



# MASTER TL5 High Output 90 De Luxe

MASTER TL5 HO 90 De Luxe 54W/965 1SL

This TL5 High Output lamp (tube diameter 16 mm) has excellent color rendering (CRI > 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).

## Product data

### • General Characteristics

|                  |            |
|------------------|------------|
| Cap-Base         | G5         |
| Bulb             | T5 [16 mm] |
| Life to 10% fail | 19000 hr   |
| Preheat EL,3h    |            |
| Life to 50% fail | 24000 hr   |
| Preheat EL,3h    |            |
| LSF HF Preheat   | 99 %       |
| 2000h Rated,3h   |            |
| LSF HF Preheat   | 99 %       |
| 4000h Rated,3h   |            |
| LSF HF Preheat   | 99 %       |
| 6000h Rated,3h   |            |
| LSF HF Preheat   | 99 %       |
| 8000h Rated,3h   |            |
| LSF HF Preheat   | 99 %       |
| 12000h Rated,3h  |            |
| LSF HF Preheat   | 97 %       |
| 16000h Rated,3h  |            |
| LSF HF Preheat   | 84 %       |
| 20000h Rated,3h  |            |

### • Light Technical Characteristics

|                                |                    |
|--------------------------------|--------------------|
| Color Code                     | 965 [CCT of 6500K] |
| Color Rendering Index          | 93 Ra8             |
| Color Designation (text)       | Cool Daylight      |
| Color Temperature              | 6800 K             |
| Luminous Flux EL 25°C, Rated   | 3800 Lm            |
| Luminous Flux EL 25°C, Nominal | 3800 Lm            |
| Luminous Flux Lamp EL 35°C     | 4300 Lm            |

|                                |            |
|--------------------------------|------------|
| Lum Efficacy Rated HF 25°C     | 70 Lm/W    |
| Lum Efficacy Rated HF 35°C     | 80 Lm/W    |
| Luminous Efficacy EL Top, 35°C | 80 Lm/W    |
| Luminance Average EL Top, 35°C | 2.2 cd/cm2 |
| Luminance Average EL 25°C      | 2.2 cd/cm2 |
| LLMF HF 2000h Rated            | 96 %       |
| LLMF HF 4000h Rated            | 95 %       |
| LLMF HF 6000h Rated            | 94 %       |
| LLMF HF 8000h Rated            | 93 %       |
| LLMF HF 12000h Rated           | 92 %       |
| LLMF HF 16000h Rated           | 91 %       |
| LLMF HF 20000h Rated           | 90 %       |
| Design Temperature             | 35 C       |
| Chromaticity Coordinate X      | 309 -      |
| Chromaticity Coordinate Y      | 323 -      |

### • Electrical Characteristics

|                               |        |
|-------------------------------|--------|
| Lamp Wattage                  | 54 W   |
| Lamp Wattage EL 25°C, Rated   | 54.3 W |
| Lamp Wattage EL 25°C, Nominal | 54 W   |



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|                      |         |
|----------------------|---------|
| Lamp Wattage EL 35°C | 54 W    |
| Lamp Voltage EL 25°C | 118 V   |
| Lamp Voltage EL 35°C | 118 V   |
| Lamp Current EL 25°C | 0.460 A |
| Lamp Current EL 35°C | 0.460 A |
| Dimmable             | Yes     |

## • Environmental Characteristics

|                               |        |
|-------------------------------|--------|
| Energy Efficiency Label (EEL) | A      |
| Mercury (Hg) Content          | 1.4 mg |
| Energy consumption kWh/1000h  | 59 kWh |

## • Measuring Conditions

|                            |         |
|----------------------------|---------|
| Calibration Current        | 0.460 A |
| HF Generator Rated Voltage | 235 V   |
| Resistor                   | 255 ohm |

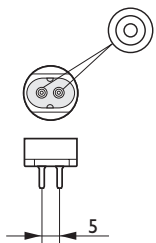
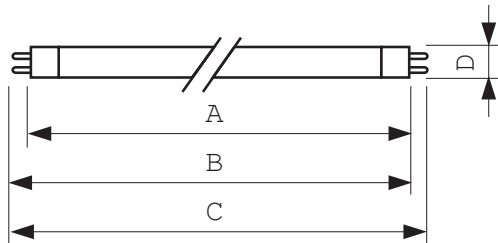
## • Product Dimensions

|                          |                               |
|--------------------------|-------------------------------|
| Base Face to Base Face A | 1149.0 (max) mm               |
| Insertion Length B       | 1153.7 (min), 1156.1 (max) mm |
| Overall Length C         | 1163.2 (max) mm               |
| Diameter D               | 17 (max) mm                   |

## • Product Data

|                             |   |
|-----------------------------|---|
| Order code                  | 927993096524                            |
| Full product code           | 927993096524                            |
| Full product name           | MASTER TL5 HO 90 De Luxe 54W/965 1SL    |
| Order product name          | MASTER TL5 HO 90 De Luxe 54W/965 1SL/20 |
| Pieces per pack             | 1                                       |
| Packing configuration       | 20                                      |
| Packs per outerbox          | 20                                      |
| Bar code on pack - EAN1     | 8711500869838                           |
| Bar code on outerbox - EAN3 | 8727900895285                           |
| Logistic code(s) - 12NC     | 927993096524                            |
| ILCOS code                  | FDH-54/65/1A-L/P-G5-16/1150             |
| Net weight per piece        | 104.500 gr                              |

## Dimensional drawing

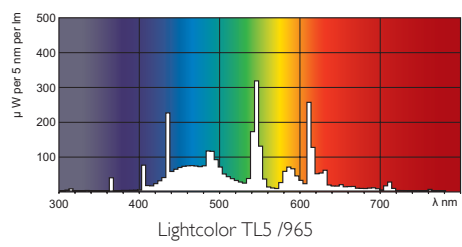
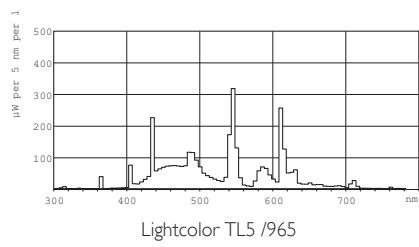


G5

## MASTER TL5 HO 90 De Luxe 54W/965 1SL

| Product        | A (Max) | B (Min) | B (Max) | C (Max) | D (Max) |
|----------------|---------|---------|---------|---------|---------|
| TL5 HO 54W/965 | 1149.0  | 1153.7  | 1156.1  | 1163.2  | 17      |

## Photometric data



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2013, October 9  
data subject to change