



An affordable TL5 lamp with high light output

TL5 Essential HO Super 80

Low-pressure mercury discharge T5 lamp with tubular 16 mm envelope and high lumen output.

Benefits

- Allows system miniaturization and maximum freedom in luminaire design
- Optimized for installations requiring high luminous flux
- Good color rendering

Features

- Designed for high lumen output and system miniaturization
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear
- Maximum lumen output reached at approx. 35 °C in free burning position if an HF electronic ballast without additional electrode heating is used
- Can be ignited from -10 °C to +50 °C

Application

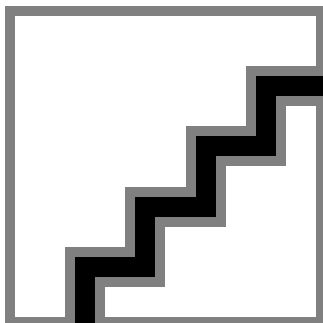
- Industry, public buildings, airports, indoor sports facilities, warehouses

TL5 Essential HO Super 80

Versions



Dimensional drawing



| Product | D (max) | A (max) | B (max) | B (min) | C (max) |
|------------------------------------|---------|-----------|-----------|-----------|-----------|
| TL5 Essential HO 54W/865 1SL/40 | 17.0 mm | 1149.0 mm | 1156.1 mm | 1153.7 mm | 1163.2 mm |
| TL5 Essential HO 54W/850 1SL/40 | 17.0 mm | 1149.0 mm | 1156.1 mm | 1153.7 mm | 1163.2 mm |

TL5 Essential HO Super 80

| Approval and Application | |
|------------------------------------|---------|
| Energy Efficiency Label (EEL) | A |
| Controls and Dimming | |
| Dimmable | yes |
| Operating and Electrical | |
| Lamp Current (Nom) | 0.460 A |
| Power (Rated) (Nom) | 54 W |
| General Information | |
| Cap-Base | G5 |
| Life To 50% Failures Preheat (Nom) | 20000 h |
| LSF Preheat 16000 h Rated | 70 % |
| LSF Preheat 20000 h Rated | 50 % |
| LSF Preheat 2000 h Rated | 98 % |
| LSF Preheat 4000 h Rated | 97 % |
| LSF Preheat 6000 h Rated | 95 % |
| LSF Preheat 8000 h Rated | 93 % |
| Light Technical | |
| Colour Rendering Index (Max) | 85 |
| Colour Rendering Index (Min) | 80 |
| Colour Rendering Index (Nom) | 82 |
| LLMF 16000 h Rated | 90 % |
| LLMF 2000 h Rated | 95 % |
| LLMF 4000 h Rated | 92 % |
| LLMF 8000 h Rated | 90 % |
| Mechanical and Housing | |
| Bulb Shape | T5 |

Approval and Application

| Order Code | Full Product Name | Energy Consumption kWh/ 1000 h | Mercury (Hg) Content (Nom) |
|--------------|---------------------------------|-----------------------------------|-------------------------------|
| 927929385040 | TL5 Essential HO 54W/850 1SL/40 | - | 2.2 mg |
| 927929386540 | TL5 Essential HO 54W/865 1SL/40 | 54 kWh | 2.0 mg |

Light Technical (1/2)

| Order Code | Full Product Name | Colour Code | Colour Designation | Correlated | |
|--------------|---------------------------------|-------------|--------------------|--------------------------|--------------------|
| | | | | Colour Temperature (Nom) | LLMF 12000 h Rated |
| 927929385040 | TL5 Essential HO 54W/850 1SL/40 | 850 | 850 | 5000 K | - |

| Order Code | Full Product Name | Colour Code | Colour Designation | Correlated | |
|--------------|---------------------------------|-------------|--------------------|--------------------------|--------------------|
| | | | | Colour Temperature (Nom) | LLMF 12000 h Rated |
| 927929386540 | TL5 Essential HO 54W/865 1SL/40 | 865 | Cool Daylight | 6500 K | 90 % |

Light Technical (2/2)

| Order Code | Full Product Name | LLMF Rated | Luminous Efficacy (@) | | | |
|--------------|-------------------|------------|-----------------------|-----------------|---------------------------------|---------------------|
| | | | 6000 h Rated (Nom) | Max Lumen (Nom) | Luminous Efficacy (rated) (Nom) | Luminous Flux (Nom) |
| 927929385040 | TL5 Essential HO | - | 90 lm/W | 84 lm/W | 4850 lm | 4560 lm |

| Order Code | Full Product Name | LLMF Rated | Luminous Efficacy (@) | | | |
|------------|-------------------|------------|-----------------------|-----------------|---------------------------------|---------------------|
| | | | 6000 h Rated (Nom) | Max Lumen (Nom) | Luminous Efficacy (rated) (Nom) | Luminous Flux (Nom) |
| | 54W/850 1SL/40 | | | | | |

TL5 Essential HO Super 80

| Order Code | Full Product Name | Luminous Efficacy (@) | | | | |
|--------------|------------------------|-----------------------|-----------|-----------|----------|----------|
| | | LLMF | Max | Luminous | Luminous | Luminous |
| | | 6000 | Lumen, | Efficacy | Luminous | Luminous |
| | | h | Rated) | (rated) | Flux | (Rated) |
| | | Rated | (Nom) | (Nom) | (Nom) | (Nom) |
| 927929386540 | TL5 Essential HO | 91 % | 87.4 lm/W | 81.9 lm/W | 4700 lm | 4420 lm |

| Order Code | Full Product Name | Luminous Efficacy (@) | | | | |
|------------|-------------------|-----------------------|--------|----------|----------|----------|
| | | LLMF | Max | Luminous | Luminous | Luminous |
| | | 6000 | Lumen, | Efficacy | Luminous | Luminous |
| | | h | Rated) | (rated) | Flux | (Rated) |
| | | Rated | (Nom) | (Nom) | (Nom) | (Nom) |
| | 54W/865 1SL/40 | | | | | |

Temperature

| Order Code | Full Product Name | Design Temperature (Nom) |
|--------------|---------------------------------|--------------------------|
| 927929385040 | TL5 Essential HO 54W/850 1SL/40 | - |

| Order Code | Full Product Name | Design Temperature (Nom) |
|--------------|---------------------------------|--------------------------|
| 927929386540 | TL5 Essential HO 54W/865 1SL/40 | 30 °C |

