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The world's brightest fluorescent lighting

This TL5 lamp (tube diameter 16 mm) offers high light output. The TL5 HO lamp is optimized for installations requiring high light output and offers excellent lumen maintenance and color rendering. Application areas vary from offices and industry to schools and retail environments.

Benefits

- Allows system miniaturization and maximum luminaire design freedom
- Lamp lengths enable easy fitting into ceiling module systems
- Optimized for installations which need high luminous flux
- Virtually constant lumen level with excellent lumen maintenance
- Good color rendering

Features

- 40% thinner than TL-D lamps
- Designed for high light output and system miniaturization
- Highly efficient 3-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

Environment

- Best environmental choice because of highest energy efficiency available for fluorescent lighting. Lowest CO₂ emission compared to any other comparable light-source (40% less than a TL-D standard lamp, 26% less than TL-D 800 colors).
- Less material, packaging, weight, transport and recycling volume due to smallest product dimensions (only 16 mm diameter, 40% less compared with TL-D lamps)
- This product range is RoHS compliant
- This product range is covered by WEEE

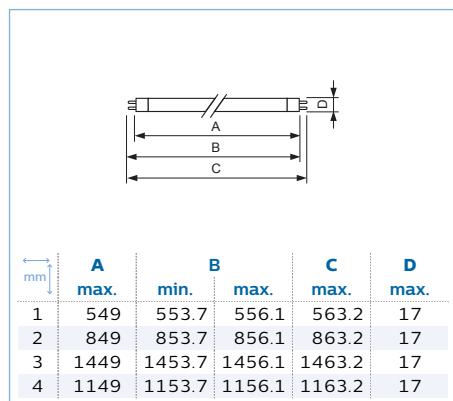
Application

- The combination of a compact lamp and high lumen package of the MASTER TL5 HO offers exciting opportunities for architectural lighting and customized solutions
- Offers economic solutions with high-ceiling lighting in shops, industry and department stores
- The high luminous flux gives optimal results in aesthetic pendants and furniture-mounted luminaires in offices, workshops, restaurants and reception areas

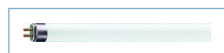
Warnings and Safety

- 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.

Dimension Drawing



Product Range





Main Data

MASTER TL5 HO

| Power/Light source color | SAP Packing (Piece)/Packaging configuration | Cap-Base | Correlated Color Temperature (K) | Luminous Efficacy (@ Max Lumen, Rated) (lm/W) | Life to 50% Failures Preheat (h) | Energy Consumption kWh/1000 h (kWh) | Ordering number 8711500... |
|--------------------------|---|----------|----------------------------------|---|----------------------------------|-------------------------------------|----------------------------|
| 24W /830 | SL / 40 | G5 | 3,000 | 87 | 30,000 | 25 | A 1 63958555 |
| 24W /830 | UNP / 40 | G5 | 3,000 | 87 | 30,000 | 25 | A 1 63698055 |
| 24W /840 | SL / 20 | G5 | 4,000 | 87 | 30,000 | 25 | A 1 63960805 |
| 24W /840 | SL / 40 | G5 | 4,000 | 87 | 30,000 | 25 | A 1 63960855 |
| 24W /840 | UNP / 40 | G5 | 4,000 | 87 | 30,000 | 25 | A 1 63704855 |
| 24W /865 | SL / 40 | G5 | 6,500 | 81 | 30,000 | 25 | A 1 64393355 |
| 39W /830 | SL / 40 | G5 | 3,000 | 92 | 30,000 | 42 | A+ 2 63962255 |
| 39W /840 | SL / 20 | G5 | 4,000 | 92 | 30,000 | 42 | A+ 2 63964605 |
| 39W /840 | SL / 40 | G5 | 4,000 | 92 | 30,000 | 42 | A+ 2 63964655 |
| 39W /840 | UNP / 40 | G5 | 4,000 | 92 | 30,000 | 42 | A+ 2 63722255 |
| 39W /865 | SL / 40 | G5 | 6,500 | 86 | 30,000 | 42 | A 2 64387255 |
| 49W /830 | SL / 20 | G5 | 3,000 | 99 | 30,000 | 54 | A+ 3 63954705 |
| 49W /830 | SL / 40 | G5 | 3,000 | 99 | 30,000 | 54 | A+ 3 63954755 |

More data see next page

MASTER TL5 HO

| Power/Light source color | SAP Packing (Piece)/Packaging configuration | Cap-Base | Correlated Color Temperature | Luminous Efficacy (@ Max Lumen, Rated) | Life to 50% Failures Preheat | Energy Consumption kWh/1000 h |  |  | Ordering number 8711500... |
|--------------------------|---|----------|------------------------------|--|------------------------------|-------------------------------|---|---|----------------------------|
| | | | (K) | (lm/W) | (h) | (kWh) | | | |
| 49W/830 | UNP/40 | G5 | 3,000 | 99 | 30,000 | 54 | A+ | 3 | 63752955 |
| 49W/840 | SL/20 | G5 | 4,000 | 99 | 30,000 | 54 | A+ | 3 | 63956105 |
| 49W/840 | SL/40 | G5 | 4,000 | 99 | 30,000 | 54 | A+ | 3 | 63956155 |
| 49W/840 | UNP/40 | G5 | 4,000 | 99 | 30,000 | 54 | A+ | 3 | 63758155 |
| 49W/865 | SL/40 | G5 | 6,500 | 92 | 30,000 | 54 | A+ | 3 | 64389655 |
| 54W/830 | SL/20 | G5 | 3,000 | 93 | 30,000 | 59 | A+ | 4 | 64316205 |
| 54W/830 | SL/40 | G5 | 3,000 | 93 | 30,000 | 59 | A+ | 4 | 64316255 |
| 54W/830 | UNP/40 | G5 | 3,000 | 93 | 30,000 | 59 | A+ | 4 | 63734555 |
| 54W/840 | SL/20 | G5 | 4,000 | 93 | 30,000 | 59 | A+ | 4 | 64318605 |
| 54W/840 | SL/40 | G5 | 4,000 | 93 | 30,000 | 59 | A+ | 4 | 64318655 |
| 54W/840 | UNP/40 | G5 | 4,000 | 93 | 30,000 | 59 | A+ | 4 | 63740655 |
| 54W/865 | SL/40 | G5 | 6,500 | 86 | 30,000 | 59 | A | 4 | 64391955 |
| 80W/830 | SL/40 | G5 | 3,000 | 88 | 30,000 | 88 | A | 3 | 71040655 |
| 80W/830 | UNP/40 | G5 | 3,000 | 88 | 30,000 | 88 | A | 3 | 64436755 |
| 80W/840 | SL/20 | G5 | 4,000 | 88 | 30,000 | 88 | A | 3 | 71045105 |
| 80W/840 | SL/40 | G5 | 4,000 | 88 | 30,000 | 88 | A | 3 | 71045155 |
| 80W/840 | UNP/40 | G5 | 4,000 | 88 | 30,000 | 88 | A | 3 | 64438155 |
| 80W/865 | SL/40 | G5 | 6,500 | 83 | 30,000 | 88 | A | 3 | 71047555 |

Electrical data

| Commercial product name | Lamp Current | Lamp Current (@ Max Lumen) | Calibration Current | Lamp power | Voltage (@ Max Lumen) | Resistor | HF Generator Rated Voltage |
|------------------------------|--------------|----------------------------|---------------------|------------|-----------------------|----------|----------------------------|
| | (A) | (A) | (A) | (W) | (V) | (Ω) | (V) |
| MASTER TL5 HO 24W/830 SLV/40 | 0.295 | 0.300 | 0.300 | 22.5 | 75 | 250 | 150 |
| MASTER TL5 HO 24W/830 UNP/40 | 0.295 | 0.300 | 0.300 | 22.5 | 75 | 250 | 150 |
| MASTER TL5 HO 24W/840 1SL/20 | 0.295 | 0.300 | 0.300 | 22.5 | 75 | 250 | 150 |
| MASTER TL5 HO 24W/840 SLV/40 | 0.295 | 0.300 | 0.300 | 22.5 | 75 | 250 | 150 |
| MASTER TL5 HO 24W/840 UNP/40 | 0.295 | 0.300 | 0.300 | 22.5 | 75 | 250 | 150 |
| MASTER TL5 HO 24W/865 SLV/40 | 0.295 | 0.300 | 0.300 | 22.5 | 75 | 250 | 150 |
| MASTER TL5 HO 39W/830 SLV/40 | 0.325 | 0.340 | 0.340 | 38.0 | 112 | 330 | 224 |
| MASTER TL5 HO 39W/840 SLV/20 | 0.325 | 0.340 | 0.340 | 38.0 | 112 | 330 | 224 |
| MASTER TL5 HO 39W/840 SLV/40 | 0.325 | 0.340 | 0.340 | 38.0 | 112 | 330 | 224 |
| MASTER TL5 HO 39W/840 UNP/40 | 0.325 | 0.340 | 0.340 | 38.0 | 112 | 330 | 224 |
| MASTER TL5 HO 39W/865 SLV/40 | 0.325 | 0.340 | 0.340 | 38.0 | 112 | 330 | 224 |
| MASTER TL5 HO 49W/830 SLV/20 | 0.255 | 0.260 | 0.255 | 49.2 | 191 | 765 | 390 |
| MASTER TL5 HO 49W/830 SLV/40 | 0.255 | 0.260 | 0.255 | 49.2 | 191 | 765 | 390 |
| MASTER TL5 HO 49W/830 UNP/40 | 0.255 | 0.260 | 0.255 | 49.2 | 191 | 765 | 390 |
| MASTER TL5 HO 49W/840 SLV/20 | 0.255 | 0.260 | 0.255 | 49.2 | 191 | 765 | 390 |
| MASTER TL5 HO 49W/840 SLV/40 | 0.255 | 0.260 | 0.255 | 49.2 | 191 | 765 | 390 |
| MASTER TL5 HO 49W/840 UNP/40 | 0.255 | 0.260 | 0.255 | 49.2 | 191 | 765 | 390 |
| MASTER TL5 HO 49W/865 SLV/40 | 0.255 | 0.260 | 0.255 | 49.2 | 191 | 765 | 390 |
| MASTER TL5 HO 54W/830 SLV/20 | 0.455 | 0.460 | 0.460 | 54.1 | 118 | 255 | 235 |
| MASTER TL5 HO 54W/830 SLV/40 | 0.455 | 0.460 | 0.460 | 54.1 | 118 | 255 | 235 |
| MASTER TL5 HO 54W/830 UNP/40 | 0.455 | 0.460 | 0.460 | 54.1 | 118 | 255 | 235 |
| MASTER TL5 HO 54W/840 SLV/20 | 0.455 | 0.460 | 0.460 | 54.1 | 118 | 255 | 235 |
| MASTER TL5 HO 54W/840 SLV/40 | 0.455 | 0.460 | 0.460 | 54.1 | 118 | 255 | 235 |
| MASTER TL5 HO 54W/840 UNP/40 | 0.455 | 0.460 | 0.460 | 54.1 | 118 | 255 | 235 |
| MASTER TL5 HO 54W/865 SLV/40 | 0.455 | 0.460 | 0.460 | 54.1 | 118 | 255 | 235 |
| MASTER TL5 HO 80W/830 SLV/40 | 0.530 | 0.555 | 0.550 | 79.8 | 145 | 260 | 290 |
| MASTER TL5 HO 80W/830 UNP/40 | 0.530 | 0.555 | 0.550 | 79.8 | 145 | 260 | 290 |
| MASTER TL5 HO 80W/840 SLV/20 | 0.530 | 0.555 | 0.550 | 79.8 | 145 | 260 | 290 |
| MASTER TL5 HO 80W/840 SLV/40 | 0.530 | 0.555 | 0.550 | 79.8 | 145 | 260 | 290 |
| MASTER TL5 HO 80W/840 UNP/40 | 0.530 | 0.555 | 0.550 | 79.8 | 145 | 260 | 290 |
| MASTER TL5 HO 80W/865 SLV/40 | 0.530 | 0.555 | 0.550 | 80.0 | 145 | 260 | 290 |

Lifetime data

| Commercial product name | Life to 10% Failures Preheat (h) | Life to 10% Failures Preheat, 12h (h) | Life to 50% Failures Preheat (h) | Life to 50% Failures Preheat, 1h (h) | Life to 50% Failures Preheat, 12h (h) |
|------------------------------|----------------------------------|---------------------------------------|----------------------------------|--------------------------------------|---------------------------------------|
| MASTER TL5 HO 24W/830 SLV/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 24W/830 UNP/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 24W/840 1SL/20 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 24W/840 SLV/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 24W/840 UNP/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 24W/865 SLV/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 39W/830 SLV/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 39W/840 SLV/20 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 39W/840 SLV/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 39W/840 UNP/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 39W/865 SLV/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 49W/830 SLV/20 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 49W/830 SLV/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 49W/830 UNP/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 49W/840 SLV/20 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 49W/840 SLV/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 49W/840 UNP/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 49W/865 SLV/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 54W/830 SLV/20 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 54W/830 SLV/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 54W/830 UNP/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 54W/840 SLV/20 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 54W/840 SLV/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 54W/840 UNP/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 54W/865 SLV/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 80W/830 SLV/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 80W/830 UNP/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 80W/840 SLV/20 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 80W/840 SLV/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 80W/840 UNP/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |
| MASTER TL5 HO 80W/865 SLV/40 | 21,000 | 24,000 | 30,000 | 24,000 | 36,000 |

Color data

| Commercial product name | Colour Rendering Index ([min.]) | Colour Rendering Index | Colour Rendering Index ([max.]) | Light source color ¹ | Color Designation |
|------------------------------|-----------------------------------|------------------------|-----------------------------------|---------------------------------|-------------------|
| MASTER TL5 HO 24W/830 SLV/40 | 80 | 82 | 85 | 830 | Warm White (WW) |
| MASTER TL5 HO 24W/830 UNP/40 | 80 | 82 | 85 | 830 | Warm White (WW) |
| MASTER TL5 HO 24W/840 1SL/20 | 80 | 82 | 85 | 840 | Cool White (CW) |
| MASTER TL5 HO 24W/840 SLV/40 | 80 | 82 | 85 | 840 | Cool White (CW) |
| MASTER TL5 HO 24W/840 UNP/40 | 80 | 82 | 85 | 840 | Cool White (CW) |
| MASTER TL5 HO 24W/865 SLV/40 | 80 | 82 | 85 | 865 | Cool Daylight |
| MASTER TL5 HO 39W/830 SLV/40 | 80 | 82 | 85 | 830 | Warm White (WW) |
| MASTER TL5 HO 39W/840 SLV/20 | 80 | 82 | 85 | 840 | Cool White (CW) |
| MASTER TL5 HO 39W/840 SLV/40 | 80 | 82 | 85 | 840 | Cool White (CW) |
| MASTER TL5 HO 39W/840 UNP/40 | 80 | 82 | 85 | 840 | Cool White (CW) |
| MASTER TL5 HO 39W/865 SLV/40 | 80 | 82 | 85 | 865 | Cool Daylight |
| MASTER TL5 HO 49W/830 SLV/20 | 80 | 82 | 85 | 830 | Warm White (WW) |
| MASTER TL5 HO 49W/830 SLV/40 | 80 | 82 | 85 | 830 | Warm White (WW) |
| MASTER TL5 HO 49W/830 UNP/40 | 80 | 82 | 85 | 830 | Warm White (WW) |
| MASTER TL5 HO 49W/840 SLV/20 | 80 | 82 | 85 | 840 | Cool White (CW) |
| MASTER TL5 HO 49W/840 SLV/40 | 80 | 82 | 85 | 840 | Cool White (CW) |
| MASTER TL5 HO 49W/840 UNP/40 | 80 | 82 | 85 | 840 | Cool White (CW) |
| MASTER TL5 HO 49W/865 SLV/40 | 80 | 82 | 85 | 865 | Cool Daylight |
| MASTER TL5 HO 54W/830 SLV/20 | 80 | 85 | 85 | 830 | Warm White (WW) |
| MASTER TL5 HO 54W/830 SLV/40 | 80 | 85 | 85 | 830 | Warm White (WW) |
| MASTER TL5 HO 54W/830 UNP/40 | 80 | 85 | 85 | 830 | Warm White (WW) |
| MASTER TL5 HO 54W/840 SLV/20 | 80 | 85 | 85 | 840 | Cool White (CW) |
| MASTER TL5 HO 54W/840 SLV/40 | 80 | 85 | 85 | 840 | Cool White (CW) |
| MASTER TL5 HO 54W/840 UNP/40 | 80 | 85 | 85 | 840 | Cool White (CW) |
| MASTER TL5 HO 54W/865 SLV/40 | 80 | 85 | 85 | 865 | Cool Daylight |
| MASTER TL5 HO 80W/830 SLV/40 | 80 | 82 | 85 | 830 | Warm White (WW) |

More data see next page

| Commercial product name | Colour Rendering Index ([min.]) | Colour Rendering Index | Colour Rendering Index ([max.]) | Light source color ¹ | Color Designation |
|------------------------------|--------------------------------------|------------------------|--------------------------------------|---------------------------------|-------------------|
| MASTER TL5 HO 80W/830 UNP/40 | 80 | 82 | 85 | 830 | Warm White (WW) |
| MASTER TL5 HO 80W/840 SLV/20 | 80 | 82 | 85 | 840 | Cool White (CW) |
| MASTER TL5 HO 80W/840 SLV/40 | 80 | 82 | 85 | 840 | Cool White (CW) |
| MASTER TL5 HO 80W/840 UNP/40 | 80 | 82 | 85 | 840 | Cool White (CW) |
| MASTER TL5 HO 80W/865 SLV/40 | 80 | 82 | 85 | 865 | Cool Daylight |

¹ 'Light source color' value description(s): '830' = CCT of 3000K, '840' = CCT of 4000K, '865' = CCT of 6500K

Luminous flux/efficacy/intensity data

| Commercial product name | Luminous Flux (Rated) | Luminous Flux | Luminous Efficacy (Rated) | Luminous Efficacy (@ Max Lumen, Rated) |
|------------------------------|-----------------------|---------------|---------------------------|--|
| | (lm) | (lm) | (lm/W) | (lm/W) |
| MASTER TL5 HO 24W/830 SLV/40 | 1,700 | 1,950 | 76.0 | 87 |
| MASTER TL5 HO 24W/830 UNP/40 | 1,700 | 1,950 | 76.0 | 87 |
| MASTER TL5 HO 24W/840 1SL/20 | 1,700 | 1,950 | 76.0 | 87 |
| MASTER TL5 HO 24W/840 SLV/40 | 1,700 | 1,950 | 76.0 | 87 |
| MASTER TL5 HO 24W/840 UNP/40 | 1,700 | 1,950 | 76.0 | 87 |
| MASTER TL5 HO 24W/865 SLV/40 | 1,575 | 1,825 | 72.0 | 81 |
| MASTER TL5 HO 39W/830 SLV/40 | 3,100 | 3,500 | 82.0 | 92 |
| MASTER TL5 HO 39W/840 SLV/20 | 3,100 | 3,500 | 82.0 | 92 |
| MASTER TL5 HO 39W/840 SLV/40 | 3,100 | 3,500 | 82.0 | 92 |
| MASTER TL5 HO 39W/840 UNP/40 | 3,100 | 3,500 | 82.0 | 92 |
| MASTER TL5 HO 39W/865 SLV/40 | 2,875 | 3,250 | 76.0 | 86 |
| MASTER TL5 HO 49W/830 SLV/20 | 4,375 | 4,900 | 89.0 | 99 |
| MASTER TL5 HO 49W/830 SLV/40 | 4,375 | 4,900 | 89.0 | 99 |
| MASTER TL5 HO 49W/830 UNP/40 | 4,375 | 4,900 | 89.0 | 99 |
| MASTER TL5 HO 49W/840 SLV/20 | 4,375 | 4,900 | 89.0 | 99 |
| MASTER TL5 HO 49W/840 SLV/40 | 4,375 | 4,900 | 89.0 | 99 |
| MASTER TL5 HO 49W/840 UNP/40 | 4,375 | 4,900 | 89.0 | 99 |
| MASTER TL5 HO 49W/865 SLV/40 | 4,075 | 4,550 | 83.0 | 92 |
| MASTER TL5 HO 54W/830 SLV/20 | 4,500 | 5,000 | 83.0 | 93 |
| MASTER TL5 HO 54W/830 SLV/40 | 4,500 | 5,000 | 83.0 | 93 |
| MASTER TL5 HO 54W/830 UNP/40 | 4,500 | 5,000 | 83.0 | 93 |
| MASTER TL5 HO 54W/840 SLV/20 | 4,500 | 5,000 | 83.0 | 93 |
| MASTER TL5 HO 54W/840 SLV/40 | 4,500 | 5,000 | 83.0 | 93 |
| MASTER TL5 HO 54W/840 UNP/40 | 4,500 | 5,000 | 83.0 | 93 |
| MASTER TL5 HO 54W/865 SLV/40 | 4,200 | 4,650 | 78.0 | 86 |
| MASTER TL5 HO 80W/830 SLV/40 | 6,550 | 7,000 | 82.0 | 88 |
| MASTER TL5 HO 80W/830 UNP/40 | 6,550 | 7,000 | 82.0 | 88 |
| MASTER TL5 HO 80W/840 SLV/20 | 6,550 | 7,000 | 82.0 | 88 |
| MASTER TL5 HO 80W/840 SLV/40 | 6,550 | 7,000 | 82.0 | 88 |
| MASTER TL5 HO 80W/840 UNP/40 | 6,550 | 7,000 | 82.0 | 88 |
| MASTER TL5 HO 80W/865 SLV/40 | 6,300 | 6,300 | 79.0 | 83 |

Rated Lumen Maintenance data

| Commercial product name | LLMF 2000 h | LLMF 4000 h | LLMF 6000 h | LLMF 8000 h | LLMF 12000 h | LLMF 16000 h | LLMF 20000 h |
|------------------------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|
| | Rated (%) | Rated (%) | Rated (%) | Rated (%) | Rated (%) | Rated (%) | Rated (%) |
| MASTER TL5 HO 24W/830 SLV/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 24W/830 UNP/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 24W/840 1SL/20 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 24W/840 SLV/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 24W/840 UNP/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 24W/865 SLV/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 39W/830 SLV/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 39W/840 SLV/20 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 39W/840 SLV/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 39W/840 UNP/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 39W/865 SLV/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 49W/830 SLV/20 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 49W/830 SLV/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 49W/830 UNP/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |


More data see next page

| Commercial product name | LLMF 2000 h | LLMF 4000 h | LLMF 6000 h | LLMF 8000 h | LLMF 12000 h | LLMF 16000 h | LLMF 20000 h |
|------------------------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|
| | Rated (%) | Rated (%) | Rated (%) | Rated (%) | Rated (%) | Rated (%) | Rated (%) |
| MASTER TL5 HO 49W/840 SLV/20 | 96 | 95 | 94 | 93 | 92 | 90 | 90 |
| MASTER TL5 HO 49W/840 SLV/40 | 96 | 95 | 94 | 93 | 92 | 90 | 90 |
| MASTER TL5 HO 49W/840 UNP/40 | 96 | 95 | 94 | 93 | 92 | 90 | 90 |
| MASTER TL5 HO 49W/865 SLV/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 54W/830 SLV/20 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 54W/830 SLV/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 54W/830 UNP/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 54W/840 SLV/20 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 54W/840 SLV/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 54W/840 UNP/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 54W/865 SLV/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 80W/830 SLV/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 80W/830 UNP/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 80W/840 SLV/20 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 80W/840 SLV/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 80W/840 UNP/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |
| MASTER TL5 HO 80W/865 SLV/40 | 96 | 95 | 94 | 93 | 92 | 91 | 90 |


Temperature data

| Commercial product name | Correlated Color Temperature | Design Temperature | Default Ambient Temperature |
|------------------------------|------------------------------|--------------------|-----------------------------|
| | (K) | (°C) | (°C) |
| MASTER TL5 HO 24W/830 SLV/40 | 3,000 | 35 | 25 |
| MASTER TL5 HO 24W/830 UNP/40 | 3,000 | 35 | 25 |
| MASTER TL5 HO 24W/840 1SL/20 | 4,000 | 35 | 25 |
| MASTER TL5 HO 24W/840 SLV/40 | 4,000 | 35 | 25 |
| MASTER TL5 HO 24W/840 UNP/40 | 4,000 | 35 | 25 |
| MASTER TL5 HO 24W/865 SLV/40 | 6,500 | 35 | 25 |
| MASTER TL5 HO 39W/830 SLV/40 | 3,000 | 35 | 25 |
| MASTER TL5 HO 39W/840 SLV/20 | 4,000 | 35 | 25 |
| MASTER TL5 HO 39W/840 SLV/40 | 4,000 | 35 | 25 |
| MASTER TL5 HO 39W/840 UNP/40 | 4,000 | 35 | 25 |
| MASTER TL5 HO 39W/865 SLV/40 | 6,500 | 35 | 25 |
| MASTER TL5 HO 49W/830 SLV/20 | 3,000 | 35 | 25 |
| MASTER TL5 HO 49W/830 SLV/40 | 3,000 | 35 | 25 |
| MASTER TL5 HO 49W/830 UNP/40 | 3,000 | 35 | 25 |
| MASTER TL5 HO 49W/840 SLV/20 | 4,000 | 35 | 25 |
| MASTER TL5 HO 49W/840 SLV/40 | 4,000 | 35 | 25 |
| MASTER TL5 HO 49W/840 UNP/40 | 4,000 | 35 | 25 |
| MASTER TL5 HO 49W/865 SLV/40 | 6,500 | 35 | 25 |
| MASTER TL5 HO 54W/830 SLV/20 | 3,000 | 35 | 25 |
| MASTER TL5 HO 54W/830 SLV/40 | 3,000 | 35 | 25 |
| MASTER TL5 HO 54W/830 UNP/40 | 3,000 | 35 | 25 |
| MASTER TL5 HO 54W/840 SLV/20 | 4,000 | 35 | 25 |
| MASTER TL5 HO 54W/840 SLV/40 | 4,000 | 35 | 25 |
| MASTER TL5 HO 54W/840 UNP/40 | 4,000 | 35 | 25 |
| MASTER TL5 HO 54W/865 SLV/40 | 6,500 | 35 | 25 |
| MASTER TL5 HO 80W/830 SLV/40 | 3,000 | 35 | 25 |
| MASTER TL5 HO 80W/830 UNP/40 | 3,000 | 35 | 25 |
| MASTER TL5 HO 80W/840 SLV/20 | 4,000 | 35 | 25 |
| MASTER TL5 HO 80W/840 SLV/40 | 4,000 | 35 | 25 |
| MASTER TL5 HO 80W/840 UNP/40 | 4,000 | 35 | 25 |
| MASTER TL5 HO 80W/865 SLV/40 | 6,500 | 35 | 25 |

Environmental data & ETIM group & Design Requirements

| Commercial product name | Energy Consumption kWh/1000 h |  | Mercury (Hg) Content | ETIM Group ² |
|------------------------------|-------------------------------|---|----------------------|-------------------------|
| | (kWh) | | (mg) | |
| MASTER TL5 HO 24W/830 SLV/40 | 25 | A | 1.4 | EC000108 |
| MASTER TL5 HO 24W/830 UNP/40 | 25 | A | 1.4 | EC000108 |
| MASTER TL5 HO 24W/840 1SL/20 | 25 | A | 1.4 | EC000108 |

More data see next page

| Commercial product name | Energy Consumption kWh/ 1000 h |  | Mercury (Hg) Content | ETIM Group ² |
|------------------------------|-----------------------------------|---|----------------------|-------------------------|
| | (kWh) | | (mg) | |
| MASTER TL5 HO 24W/840 SLV/40 | 25 | A | 1.4 | EC000108 |
| MASTER TL5 HO 24W/840 UNP/40 | 25 | A | 1.4 | EC000108 |
| MASTER TL5 HO 24W/865 SLV/40 | 25 | A | 1.4 | EC000108 |
| MASTER TL5 HO 39W/830 SLV/40 | 42 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 39W/840 SLV/20 | 42 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 39W/840 SLV/40 | 42 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 39W/840 UNP/40 | 42 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 39W/865 SLV/40 | 42 | A | 1.4 | EC000108 |
| MASTER TL5 HO 49W/830 SLV/20 | 54 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 49W/830 SLV/40 | 54 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 49W/830 UNP/40 | 54 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 49W/840 SLV/20 | 54 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 49W/840 SLV/40 | 54 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 49W/840 UNP/40 | 54 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 49W/865 SLV/40 | 54 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 54W/830 SLV/20 | 59 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 54W/830 SLV/40 | 59 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 54W/830 UNP/40 | 59 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 54W/840 SLV/20 | 59 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 54W/840 SLV/40 | 59 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 54W/840 UNP/40 | 59 | A+ | 1.4 | EC000108 |
| MASTER TL5 HO 54W/865 SLV/40 | 59 | A | 1.4 | EC000108 |
| MASTER TL5 HO 80W/830 SLV/40 | 88 | A | 1.4 | EC000108 |
| MASTER TL5 HO 80W/830 UNP/40 | 88 | A | 1.4 | EC000108 |
| MASTER TL5 HO 80W/840 SLV/20 | 88 | A | 1.4 | EC000108 |
| MASTER TL5 HO 80W/840 SLV/40 | 88 | A | 1.4 | EC000108 |
| MASTER TL5 HO 80W/840 UNP/40 | 88 | A | 1.4 | EC000108 |
| MASTER TL5 HO 80W/865 SLV/40 | 88 | A | 1.4 | EC000108 |

² 'ETIM Group' value description(s): 'EC000108' = Fluorescent Lamp

Rated Survival Factor data

| Commercial product name | LSF Preheat 2000 h Rated | LSF Preheat 4000 h Rated | LSF Preheat 6000 h Rated | LSF Preheat 8000 h Rated | LSF Preheat 12000 h Rated | LSF Preheat 16000 h Rated | LSF Preheat 20000 h Rated |
|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|
| | (%) | (%) | (%) | (%) | (%) | (%) | (%) |
| MASTER TL5 HO 24W/830 SLV/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 24W/830 UNP/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 24W/840 1SL/20 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 24W/840 SLV/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 24W/840 UNP/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 24W/865 SLV/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 39W/830 SLV/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 39W/840 SLV/20 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 39W/840 SLV/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 39W/840 UNP/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 39W/865 SLV/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 49W/830 SLV/20 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 49W/830 SLV/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 49W/830 UNP/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 49W/840 SLV/20 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 49W/840 SLV/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 49W/840 UNP/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 49W/865 SLV/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 54W/830 SLV/20 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 54W/830 SLV/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 54W/830 UNP/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 54W/840 SLV/20 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 54W/840 SLV/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 54W/840 UNP/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 54W/865 SLV/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 80W/830 SLV/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 80W/830 UNP/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |

More data see next page




| Commercial product name | LSF Preheat 2000 h Rated | LSF Preheat 4000 h Rated | LSF Preheat 6000 h Rated | LSF Preheat 8000 h Rated | LSF Preheat 12000 h Rated | LSF Preheat 16000 h Rated | LSF Preheat 20000 h Rated |
|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|
| | (%) | (%) | (%) | (%) | (%) | (%) | (%) |
| MASTER TL5 HO 80W/840 SLV/20 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 80W/840 SLV/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 80W/840 UNP/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |
| MASTER TL5 HO 80W/865 SLV/40 | 99 | 99 | 99 | 99 | 99 | 97 | 84 |


System data

| Commercial product name | Lamp system description |
|------------------------------|-------------------------|
| MASTER TL5 HO 24W/830 SLV/40 | High Output |
| MASTER TL5 HO 24W/830 UNP/40 | High Output |
| MASTER TL5 HO 24W/840 1SL/20 | High Output |
| MASTER TL5 HO 24W/840 SLV/40 | High Output |
| MASTER TL5 HO 24W/840 UNP/40 | High Output |
| MASTER TL5 HO 24W/865 SLV/40 | High Output |
| MASTER TL5 HO 39W/830 SLV/40 | High Output |
| MASTER TL5 HO 39W/840 SLV/20 | High Output |
| MASTER TL5 HO 39W/840 SLV/40 | High Output |
| MASTER TL5 HO 39W/840 UNP/40 | High Output |
| MASTER TL5 HO 39W/865 SLV/40 | High Output |
| MASTER TL5 HO 49W/830 SLV/20 | High Output |
| MASTER TL5 HO 49W/830 SLV/40 | High Output |
| MASTER TL5 HO 49W/830 UNP/40 | High Output |
| MASTER TL5 HO 49W/840 SLV/20 | High Output |
| MASTER TL5 HO 49W/840 SLV/40 | High Output |
| MASTER TL5 HO 49W/840 UNP/40 | High Output |
| MASTER TL5 HO 49W/865 SLV/40 | High Output |
| MASTER TL5 HO 54W/830 SLV/20 | High Output |
| MASTER TL5 HO 54W/830 SLV/40 | High Output |
| MASTER TL5 HO 54W/830 UNP/40 | High Output |
| MASTER TL5 HO 54W/840 SLV/20 | High Output |
| MASTER TL5 HO 54W/840 SLV/40 | High Output |
| MASTER TL5 HO 54W/840 UNP/40 | High Output |
| MASTER TL5 HO 54W/865 SLV/40 | High Output |
| MASTER TL5 HO 80W/830 SLV/40 | High Output |
| MASTER TL5 HO 80W/830 UNP/40 | High Output |
| MASTER TL5 HO 80W/840 SLV/20 | High Output |
| MASTER TL5 HO 80W/840 SLV/40 | High Output |
| MASTER TL5 HO 80W/840 UNP/40 | High Output |
| MASTER TL5 HO 80W/865 SLV/40 | High Output |

Operating data

| Commercial product name | Default Burning Position | Default Gear |  | Default Cycle Time |
|------------------------------|--------------------------|--------------|---|--------------------|
| MASTER TL5 HO 24W/830 SLV/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 24W/830 UNP/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 24W/840 1SL/20 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 24W/840 SLV/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 24W/840 UNP/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 24W/865 SLV/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 39W/830 SLV/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 39W/840 SLV/20 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 39W/840 SLV/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 39W/840 UNP/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 39W/865 SLV/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 49W/830 SLV/20 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 49W/830 SLV/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 49W/830 UNP/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 49W/840 SLV/20 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 49W/840 SLV/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 49W/840 UNP/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 49W/865 SLV/40 | Horizontal | Electronic | Yes | 3 hour cycle |

More data see next page

| Commercial product name | Default Burning Position | Default Gear |  | Default Cycle Time |
|------------------------------|--------------------------|--------------|---|--------------------|
| MASTER TL5 HO 54W/830 SLV/20 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 54W/830 SLV/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 54W/830 UNP/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 54W/840 SLV/20 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 54W/840 SLV/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 54W/840 UNP/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 54W/865 SLV/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 80W/830 SLV/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 80W/830 UNP/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 80W/840 SLV/20 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 80W/840 SLV/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 80W/840 UNP/40 | Horizontal | Electronic | Yes | 3 hour cycle |
| MASTER TL5 HO 80W/865 SLV/40 | Horizontal | Electronic | Yes | 3 hour cycle |

Miscellaneous & General data

| Commercial product name | Bulb Shape ³ | Cap-Base | Cap-Base Information ⁴ | Features ⁵ | ILCOS Code |
|------------------------------|-------------------------|----------|-----------------------------------|-----------------------|-----------------------------|
| MASTER TL5 HO 24W/830 SLV/40 | T5 | G5 | GREENPLATE | | FDH-24/30/1B-L/P-G5-16/550 |
| MASTER TL5 HO 24W/830 UNP/40 | T5 | G5 | GREENPLATE | | FDH-24/30/1B-L/P-G5-16/550 |
| MASTER TL5 HO 24W/840 1SL/20 | T5 | G5 | GREENPLATE | | FDH-24/40/1B-L/P-G5-16/550 |
| MASTER TL5 HO 24W/840 SLV/40 | T5 | G5 | GREENPLATE | | FDH-24/40/1B-L/P-G5-16/550 |
| MASTER TL5 HO 24W/840 UNP/40 | T5 | G5 | GREENPLATE | | FDH-24/40/1B-L/P-G5-16/550 |
| MASTER TL5 HO 24W/865 SLV/40 | T5 | G5 | GREENPLATE | | FDH-24/65/1B-L/P-G5-16/550 |
| MASTER TL5 HO 39W/830 SLV/40 | T5 | G5 | GREENPLATE | | FDH-39/30/1B-L/P-G5-16/850 |
| MASTER TL5 HO 39W/840 SLV/20 | T5 | G5 | GREENPLATE | | FDH-39/40/1B-L/P-G5-16/850 |
| MASTER TL5 HO 39W/840 SLV/40 | T5 | G5 | GREENPLATE | | FDH-39/40/1B-L/P-G5-16/850 |
| MASTER TL5 HO 39W/840 UNP/40 | T5 | G5 | GREENPLATE | | FDH-39/40/1B-L/P-G5-16/850 |
| MASTER TL5 HO 39W/865 SLV/40 | T5 | G5 | GREENPLATE | | FDH-39/65/1B-L/P-G5-16/850 |
| MASTER TL5 HO 49W/830 SLV/20 | T5 | G5 | GREENPLATE | | FDH-49/30/1B-L/P-G5-16/1450 |
| MASTER TL5 HO 49W/830 SLV/40 | T5 | G5 | GREENPLATE | | FDH-49/30/1B-L/P-G5-16/1450 |
| MASTER TL5 HO 49W/830 UNP/40 | T5 | G5 | GREENPLATE | | FDH-49/30/1B-L/P-G5-16/1450 |
| MASTER TL5 HO 49W/840 SLV/20 | T5 | G5 | GREENPLATE | | FDH-49/40/1B-L/P-G5-16/1450 |
| MASTER TL5 HO 49W/840 SLV/40 | T5 | G5 | GREENPLATE | | FDH-49/40/1B-L/P-G5-16/1450 |
| MASTER TL5 HO 49W/840 UNP/40 | T5 | G5 | GREENPLATE | | FDH-49/40/1B-L/P-G5-16/1450 |
| MASTER TL5 HO 49W/865 SLV/40 | T5 | G5 | GREENPLATE | | FDH-49/65/1B-L/P-G5-16/1450 |
| MASTER TL5 HO 54W/830 SLV/20 | T5 | G5 | GREENPLATE | | FDH-54/30/1B-L/P-G5-16/1150 |
| MASTER TL5 HO 54W/830 SLV/40 | T5 | G5 | GREENPLATE | | FDH-54/30/1B-L/P-G5-16/1150 |
| MASTER TL5 HO 54W/830 UNP/40 | T5 | G5 | GREENPLATE | | FDH-54/30/1B-L/P-G5-16/1150 |
| MASTER TL5 HO 54W/840 SLV/20 | T5 | G5 | GREENPLATE | | FDH-54/40/1B-L/P-G5-16/1150 |
| MASTER TL5 HO 54W/840 SLV/40 | T5 | G5 | GREENPLATE | | FDH-54/40/1B-L/P-G5-16/1150 |
| MASTER TL5 HO 54W/840 UNP/40 | T5 | G5 | GREENPLATE | | FDH-54/40/1B-L/P-G5-16/1150 |
| MASTER TL5 HO 54W/865 SLV/40 | T5 | G5 | GREENPLATE | | FDH-54/65/1B-L/P-G5-16/1150 |
| MASTER TL5 HO 80W/830 SLV/40 | T5 | G5 | GREENPLATE | | FDH-80/30/1B-L/P-G5-16/1450 |
| MASTER TL5 HO 80W/830 UNP/40 | T5 | G5 | GREENPLATE | | FDH-80/30/1B-L/P-G5-16/1450 |
| MASTER TL5 HO 80W/840 SLV/20 | T5 | G5 | GREENPLATE | HO Alto [®] | FDH-80/40/1B-L/P-G5-16/1450 |
| MASTER TL5 HO 80W/840 SLV/40 | T5 | G5 | GREENPLATE | HO Alto [®] | FDH-80/40/1B-L/P-G5-16/1450 |
| MASTER TL5 HO 80W/840 UNP/40 | T5 | G5 | GREENPLATE | HO Alto [®] | FDH-80/40/1B-L/P-G5-16/1450 |
| MASTER TL5 HO 80W/865 SLV/40 | T5 | G5 | GREENPLATE | | FDH-80/65/1B-L/P-G5-16/1450 |

³ 'Bulb Shape' value description(s): 'T5' = 16 mm (T5)

⁴ 'Cap-Base Information' value description(s): 'GREENPLATE' = Green Plate

⁵ 'Features' value description(s): 'HO Alto[®]' = High Output Alto

Logistic data

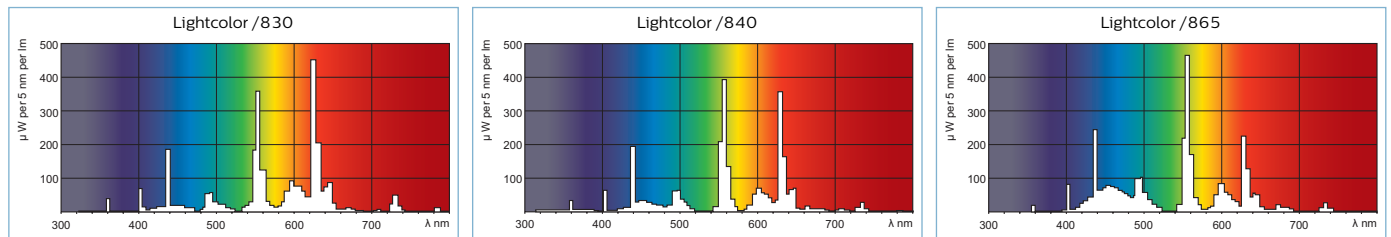
| Commercial product name | SAP Packing (Piece)/Packaging configuration ⁶ | Numerator - Packs per outer box | Ordering number 8711500... | Material Nr. (12NC) | SAP Gross Weight (Piece) | Net Weight (Piece) | EAN-3 8711500... |
|------------------------------|--|---------------------------------|----------------------------|---------------------|--------------------------|--------------------|------------------|
| | | | | (9279...) | (g) | (g) | |
| MASTER TL5 HO 24W/830 SLV/40 | SL / 40 | 40 | 63958555 | 28083055 | 63.975 | 52.0 | 867759 |
| MASTER TL5 HO 24W/830 UNP/40 | UNP / 40 | 40 | 63698055 | 28083018 | 61.275 | 52.0 | 636997 |
| MASTER TL5 HO 24W/840 1SL/20 | SL / 20 | 20 | 63960805 | 28084061 | 64.950 | 52.0 | 264800 |
| MASTER TL5 HO 24W/840 SLV/40 | SL / 40 | 40 | 63960855 | 28084055 | 63.975 | 52.0 | 867841 |
| MASTER TL5 HO 24W/840 UNP/40 | UNP / 40 | 40 | 63704855 | 28084018 | 61.275 | 52.0 | 637055 |
| MASTER TL5 HO 24W/865 SLV/40 | SL / 40 | 40 | 64393355 | 28086555 | 63.975 | 52.0 | 867858 |

More data see next page

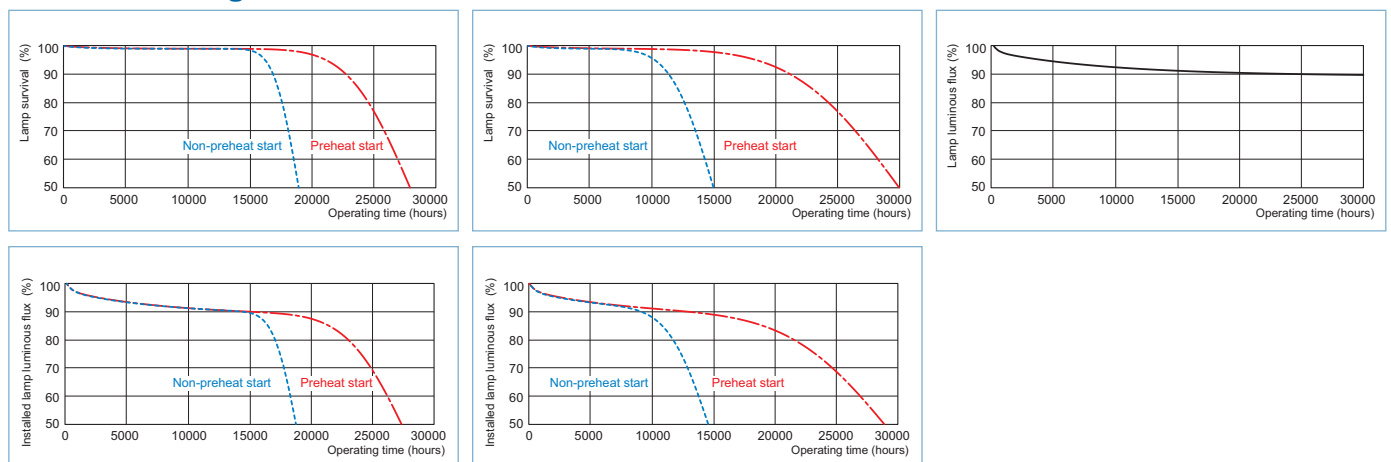
| Commercial product name | SAP Packing (Piece)/Packaging configuration ⁶ | Numerator - Packs per outer box | Ordering number 8711500... | Material Nr. (12NC) (9279...) | SAP Gross Weight (Piece) (g) | Net Weight (Piece) (g) | EAN-3 8711500... |
|------------------------------|--|---------------------------------|----------------------------|-------------------------------|------------------------------|------------------------|------------------|
| MASTER TL5 HO 39W/830 SLV/40 | SL / 40 | 40 | 63962255 | 28583055 | 96.875 | 79.2 | 260031 |
| MASTER TL5 HO 39W/840 SLV/20 | SL / 20 | 20 | 63964605 | 28584061 | 98.050 | 79.2 | 264572 |
| MASTER TL5 HO 39W/840 SLV/40 | SL / 40 | 40 | 63964655 | 28584055 | 96.875 | 79.2 | 868398 |
| MASTER TL5 HO 39W/840 UNP/40 | UNP / 40 | 40 | 63722255 | 28584018 | 93.050 | 79.2 | 637239 |
| MASTER TL5 HO 39W/865 SLV/40 | SL / 40 | 40 | 64387255 | 28586555 | 96.875 | 79.2 | 868503 |
| MASTER TL5 HO 49W/830 SLV/20 | SL / 20 | 20 | 63954705 | 27583061 | 156.950 | 127.4 | 264503 |
| MASTER TL5 HO 49W/830 SLV/40 | SL / 40 | 40 | 63954755 | 27583055 | 157.925 | 128.7 | 867711 |
| MASTER TL5 HO 49W/830 UNP/40 | UNP / 40 | 40 | 63752955 | 27583018 | 146.800 | 127.4 | 637536 |
| MASTER TL5 HO 49W/840 SLV/20 | SL / 20 | 20 | 63956105 | 27584061 | 156.950 | 127.4 | 264510 |
| MASTER TL5 HO 49W/840 SLV/40 | SL / 40 | 40 | 63956155 | 27584055 | 157.925 | 128.7 | 867728 |
| MASTER TL5 HO 49W/840 UNP/40 | UNP / 40 | 40 | 63758155 | 27584018 | 146.800 | 127.4 | 637598 |
| MASTER TL5 HO 49W/865 SLV/40 | SL / 40 | 40 | 64389655 | 27586555 | 156.625 | 127.4 | 867735 |
| MASTER TL5 HO 54W/830 SLV/20 | SL / 20 | 20 | 64316205 | 29083061 | 130.100 | 105.8 | 264213 |
| MASTER TL5 HO 54W/830 SLV/40 | SL / 40 | 40 | 64316255 | 29083055 | 129.300 | 105.8 | 868824 |
| MASTER TL5 HO 54W/830 UNP/40 | UNP / 40 | 40 | 63734555 | 29083018 | 121.625 | 105.8 | 637352 |
| MASTER TL5 HO 54W/840 SLV/20 | SL / 20 | 20 | 64318605 | 29084061 | 130.100 | 105.8 | 264220 |
| MASTER TL5 HO 54W/840 SLV/40 | SL / 40 | 40 | 64318655 | 29084055 | 129.300 | 105.8 | 868831 |
| MASTER TL5 HO 54W/840 UNP/40 | UNP / 40 | 40 | 63740655 | 29084018 | 121.625 | 105.8 | 637413 |
| MASTER TL5 HO 54W/865 SLV/40 | SL / 40 | 40 | 64391955 | 29086555 | 129.300 | 105.8 | 868848 |
| MASTER TL5 HO 80W/830 SLV/40 | SL / 40 | 40 | 71040655 | 29583057 | 156.625 | 127.4 | 868855 |
| MASTER TL5 HO 80W/830 UNP/40 | UNP / 40 | 40 | 64436755 | 29583018 | 146.800 | 127.4 | 644374 |
| MASTER TL5 HO 80W/840 SLV/20 | SL / 20 | 20 | 71045105 | 29584061 | 156.950 | 127.4 | 894045 |
| MASTER TL5 HO 80W/840 SLV/40 | SL / 40 | 40 | 71045155 | 29584057 | 157.925 | 128.7 | 868862 |
| MASTER TL5 HO 80W/840 UNP/40 | UNP / 40 | 40 | 64438155 | 29584018 | 146.800 | 127.4 | 644398 |
| MASTER TL5 HO 80W/865 SLV/40 | SL / 40 | 40 | 71047555 | 29586557 | 156.625 | 127.4 | 868879 |

⁶ 'SAP Packing (Piece)/Packaging configuration' value description(s): 'SL / 20' = SLEEVE, 'SL / 40' = SLEEVE, 'UNP / 40' = UNPACKED

Spectral power distribution



Performance diagrams



Cap-Base Overview

