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## TL5000 Surgical Light Series Data Sheet





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TL5000 / 3000 Surgical Light products' technical features described in this data sheet are focusing on the surgical lighting parameters. Those are defined by the different light head variants. Therefore, the technical specs are shown for the different light head variants (e.g. TL3500, TL3300 etc).

### FEATURES

Light Head Variants	TL5500	TL5510	TL5520	TL5300	TL5310	TL5320
Adaptive Light Control (ALC)	x	x	x	x	x	x
Adaptive Light Control Plus (ALC Plus)	-	x <sup>1</sup>	x	-	x <sup>1</sup>	x
Sterile Light Control (SLC)	-	-	x	-	-	x

### LIGHTING DATA

Light Head Variants	TL5500	TL5510	TL5520	TL5300	TL5310	TL5320
Illumination Level at 1.0 m (Lux)	160,000			140,000		
Illumination Level at 1.2 m (Lux)	Max. 100,000	Max. 160,000 <sup>1</sup>	Max. 160,000	Max. 90,000	Max. 140,000 <sup>1</sup>	Max. 140,000
Is there a visual influence on illumination level when adjusting pattern size?	-					
At 1.0m Distance	-					
At 1.2m Distance	-	- <sup>1</sup>	-	-	- <sup>1</sup>	-
Dimmable from / to	100 - 50%; < 10% endo					
Pattern Size Variable through Distance Variation between 0.8m and 1.2m Distance (cm)	16 - 30 (6.3" - 11.8")			16 - 30 (6.3" - 11.8")		

<sup>1</sup>. With camera module installed.  
Subject to changes.



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### LIGHTING DATA

Light Head Variants	TL55x0				TL53x0			
	Narrow Pattern Size		Wide Pattern Size (Feature)		Narrow Pattern Size		Wide Pattern Size (Feature)	
Pattern Size (d10) at 1.0 m (cm)	17 (6.7")		24 (9.5")		17 (6.7")		24 (9.5")	
Illumination Level at 1.0 m (Lux)	160,000		160,000		140,000		140,000	
d50 / d10 ratio	~ 0.59		~ 0.54		~ 0.59		~ 0.54	
d50 (cm)	10 (3.9")		13 (5.1")		10 (3.9")		13 (5.1")	
Single Color Temperature (K) <sup>1</sup>	Standard: 3,500; 4,000; 4,500 or 5,000							
Color Temperature adjustable at the Control Panel	Optional: 3,500; 4,000; 4,500 and 5,000							
Upgrade of adjustable Color Temperature without exchanging Light Head	yes							
Color Rendering Index Ra	max. 96				max. 96			
Color Rendering Index R9 (Blood)	max. 97				max. 97			
Color Rendering Index R13 (Tissue)	max. 98				max. 98			
Irradiance (W/m²) <sup>2</sup>	676				620			
Irradiance / Intensity Ratio (mW/m²lx)	3.59		3.62		3.66		3.66	
Remaining Illumination with 1 Mask (Lux)	59%	94,400	76%	121,600	29%	40,600	58%	81,200
Remaining Illumination with 2 Masks (Lux)	43%	68,800	49%	78,400	41%	57,400	43%	60,200
Remaining Illumination with Tube (Lux)	98%	156,800	94%	150,400	100%	140,000	100%	140,000
Remaining Illumination with Tube and 1 Mask (Lux)	58%	92,800	70%	112,000	29%	40,600	58%	81,200
Remaining Illumination with Tube and 2 Masks (Lux)	43%	68,800	45%	72,000	41%	57,400	43%	60,200

1. Can be chosen during initial installation.

2. At a distance of 0.9m.

Subject to changes.



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### DEPTH OF ILLUMINATION

Light Head Variants	TL55x0		TL53x0	
	Narrow Pattern Size	Wide Pattern Size (Feature)	Narrow Pattern Size	Wide Pattern Size (Feature)
EN ISO 60601-2-41 2 <sup>nd</sup> Edition: Depth of Illumination (L1 + L2) at 20% Ec / 2 <sup>nd</sup> Edition (cm)	95 (37.4")	94 (37.0")	94 (37.0")	96 (37.8")
EN ISO 60601-2-41 3 <sup>rd</sup> Edition: Depth of Illumination (L1 + L2) at 60% Ec / 3 <sup>rd</sup> Edition (cm)	60 (23.6")	60 (23.6")	51 (20.1")	51 (20.1")
Average Service Life of the LEDs (h)	> 60,000			

### REGISTRATION DATA

Light Head Variants	TL5500	TL5510	TL5520	TL5300	TL5310	TL5320
Classification (MDD)	1					
Classification (MDR)	1					
Classification (FDA)	2					
Turbulence Degree (%)	35			36		
Mark of Conformity	CE, UL					

### ELECTRICAL DATA

Light Head Variants	TL5500	TL5510	TL5520	TL5300	TL5310	TL5320
Power Pack Supply Voltage	100 - 240 V AC 50/60 Hz					
Power Pack Supply Voltage DC-DC Box	22 - 32 V DC 22 - 26 V AC					
Light Head Power Consumption (VA) <sup>1</sup>	65					
Maximum Power Consumption (Total System) (VA)	120	160	160	110	140	140
Voltage at Ceiling Mounting Point (V)	48					

<sup>1</sup>. For illumination of 160,000 lux at a distance of 1.0 m.  
Subject to changes.



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### MECHANICAL DATA

Light Head Variants	TL5500	TL5510	TL5520	TL5300	TL5310	TL5320
Light-emitting Surface (cm²)	1,892 (293.3 in²)			1,332 (206 in²)		
Laminar Flow Surface (cm²)	3,100 (480.5 in²)				2,100 (326 in²)	
Diameter of Ceiling Plate (square) (mm)	340 (13.4")					
Light Head Size (with Handles) (mm)	730 (28.7")			640 (25.2")		
Light Head Size (without Handles) (mm)	675 (26.6")			580 (22.8")		
Weight of Light Head (incl. cardanic) (kg)	16.4 (36.2 lbs)	16.4 (36.2 lbs)	16.8 (37.0 lbs)	13.6 (30.0 lbs)	13.6 (30.0 lbs)	14.0 (30.9 lbs)

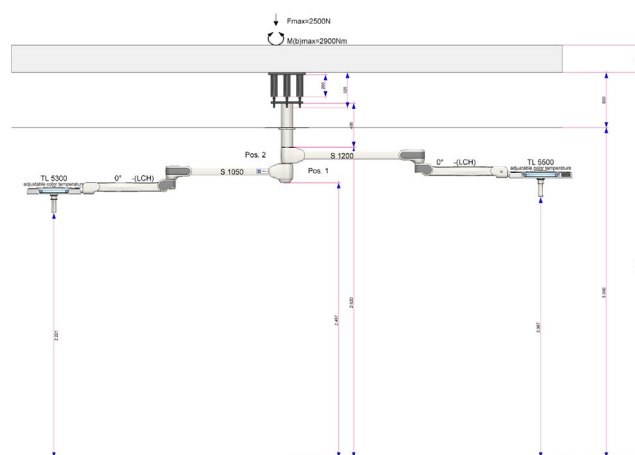
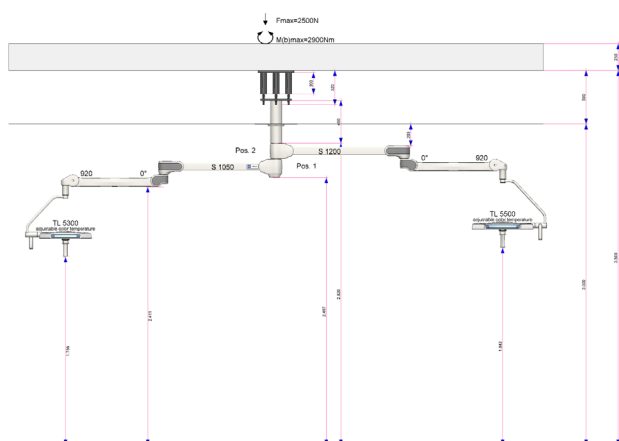
*Subject to changes.*



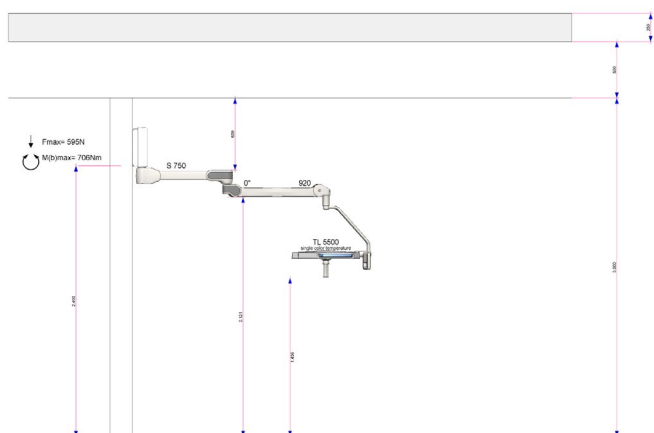
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## TL5000 Surgical Light Series Data Sheet

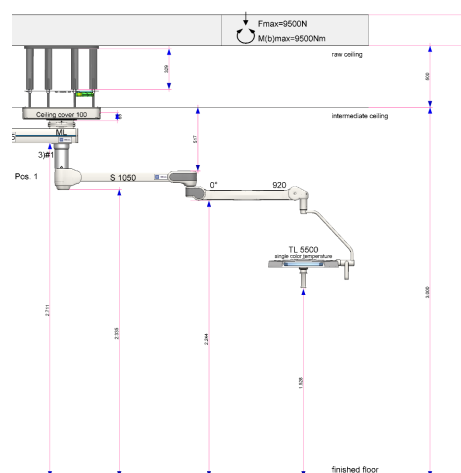
### TL5000/ 3000 Ceiling<sup>1</sup> Duo with TL5500 / TL5300 Light Head Variants on VALiA®<sup>2</sup> arms (STANDARD ROOM HEIGHT)



### TL5000/ 3000 Wall with TL5500 Light Head on VALiA® arm



### TL5000/ 3000 Pendant<sup>3</sup> with TL5500 Light Head on VALiA® arm



Values are in mm.  
Subject to changes.

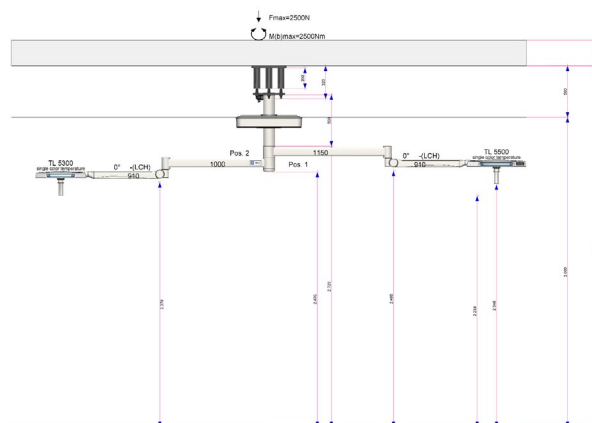
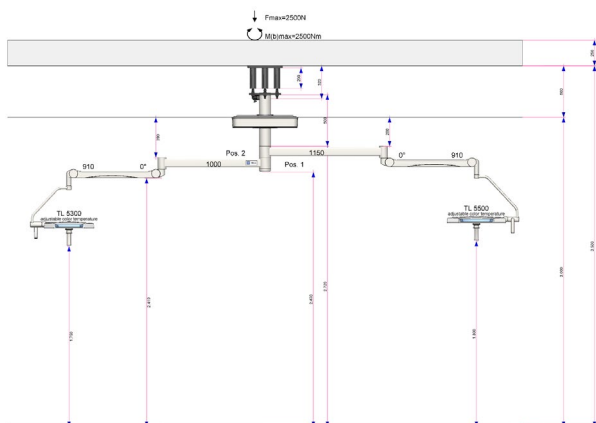
- 1: Several ceiling tubes and arm lengths available; select 1-4 arms
- 2: VALiA® by Ondal Medical Systems GmbH
- 3: Several arm lengths available



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### TL5000/ 3000 Ceiling<sup>1</sup> Duo with TL3500 / TL3300 Light Head Variants on Acrobat<sup>®2</sup> arms (STANDARD ROOM HEIGHT) (LOW CEILING ROOM HEIGHT)



Values are in mm.  
Subject to changes.

1: Several ceiling tubes and arm lengths available; select 1-4 arms  
2: Acrobat<sup>®</sup> by Ondal Medical Systems GmbH

For more information, please contact your local distributor or Hillrom sales representative.

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TL5000/TL3000 naming corresponds to the following CE registered products: TruLight 5000 / 3000 Ceiling Single – 4038110; TruLight 5000 / 3000 Mobile – 4038120; TruLight 5000 / 3000 Wall – 4038130; TruLight 5000 / 3000 Pendant – 4038140; TruLight 5000 / 3000 Ceiling Duo – 4038210; TruLight 5000 / 3000 Ceiling Trio – 4038310; TruLight 5000 / 3000 Ceiling Quad – 4038410

The TL5000 Surgical Light is intended to be used by clinicians and medically qualified personnel. This medical device is a regulated healthcare product which, pursuant to such regulation bears a CE mark. Hill-Rom recommends that you carefully read the detailed instructions for safe and proper use included in the documents accompanying the medical devices. The personnel of healthcare establishments are responsible for the proper use and maintenance of these medical devices. Hill-Rom reserves the right to make changes without notice in design, specifications and models. The only warranty Hill-Rom makes is the express written warranty extended on the sale or rental of its products. TRUMPF Medizin Systeme GmbH + Co. KG is a subsidiary of Hill-Rom Holdings, Inc.