design	

⁵ The Light Field Diameters are given for a light beam that is merged for maximum central illuminance. Since the light beam is adjustable, the Light Field Diameter can be increased by offsetting the merging of the beams. See more about this in the section "Adjusting the light pattern" on page 9.

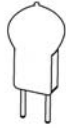
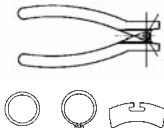

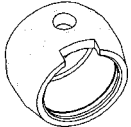



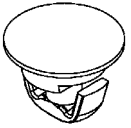

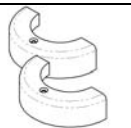

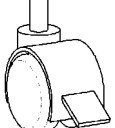

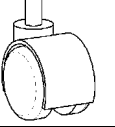





and manufacturing of our lights we strive to minimize the ecological impact.	
Materials	No hazardous materials are used in the production of the AIM-100™.
Plastic	The plastic parts are made from an ECO-compliant grade of plastics. This means that no brominated or chlorinated substances are used in the production of the raw-material.
Recycling	The plastic parts are marked with the material type to accommodate easy sorting for recycling.
Disposal	Although no hazardous materials are used in this product, public laws may contain special specifications with regard to disposal. To avoid damage to the environment and health, relevant authorities should be consulted before disposing of the product.

Troubleshooting Guide

Symptom	Test What?	Corrective Action
No light output	Power on?	Turn power switch on at wall (ceiling / wall mount versions). Turn power on at floor stand base (Floor stand version)
	Fuse(s)	Visually inspect fuses, check continuity with meter.
	Continuity of wiring from transformer to light head	With power disconnected, use ohmmeter to check continuity from transformer secondary to light bulbs. Check integrity of each connection point.
	Bulbs	Although unlikely, if the light is left on and unattended for a long time, all the bulbs can go out sequentially. Replace bulbs.
Poor light output	Voltage into transformer	Verify correct mains voltage and proper transformer wiring connections
	Voltage out of transformer	Verify correct secondary voltage (> 12,6 V nominal under load).
	Bulb	Verify correct bulbs.
Electromagnetic Interference (EMI)		Generally, EMI is not an issue with this type of product (incandescent lighting fixture with magnetic transformer). However, if you suspect this product is causing interference, please contact Burton.
Bulb group not focused	Output pattern	Contact Burton for adjustment
Arm drift up or down	Arm balance	Follow instructions under Adjusting Arm Tension on page 18
Arm drift sidewise	Installation is not plumb	The downtube (ceiling versions) or wall mount must be vertical. The services of a contractor might be required to correct an out-of-plumb condition.

Burton will make available to the purchaser, or his representative, technical material, including circuit diagrams, parts lists and/or component descriptions, which will assist the user's qualified personnel in repairing those parts of this equipment designated by Burton as repairable.

Replacement Parts

Picture	Description	Part Number	Picture	Description	Part Number
	Bulb (Halogen, 35W (37W) IRC, 12 volt, bi-pin, GY6.35 base)	1017111 (single bulb) 1017111PK (3 pack)		Shaft accessory package	1017044
	Fuse 120 /100 V versions: T, 3 A, 250 V, 1/4 x 1 1/4 in	0002972		Collar	1017045
	Fuse 240 V version: T, 1A, 250V, 5x20mm.	1017229		Handle half (2 halves make up one handle)	1017049
	Window	1017042		Cap handle	1017050
	Reflector	1019000		Base accessory package	1017052
	Disposable Cover	0008100PK (25 pack)		Castor with brake	1017053
	Handle	1017040		Castor no brake	1017054
	Brake screw	1017046		Cap	1017047
	Key	1007304		Transformer assembly	1017655
	Bushing, for yoke	1017206			

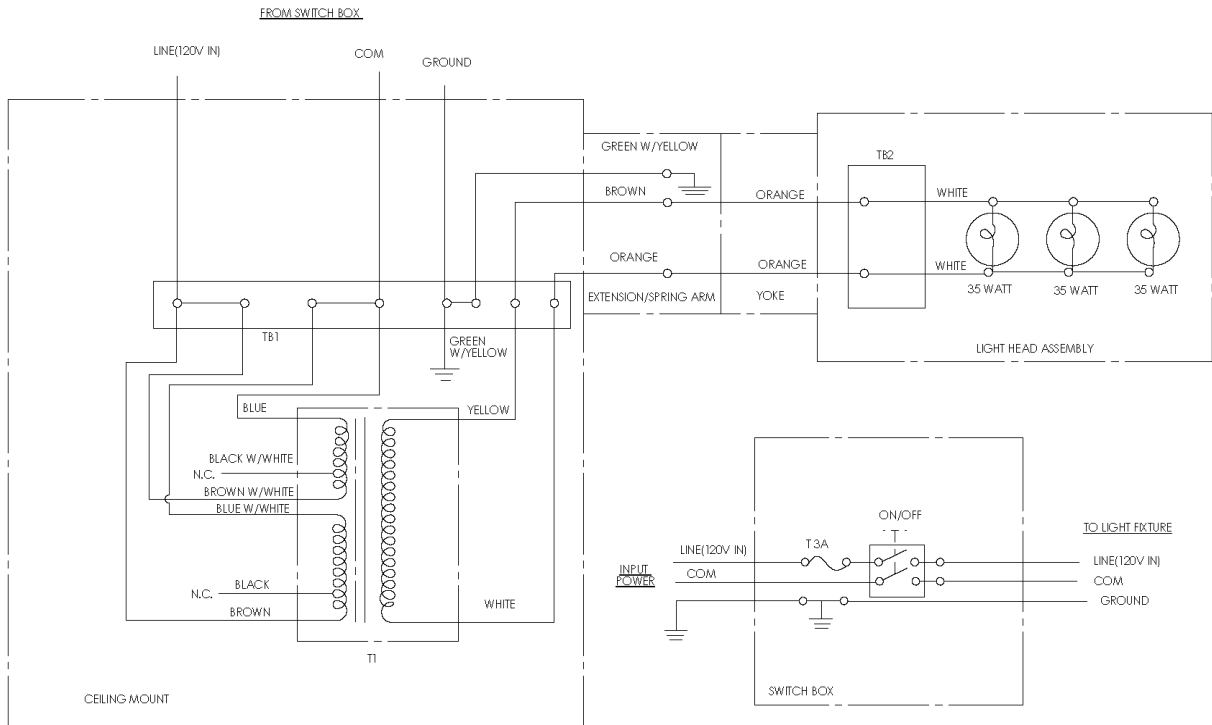
To order replacement parts, please call Burton Customer Service at 800-444-9909 or 818-701-8700.

Warranty Information

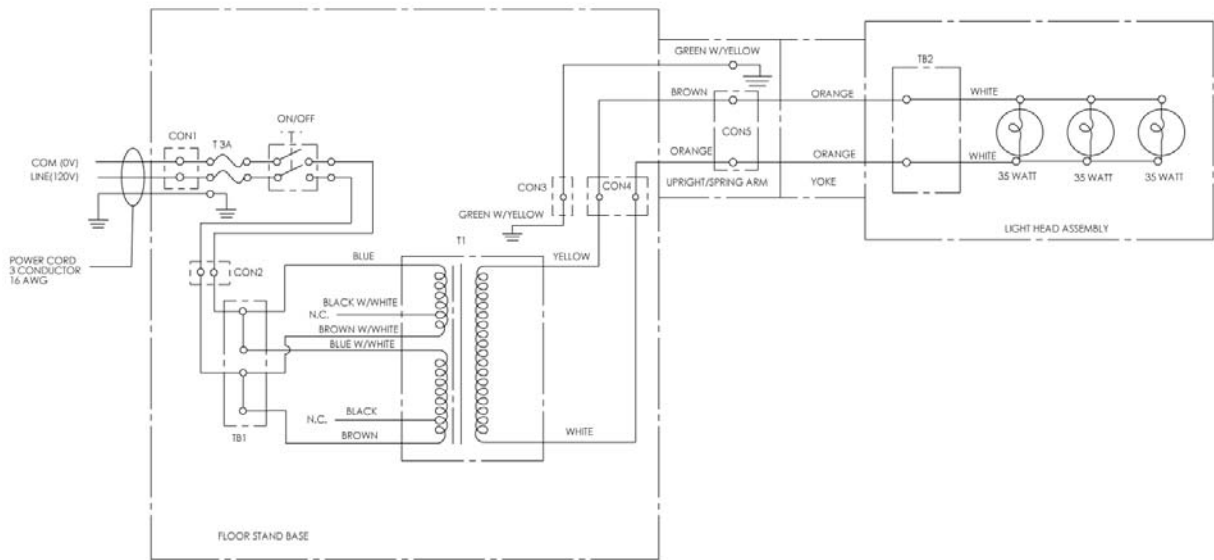
Burton Medical Products offers a 5-year (parts and labor) warranty on the AIM-100™. To validate your warranty and ensure receipt of important safety updates, please complete and mail back within 45 days the enclosed warranty card. You may also validate your warranty online at www.burtonmedical.com within 45 days of purchase to receive a free gift (see details online). All personal information will remain confidential.

Electrical Wiring Diagrams -120 V versions

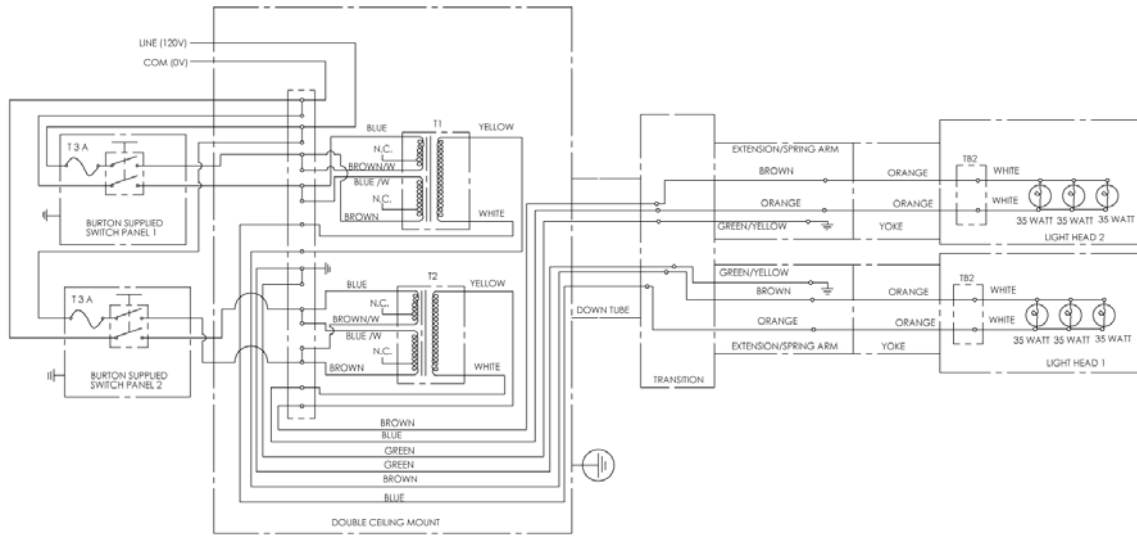
Single Ceiling 120 V Version



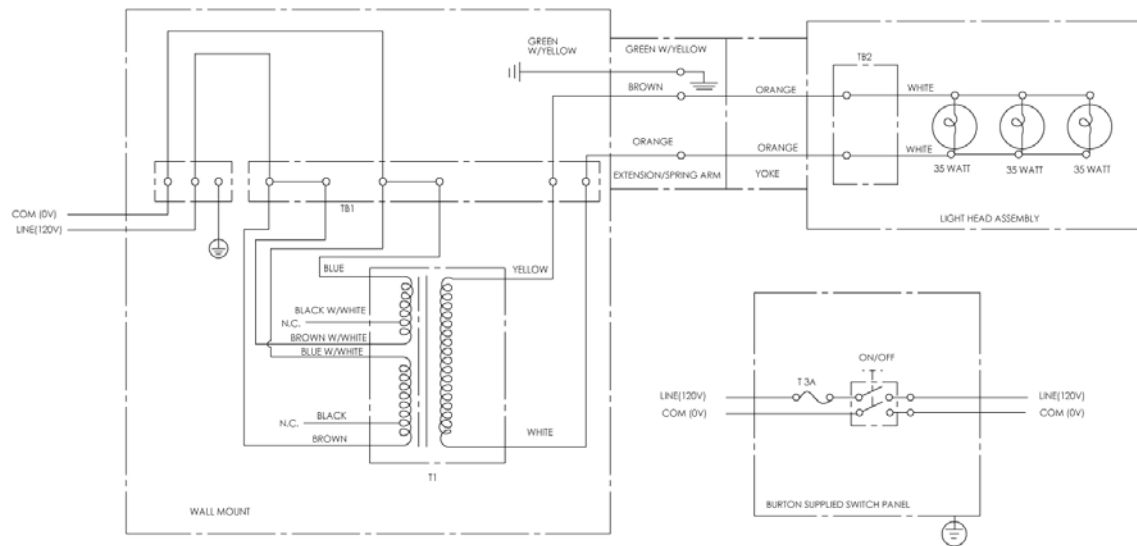
Floor Stand 120 V Version



Double Ceiling 120 V Version

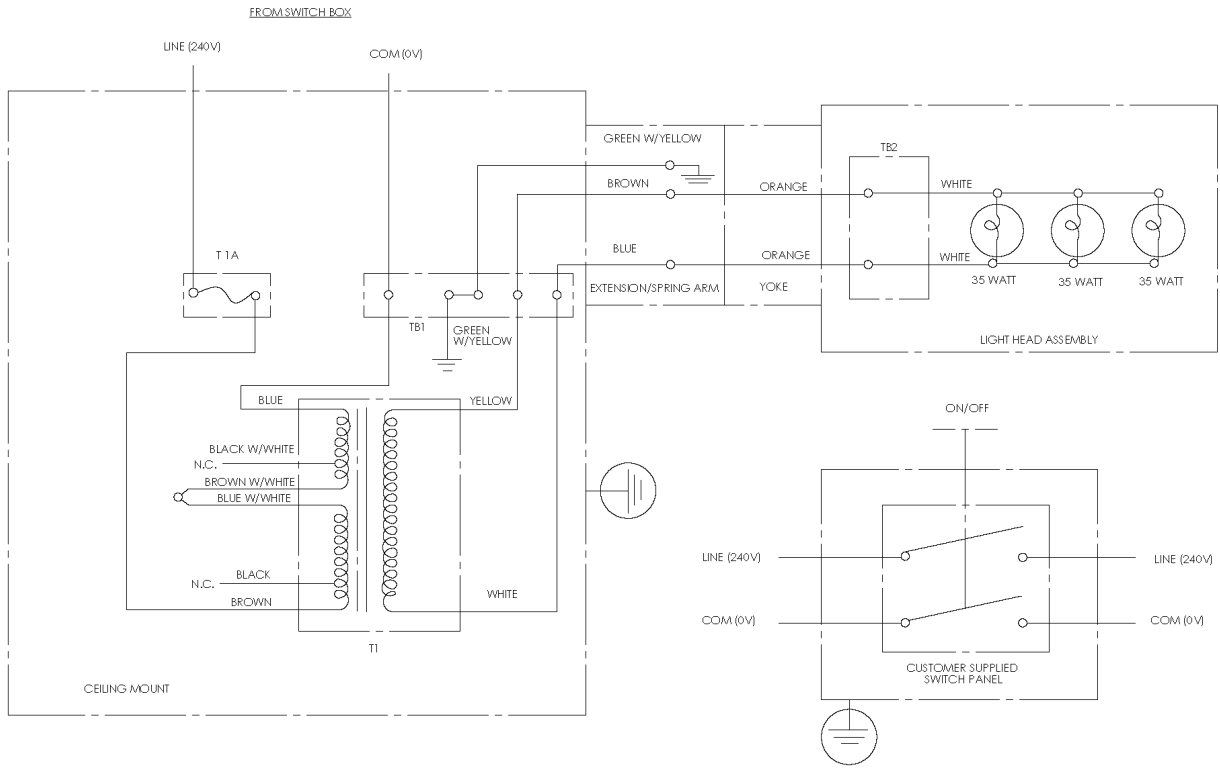


Wall mount 120 V Version

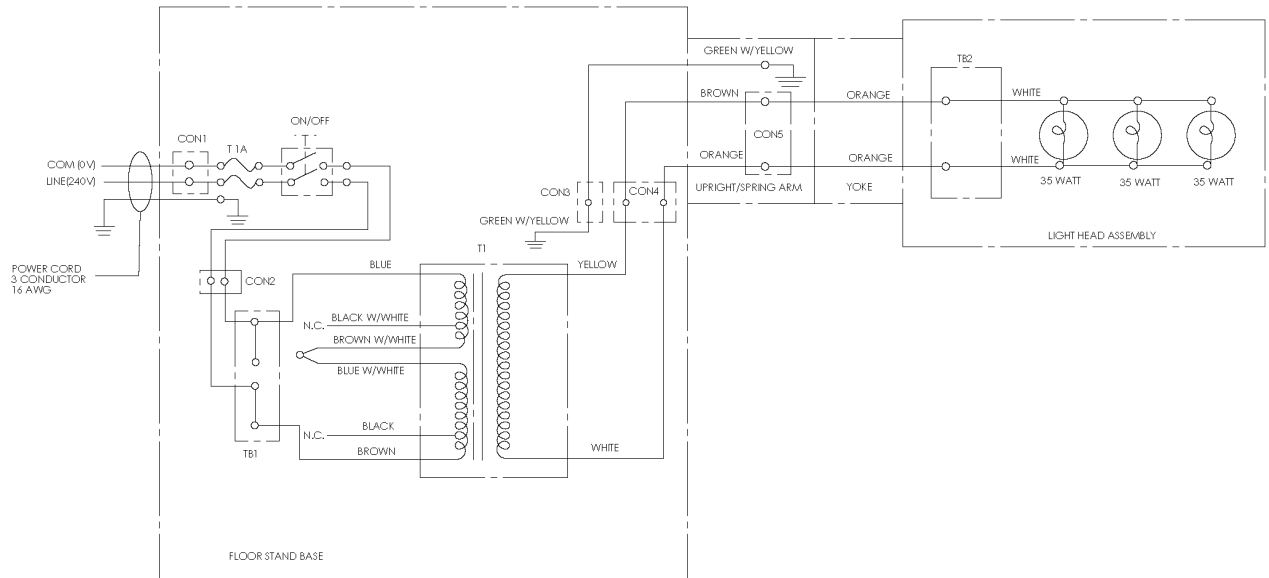


Electrical Wiring Diagrams -240 V versions

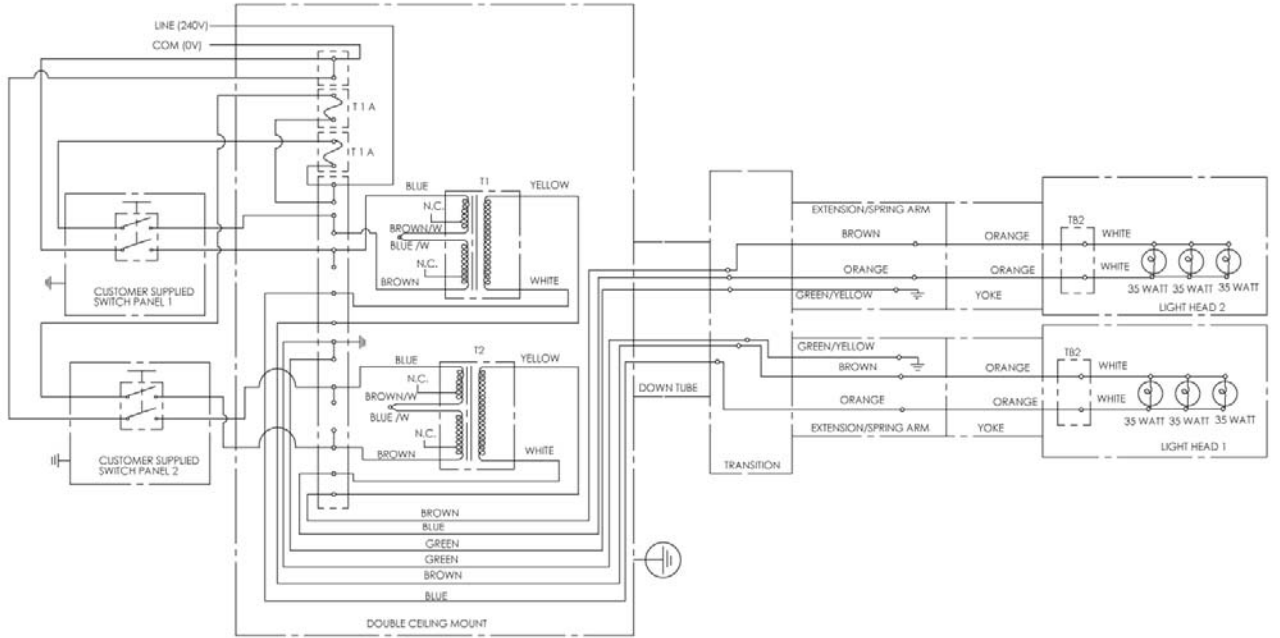
Single Ceiling 240 V Version



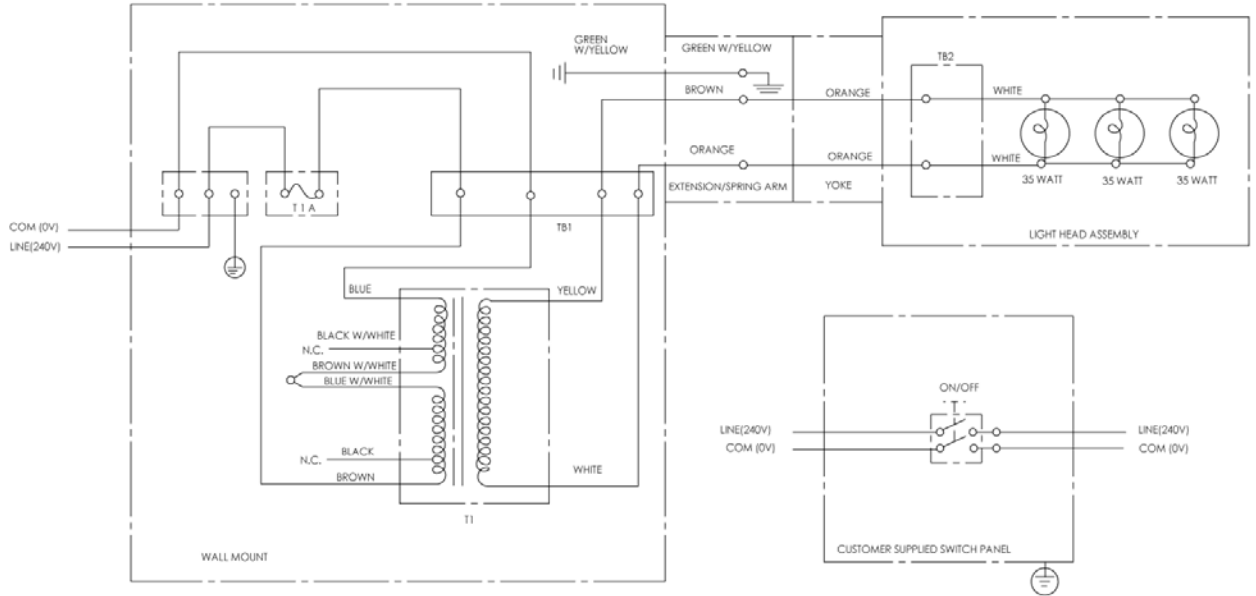
Floor Stand 240 V Version



Double Ceiling 240 V Version

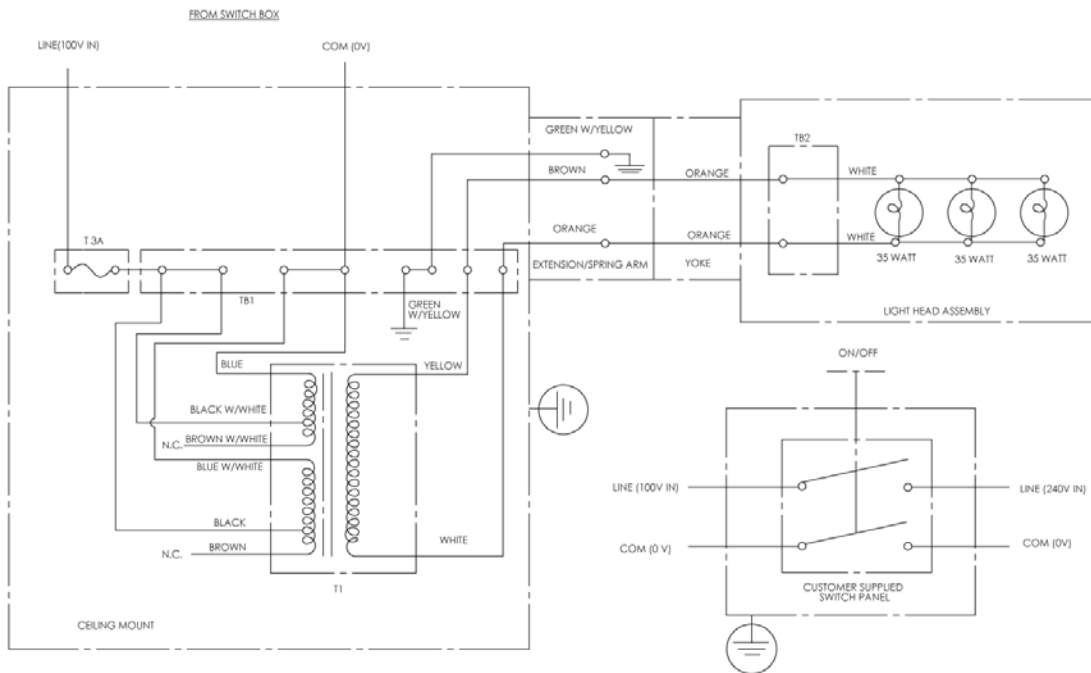


Wall mount 240 V Version

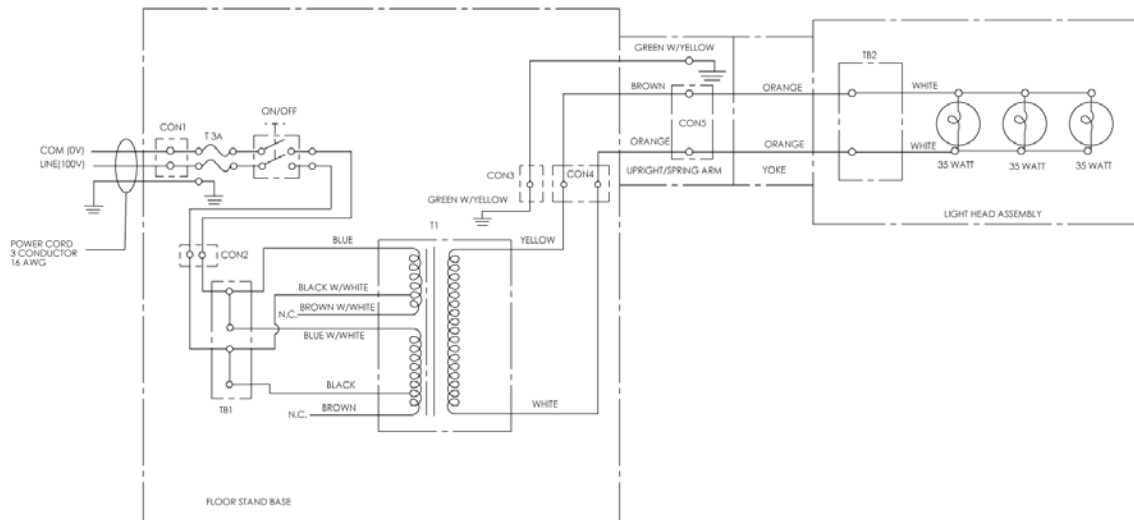


Electrical Wiring Diagrams -100 V versions

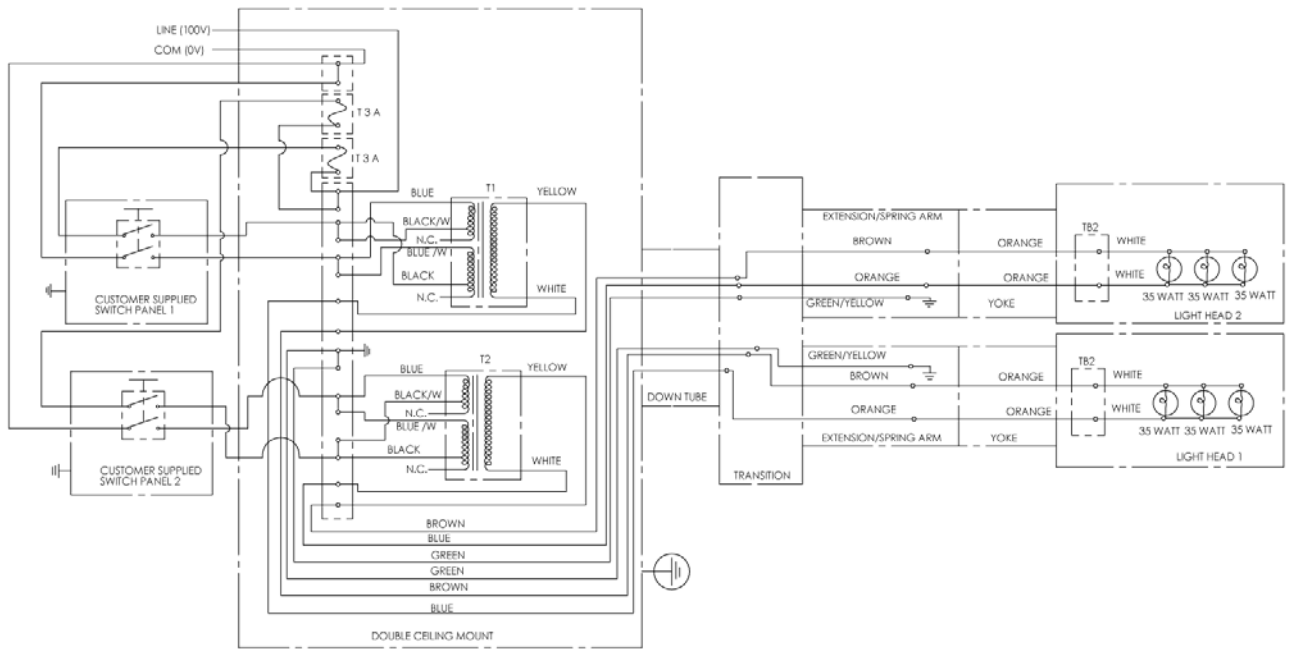
Single Ceiling 100 V Version



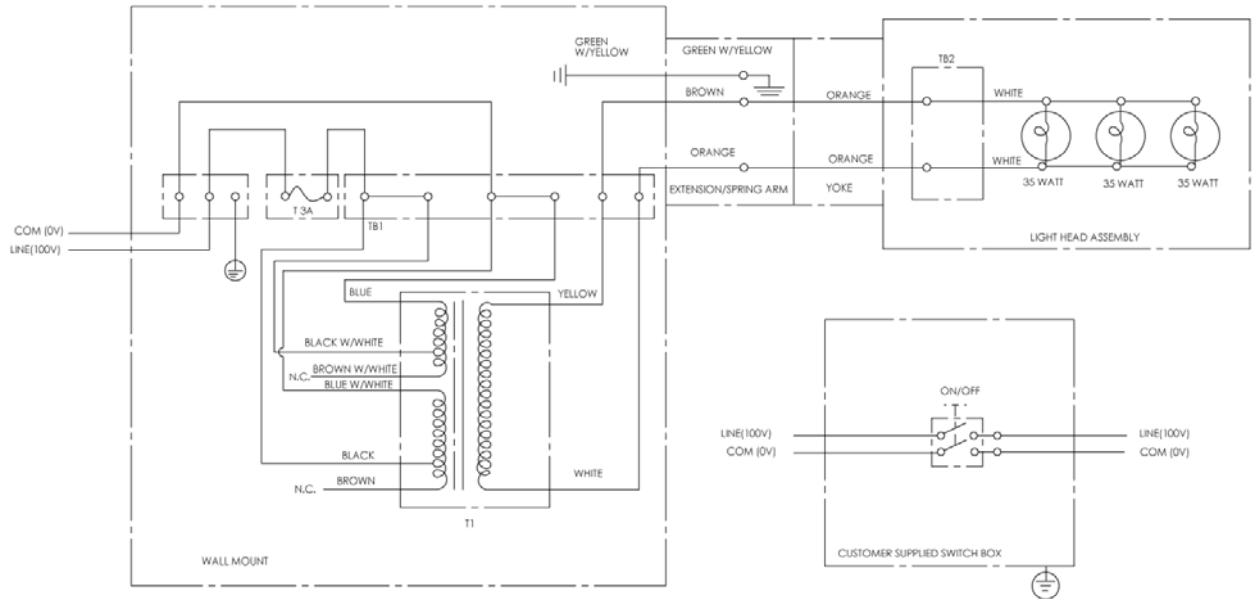
Floor Stand 100 V Version



Double Ceiling 100 V Version



Wall mount 100 V Version



burton

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The Right Light