



Seeing colors in a natural way

MASTER TL5 High Output 90 De Luxe

This TL5 High Output lamp (tube diameter 16 mm) has excellent color rendering (CRI ~GT~ 90). This means that colors are presented in a natural way, making them appear rich, deep and enhanced as they do in daylight. Application areas are places where color rendering is key, e.g. the printing industry, libraries, museums, hospitals and shops (jewelry, flowers, clothing, textile, leather, carpets).

Benefits

- Allows system miniaturisation and maximum luminaire design freedom, with lamp lengths defined for easy fitting into ceiling module systems
- Virtually constant lumen level with good lumen maintenance
- Excellent color rendering

Features

- 40% thinner than TL-D lamps
- Highly efficient multi-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear and well-suited for dimming
- Maximum light output reached at approximately 35 °C in free-burning position if an electronic driver with cut-off feature is used
- Can be ignited from -15 to +50 °C

Application

- Where a high color recognition is needed: first aid and treatment rooms in hospitals, printing rooms, jewellery manufacturing, dentists, hairdressing, museums and shops

Warnings and Safety

- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

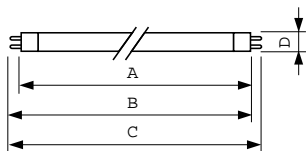
MASTER TL5 High Output 90 De Luxe

Versions



G5, T5

Dimensional drawing



| Product | D (max) | A (max) | B (max) | B (min) | C (max) |
|--|---------|-----------|-----------|-----------|-----------|
| MASTER TL5 HO 90 De Luxe 49W/952 1SL20 | 17 mm | 1449.0 mm | 1456.1 mm | 1453.7 mm | 1463.2 mm |
| MASTER TL5 HO 90 De Luxe 49W/965 1SL20 | 17 mm | 1449.0 mm | 1456.1 mm | 1453.7 mm | 1463.2 mm |
| MASTER TL5 HO 90 De Luxe 24W/940 1SL20 | 17 mm | 549.0 mm | 556.1 mm | 553.7 mm | 563.2 mm |
| MASTER TL5 HO 90 De Luxe 24W/965 1SL20 | 17 mm | 549.0 mm | 556.1 mm | 553.7 mm | 563.2 mm |
| MASTER TL5 HO 90 De Luxe 54W/940 1SL20 | 17 mm | 1149.0 mm | 1156.1 mm | 1153.7 mm | 1163.2 mm |
| MASTER TL5 HO 90 De Luxe 54W/952 1SL20 | 17 mm | 1149.0 mm | 1156.1 mm | 1153.7 mm | 1163.2 mm |
| MASTER TL5 HO 90 De Luxe 54W/965 1SL20 | 17 mm | 1149.0 mm | 1156.1 mm | 1153.7 mm | 1163.2 mm |

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Approval and application

| | |
|----------------------------|--------|
| Mercury (Hg) Content (Nom) | 1.2 mg |
|----------------------------|--------|

Controls and dimming

| | |
|----------|-----|
| Dimmable | Yes |
|----------|-----|

General information

| | |
|------------------------------------|---------|
| Cap-Base | G5 |
| Life To 50% Failures Preheat (Nom) | 30000 h |
| LSF Preheat 16000 h Rated | 97 % |
| LSF Preheat 20000 h Rated | 84 % |
| LSF Preheat 2000 h Rated | 99 % |
| LSF Preheat 4000 h Rated | 99 % |
| LSF Preheat 6000 h Rated | 99 % |
| LSF Preheat 8000 h Rated | 99 % |

Light technical

| | |
|--------------------|------|
| LLMF 12000 h Rated | 92 % |
| LLMF 16000 h Rated | 91 % |
| LLMF 2000 h Rated | 96 % |
| LLMF 20000 h Rated | 90 % |
| LLMF 4000 h Rated | 95 % |
| LLMF 6000 h Rated | 94 % |
| LLMF 8000 h Rated | 93 % |

Mechanical and housing

| | |
|------------|----|
| Bulb Shape | T5 |
|------------|----|

Temperature

| | |
|--------------------------|-------|
| Design Temperature (Nom) | 35 °C |
|--------------------------|-------|

Approval and application

| Order Code | Full Product Name | Energy Consumption kWh/1000 h |
|--------------|--|-------------------------------|
| 927991595024 | MASTER TL5 HO 90 De Luxe 49W/952 1SL20 | 50 kWh |
| 927991596524 | MASTER TL5 HO 90 De Luxe 49W/965 1SL20 | 50 kWh |
| 927992094024 | MASTER TL5 HO 90 De Luxe 24W/940 1SL20 | 25 kWh |
| 927992096524 | MASTER TL5 HO 90 De Luxe 24W/965 1SL20 | 23 kWh |
| 927993094024 | MASTER TL5 HO 90 De Luxe 54W/940 1SL20 | 59 kWh |
| 927993095024 | MASTER TL5 HO 90 De Luxe 54W/952 1SL20 | 55 kWh |
| 927993096524 | MASTER TL5 HO 90 De Luxe 54W/965 1SL20 | 55 kWh |

Operating and electrical

| Order Code | Full Product Name | Lamp Current (Nom) | Power (Nom) |
|--------------|--|--------------------|-------------|
| 927991595024 | MASTER TL5 HO 90 De Luxe 49W/952 1SL20 | 0.255 A | 49.8 W |
| 927991596524 | MASTER TL5 HO 90 De Luxe 49W/965 1SL20 | 0.255 A | 49.8 W |
| 927992094024 | MASTER TL5 HO 90 De Luxe 24W/940 1SL20 | 0.295 A | 22.5 W |
| 927992096524 | MASTER TL5 HO 90 De Luxe 24W/965 1SL20 | 0.295 A | 22.8 W |

| Order Code | Full Product Name | Lamp Current (Nom) | Power (Nom) |
|--------------|--|--------------------|-------------|
| 927993094024 | MASTER TL5 HO 90 De Luxe 54W/940 1SL20 | 0.455 A | 54.1 W |
| 927993095024 | MASTER TL5 HO 90 De Luxe 54W/952 1SL20 | 0.455 A | 54.6 W |
| 927993096524 | MASTER TL5 HO 90 De Luxe 54W/965 1SL20 | 0.455 A | 54.6 W |

Light technical (1/2)

| Order Code | Full Product Name | Chromaticity | | Color | |
|--------------|--|--------------------|--------------------|-------|-------------|
| | | Coordinate X (Nom) | Coordinate Y (Nom) | Code | Designation |
| 927991595024 | MASTER TL5 HO 90 De Luxe 49W/952 1SL20 | 0.34 | 0.351 | 950 | Daylight |

| Order Code | Full Product Name | Chromaticity | | Color | |
|--------------|--|--------------------|--------------------|-------|---------------|
| | | Coordinate X (Nom) | Coordinate Y (Nom) | Code | Designation |
| 927991596524 | MASTER TL5 HO 90 De Luxe 49W/965 1SL20 | 0.313 | 0.337 | 965 | Cool Daylight |

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| Order Code | Full Product Name | Chromaticity | Chromaticity | Color | | Order Code | Full Product Name | Chromaticity | Chromaticity | Color | |
|--------------|--|--------------------|--------------------|-------|--------------------|--------------|--|--------------------|--------------------|-------|---------------|
| | | Coordinate X (Nom) | Coordinate Y (Nom) | Code | Designation | | | Coordinate X (Nom) | Coordinate Y (Nom) | Code | Designation |
| 927992094024 | MASTER TL5 HO 90 De Luxe 24W/940 1SL20 | 380 | 380 | 940 | Cool White (CW) | 927993095024 | MASTER TL5 HO 90 De Luxe 54W/952 1SL20 | 0.34 | 0.351 | 950 | Daylight |
| 927992096524 | MASTER TL5 HO 90 De Luxe 24W/965 1SL20 | 0.313 | 0.337 | 965 | Cool Daylight | 927993096524 | MASTER TL5 HO 90 De Luxe 54W/965 1SL20 | 0.313 | 0.337 | 965 | Cool Daylight |
| 927993094024 | MASTER TL5 HO 90 De Luxe 54W/940 1SL20 | 380 | 380 | 940 | Cool White (CW) | | | | | | |

Light technical (2/2)

| Order Code | Full Product Name | Correlated Color Temperature (Nom) | Color | | Luminous Efficacy (@ | | Luminous Flux (Nom) | Luminous Flux (Rated) (Nom) |
|--------------|--|------------------------------------|-----------------------|-------------------------|---------------------------------|---------|---------------------|-----------------------------|
| | | | Rendering Index (Nom) | Max Lumen, Rated) (Nom) | Luminous Efficacy (rated) (Nom) | | | |
| 927991595024 | MASTER TL5 HO 90 De Luxe 49W/952 1SL20 | 5200 K | 92 | 85 lm/W | 76 lm/W | 3800 lm | 3725 lm | |
| 927991596524 | MASTER TL5 HO 90 De Luxe 49W/965 1SL20 | 6500 K | 92 | 85 lm/W | 76 lm/W | 3800 lm | 3725 lm | |
| 927992094024 | MASTER TL5 HO 90 De Luxe 24W/940 1SL20 | 4000 K | 91 | 78 lm/W | 68 lm/W | 1750 lm | 1525 lm | |
| 927992096524 | MASTER TL5 HO 90 De Luxe 24W/965 1SL20 | 6500 K | 92 | 78 lm/W | 68 lm/W | 1525 lm | 1525 lm | |
| 927993094024 | MASTER TL5 HO 90 De Luxe 54W/940 1SL20 | 4000 K | 91 | 80 lm/W | 71 lm/W | 4300 lm | 3825 lm | |
| 927993095024 | MASTER TL5 HO 90 De Luxe 54W/952 1SL20 | 5200 K | 91 | 80 lm/W | 71 lm/W | 3825 lm | 3825 lm | |
| 927993096524 | MASTER TL5 HO 90 De Luxe 54W/965 1SL20 | 6500 K | 92 | 80 lm/W | 71 lm/W | 3825 lm | 3825 lm | |

