



Product Specification

Document No.:

Version: A0

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model no. **PLT-50354, PLT-50355, PLT-50356, PLT-50357**

1. DESCRIPTION:

| | |
|------------------|-----------------------------------|
| LAMP TYPE: | Linear T5 LED |
| LAMP CLASSIFIED: | Type B, Single&Double Ended, Gen2 |
| BASE TYPE: | G5 (Miniature Bi-pin) |
| EQUIVALENT | / |
| WATTAGE: | 9W |
| CCT: | 3000K,3500K,4000K,5000K,6500K* |
| DIFFUSER TYPE: | internal coated glass tube |
| WARRANTY: | 5 YEARS |



2. PRODUCT FEATURES

| |
|--|
| Replacement for conventional T5HO fluorescent lamp |
| Direct wire, 120-277Vac input |
| UL (R/C and Classified) |
| Full glass housing; no aging, no yellowing, no bending |
| Environmentally friendly: no mercury |

Suitable for dry and damp locations
Suitable for open fixtures

*6500K version available via Special Order.
Call 1-800-624-4488.

3. PERFORMANCE (If no specified, the test conditions in below items are: Ta=25°C±5°C, RH≤65%, air free)

3.1 Electrical Characteristics

| PARAMETERS | SYMBOL | MIN | RATED | MAX | UNIT | Test Condition |
|---------------------------|--------|-------|---------|-----|------|----------------|
| Input voltage | U | -- | 120~277 | -- | V | / |
| Frequency | f | -- | 50/60 | -- | Hz | / |
| Rated power | P | 8.1 | 9.0 | 9.9 | W | Vin=120,277Vac |
| Power factor | PF | 0.873 | 0.9 | -- | / | Vin=120,277Vac |
| Total Harmonic Distortion | THD | -- | 20% | 25% | / | Vin=120,277Vac |
| Starting time | t | -- | -- | 1 | s | Vin=120,277Vac |
| Flicker percent | / | -- | -- | -- | / | / |

3.2 Photometrical Characteristics

| PARAMETERS | SYMBOL | MIN | RATED | MAX | UNIT | Test Condition |
|-------------------|----------|-------|-------|------|------|----------------|
| Beam Angle | θ | -- | 180 | -- | ° | / |
| Flux @ <4000K | Φ | 1035 | 1200 | 1265 | LM | Vin=120,277Vac |
| Flux @ ≥4000K | | 1080 | 1200 | 1320 | | |
| Efficacy @ <4000K | η | 116.4 | 133.3 | -- | LM/W | |
| Efficacy @ ≥4000K | | 120.5 | 133.3 | -- | | |

3.3 Color Characteristics (refer to ANSI C78.377-2017)

Chromaticity coordinates

| CENTER POINT | CCT=3000K | X=0.4339 Y=0.4033 | / |
|--------------|------------|-------------------|---|
| | CCT=3500K | X=0.4078 Y=0.3930 | |
| | CCT=4000K | X=0.3818 Y=0.3797 | |
| | CCT=5000K | X=0.3446 Y=0.3551 | |
| | CCT=6500K* | X=0.3123 Y=0.3283 | |

| PARAMETER | SYMBOL | MIN | RATED | MAX | Unit | Test Condition |
|--------------------|--------|-----|-------|-----|------|----------------|
| Color Render Index | Ra | 80 | 82 | -- | / | / |
| R9 | R9 | 0 | 12 | -- | | |
| Color tolerance | / | -- | -- | 5 | SDCM | |

4. LUMEN MAINTENANCE & LIFE

| PARAMETERS | SYMBOL | MIN | RATED | MAX | UNIT | Test Condition |
|------------------------------|--------|-----|-------|-----|------|------------------|
| Lumen Maintenance at 6000hrs | / | -- | 95.8% | -- | / | / |
| Life | t | -- | 50000 | -- | Hrs | Ta=45C, air free |
| Warranty | / | -- | 5 | -- | Year | Ta=45C, air free |



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5. OPERATION TEMPERATURE & STORAGE TEMPERATURE

| PARAMETERS | SYMBOL | MIN | RATED | MAX | UNIT | Test Condition |
|---------------------|-----------------|-----|-------|-----|------|----------------|
| Ambient Temperature | T _A | -20 | -- | 45 | °C | / |
| Storage Temperature | T _{st} | -40 | -- | 85 | | / |

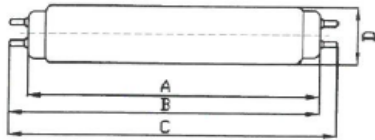
6. COMPATIBILITY

Compatible emergency drivers: PLTS-20116 & PLTS-0117

7. APPROBATION COMPLIANCE

UL1993&UL1598C, FCC part 15 class B, RoHS compliance

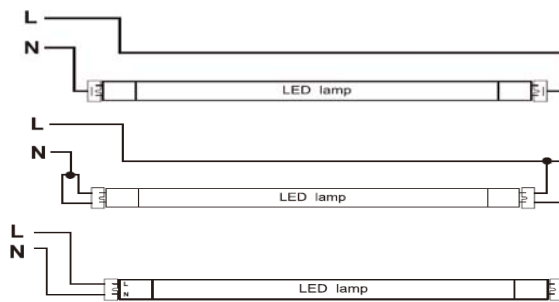
8. DIMENSIONS



| SYMBOL | MIN | TYP | MAX | UNIT |
|--------|-------|-----|-------|------|
| A | / | -- | 549.0 | mm |
| B | 553.7 | -- | 556.1 | mm |
| C | / | -- | 563.2 | mm |
| D | 18.8 | -- | 19.5 | mm |

9. Connection & Wiring

WIRING DIAGRAM



WIRING ILLUSTRATION

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11. SKUs

- PLT-50354 - 9W, 1200 Lumens, 3000K
- PLT-50355 - 9W, 1200 Lumens, 3500K
- PLT-50356 - 9W, 1200 Lumens, 4000K
- PLT-50357 - 9W, 1200 Lumens, 5000K