Date: 2024-04-19 Page 1 of 2

LED T8 Batten Replaceable 18W/18Wx2

Features

- Widely applied in factories, offices, banks, shopping centers, subways, schools and other place with high brightness and energy saving benefits
- \cdot For higher lumen applications, the LED tube can be replaced by 20W or 22W
- · Tubes can be replaceable by UL Type B LED tubes
- · Model suggestion: AC Instant, Universal NA & Global Pro



Standards





Applications

| ∰ Home | Office | Shopping mall | (hotel | Ψ Supermarket | III Restaurant | P Parking |
|-----------|---------|---------------|---------|-------------------------|--------------------------|--------------|
| | Factory | + Hospital | Gallery | Museum | Airport | Station |

| Technical Data | | | | |
|----------------------|---------------------|--|--|--|
| Electrical | | | | |
| Rated Wattage [W] | 18W / 18Wx2 | | | |
| Rated Voltage [V/Hz] | 110-130Vac, 50/60Hz | | | |
| Power Factor @120V | 0.9 | | | |

Prosperity Lamps & Components Ltd.

Tel: (852) 2511 0022 Fax: (852) 2511 0082 Web: www.prosperitylamps.com Email: info@prosperitylamps.com



Product Series Datasheet

Date: 2024-04-19 Page 2 of 2

| Model | | |
|---|--------------------------------------|---|
| Model NL121A-18W/8XX 18W NL122A-18Wx2/8XX 18Wx2 Luminous Flux [Im] 18W 1450Im @3000K 1500Im @4000K 1550Im @5000K 1600Im @6500K 1600Im @6500K 18Wx2 2800Im @3000K 2850Im @4000K 2900Im @5000K 2900Im @5000K 2980Im @6500K Performance 5DCM <6 | Input Current [mA] @120V | 167 / 333 |
| NL121A-18W/8XX | LED | SMD |
| NL122A-18Wx2/8XX | Model | |
| Luminous Flux [Im] 18W 1450Im @3000K 1500Im @4000K 1550Im @5000K 1600Im @6500K 18Wx2 2800Im @3000K 2850Im @4000K 2900Im @5000K 2980Im @6500K Performance SDCM <6 | NL121A-18W/8XX | 18W |
| 18W 1450Im @3000K 1500Im @4000K 1550Im @5000K 1600Im @6500K 1600Im @6500K 18Wx2 2800Im @3000K 2850Im @4000K 2900Im @5000K 2900Im @5000K 2980Im @6500K Performance ************************************ | NL122A-18Wx2/8XX | 18Wx2 |
| 1500lm @4000K 1550lm @5000K 1550lm @5000K 1600lm @6500K 1600lm @6500K 18Wx2 2800lm @3000K 2850lm @4000K 2900lm @5000K 2980lm @6500K 2850m @6500M @65 | Luminous Flux [lm] | |
| 1550lm @5000K 1600lm @6500K 18Wx2 2800lm @3000K 2850lm @4000K 2990lm @5000K 2990lm @5000K 2990lm @5000K 2990lm @5000K 2990lm @5000K 2990lm @5000K 2990lm @6500K 2980lm @6500K 2980lm @6500K 2980lm @6500K 2980lm @6500K 2980lm @6500K 2980lm @6500K 2080m @6500M @6 | 18W | 1450lm @3000K |
| 1600lm @6500K 18Wx2 | | 1500lm @4000K |
| 18Wx2 2800Im @3000K 2850Im @4000K 2900Im @5000K 2980Im @6500K 2980Im @6500K Performance SDCM <6 | | 1550lm @5000K |
| 2850Im @4000K 2900Im @5000K 2980Im @6500K Performance SDCM <6 Estimated Yearly Energy Cost [\$USD] 2.17 / 4.34 Luminous Efficacy [Im/W] 78-89 Color Rendering Index [Ra] ≥80 Color Maintenance [In] >6000 Life [Yrs] (based on 3hrs/day) 46 Lumen Maintenance at 6000hrs >0.8 Rapid Cycle Stress >15,000 cycles Start Time [sec] <0.5 LED Failure <5% Mechanical Diameter D [in] Φ2.2 Length L [in] 48 Width W [in] 1.57 / 3.15 Material Sheet steel, white powder coated Standard Compliance ANSI UL8750, UL1993, UL1598, C82.77-2002, C78.377-2008 Mercury Content [mg] 0.0 Other Dimmable [Y/N] N Operation Temperature -20°C ~ 50°C | | 1600lm @6500K |
| 2900lm @5000K 2980lm @6500K Performance SDCM <6 | 18Wx2 | 2800lm @3000K |
| 2980Im @6500K Performance SDCM <6 | | 2850lm @4000K |
| Performance SDCM <6 | | 2900lm @5000K |
| SDCM <6 | | 2980lm @6500K |
| Estimated Yearly Energy Cost [\$USD] 2.17 / 4.34 Luminous Efficacy [Im/W] 78-89 Color Rendering Index [Ra] ≥80 Color Maintenance [hr] >6000 Life [Yrs] (based on 3hrs/day) 46 Lumen Maintenance at 6000hrs >0.8 Rapid Cycle Stress >15,000 cycles Start Time [sec] <0.5 LED Failure <5% Mechanical Diameter D [in] Φ2.2 Length L [in] 48 Width W [in] 1.57 / 3.15 Material Sheet steel, white powder coated Standard Compliance ANSI UL8750, UL1993, UL1598, C82.77-2002, C78.377-2008 Mercury Content [mg] 0.0 Other Dimmable [Y/N] N Operation Temperature -20°C ~ 50°C | Performance | |
| Luminous Efficacy [Im/W] 78-89 Color Rendering Index [Ra] ≥80 Color Maintenance [hr] >6000 Life [Yrs] (based on 3hrs/day) 46 Lumen Maintenance at 6000hrs >0.8 Rapid Cycle Stress >15,000 cycles Start Time [sec] <0.5 | SDCM | <6 |
| Color Rendering Index [Ra] ≥80 Color Maintenance [hr] >6000 Life [Yrs] (based on 3hrs/day) 46 Lumen Maintenance at 6000hrs >0.8 Rapid Cycle Stress >15,000 cycles Start Time [sec] <0.5 | Estimated Yearly Energy Cost [\$USD] | 2.17 / 4.34 |
| Color Maintenance [hr] >6000 Life [Yrs] (based on 3hrs/day) 46 Lumen Maintenance at 6000hrs >0.8 Rapid Cycle Stress >15,000 cycles Start Time [sec] <0.5 | Luminous Efficacy [lm/W] | 78-89 |
| Life [Yrs] (based on 3hrs/day) 46 Lumen Maintenance at 6000hrs >0.8 Rapid Cycle Stress >15,000 cycles Start Time [sec] <0.5 | Color Rendering Index [Ra] | ≥80 |
| Lumen Maintenance at 6000hrs >0.8 Rapid Cycle Stress >15,000 cycles Start Time [sec] <0.5 | Color Maintenance [hr] | >6000 |
| Rapid Cycle Stress >15,000 cycles Start Time [sec] <0.5 | Life [Yrs] (based on 3hrs/day) | 46 |
| Start Time [sec] <0.5 | Lumen Maintenance at 6000hrs | >0.8 |
| LED Failure <5% | Rapid Cycle Stress | >15,000 cycles |
| Mechanical Diameter D [in] Φ2.2 Length L [in] 48 Width W [in] 1.57 / 3.15 Material Sheet steel, white powder coated Standard Compliance UL8750, UL1993, UL1598, C82.77-2002, C78.377-2008 Mercury Content [mg] 0.0 Other Dimmable [Y/N] N Operation Temperature -20°C ~ 50°C | Start Time [sec] | <0.5 |
| Diameter D [in] Φ2.2 Length L [in] 48 Width W [in] 1.57 / 3.15 Material Sheet steel, white powder coated Standard Compliance UL8750, UL1993, UL1598, C82.77-2002, C78.377-2008 Mercury Content [mg] 0.0 Other N Dimmable [Y/N] N Operation Temperature -20°C ~ 50°C | LED Failure | <5% |
| Length L [in] 48 Width W [in] 1.57 / 3.15 Material Sheet steel, white powder coated Standard Compliance UL8750, UL1993, UL1598, C82.77-2002, C78.377-2008 Mercury Content [mg] 0.0 Other N Dimmable [Y/N] N Operation Temperature -20°C ~ 50°C | Mechanical | |
| Width W [in] 1.57 / 3.15 Material Sheet steel, white powder coated Standard Compliance UL8750, UL1993, UL1598, C82.77-2002, C78.377-2008 Mercury Content [mg] 0.0 Other N Dimmable [Y/N] N Operation Temperature -20°C ~ 50°C | Diameter D [in] | Ф2.2 |
| Material Sheet steel, white powder coated Standard Compliance ANSI UL8750, UL1993, UL1598, C82.77-2002, C78.377-2008 Mercury Content [mg] 0.0 Other Dimmable [Y/N] N Operation Temperature -20°C ~ 50°C | Length L [in] | 48 |
| Standard Compliance ANSI UL8750, UL1993, UL1598, C82.77-2002, C78.377-2008 Mercury Content [mg] 0.0 Other N Dimmable [Y/N] N Operation Temperature -20°C ~ 50°C | Width W [in] | 1.57 / 3.15 |
| ANSI UL8750, UL1993, UL1598, C82.77-2002, C78.377-2008 Mercury Content [mg] 0.0 Other Dimmable [Y/N] N Operation Temperature -20°C ~ 50°C | Material | Sheet steel, white powder coated |
| Mercury Content [mg] 0.0 Other Dimmable [Y/N] N Operation Temperature -20°C ~ 50°C | Standard Compliance | |
| Other Dimmable [Y/N] N Operation Temperature -20°C ~ 50°C | ANSI | UL8750, UL1993, UL1598, C82.77-2002, C78.377-2008 |
| Dimmable [Y/N] N Operation Temperature -20°C ~ 50°C | Mercury Content [mg] | 0.0 |
| Operation Temperature -20°C ~ 50°C | Other | |
| · · · · · · · · · · · · · · · · · · · | Dimmable [Y/N] | N |
| Storage Temperature -10°C ~ 30°C | Operation Temperature | -20°C ~ 50°C |
| | Storage Temperature | -10°C ~ 30°C |