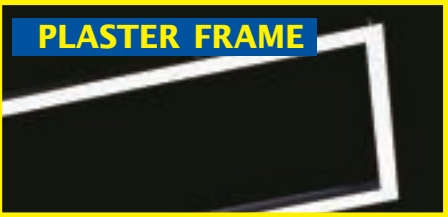


# ARMSTRONG K12 RECESSED T/BAR

## 2 x 18/36 WATT 300mm (nom) wide



**ARM236K12**



### FEATURES

- Metal surfaces pretreated and de-greased before being polyester epoxy powder coated and baked for high protection and quality finish.
- High temperature internal wiring for added safety.
- Available in a wiring configuration to suit local market requirements.
- Low profile. Depth in ceiling is only 93mm.
- Standard lay-in diffused models can be converted to hinged frame on site.
- Large 25mm cable entry provided for hard wiring. In addition the luminaires can be supplied complete with 1.5 meter flex and plug.
- A range of acrylic diffuser panels including K12, K15, K19, K19S/T silver tint and opal can be used in both lay-in or hinged frame options.
- The acrylic diffuser panels used in the standard lay-in models are supported by the face of the T/Bar and do not form part of the luminaire.
- The hinged frames used with ARM recessed T/Bar luminaires are supported by and hinged from the face of the T/Bar. It does not form part of the luminaire.
- This recessed T/bar luminaire can be converted to a recessed plaster luminaire, with the addition of a "PF" plaster frame.

### APPLICATION

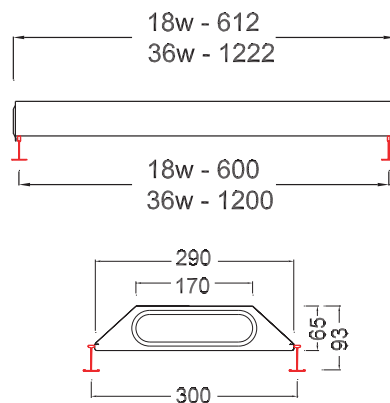
Suitable for Recessed 2 way exposed T/bar.  
 This luminaire is a type T2.1 luminaire and is supported at each end on top of the main ceiling runners.  
 Suitable for mounting in recessed plaster ceilings with additional "PF" frame.

#### Note:

The acrylic diffuser panels used for this model, and also the hinged frames are sized for a 24mm T/Bar face. Please advise Davis Lighting of any changes to this so that the correct size of diffuser or hinged frame for your project can be determined.



### DIMENSIONS



**Hinged frame**    **18w:** HFT18    **36w:** HFT36

See general catalogue "section F" for details.

**Plaster frame**    **18w:** PF18    **36w:** PF36

See general catalogue "section G" for details.

300mm (nom) wide 2 x 18/36 WATT ARMSTRONG K12 RECESSED T/BAR



Manufactured to standards – EN60598.1  
 EN60598.2.1  
 EN60598.2.2  
 EN55015 (AS/NZS 4051)  
 EMC Compliant Supplier Code N1562 (Aust)



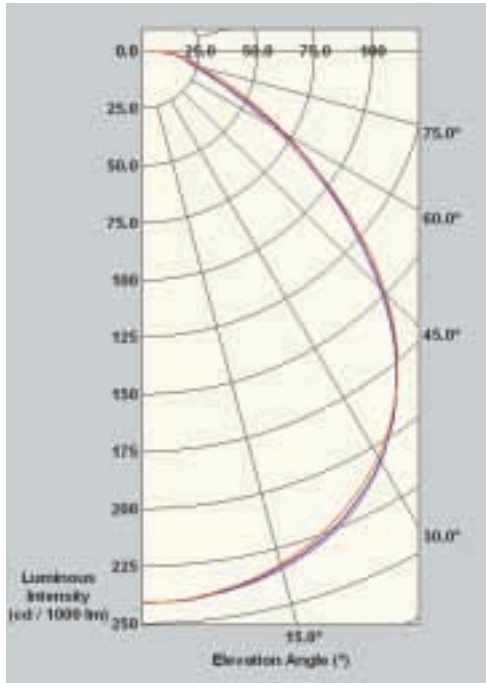
*"When your business depends on light."*

# ARMSTRONG SERIES

300mm wide Recessed T/Bar luminaire with K12 diffuser  
 Photometric data applies to 18 & 36 watt models

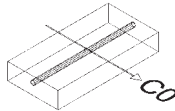
ARM218K12 T/Bar ARM236K12 T/Bar

## POLAR CURVE cd/1000lms 1 Max 241 cd in CO plane at 0° gamma



C0 Plane  
 C45 Plane  
 C90 Plane

CIE Aiming Convention  
 CO Plane across the tube



## LUMINOUS INTENSITY TABLE (cd/1000lms)

| γ Gamma | C0  | C22.5 | C45 | C67.5 | C90 |
|---------|-----|-------|-----|-------|-----|
| 0       | 241 | 241   | 241 | 241   | 241 |
| 5       | 240 | 239   | 240 | 239   | 240 |
| 10      | 238 | 237   | 237 | 236   | 237 |
| 15      | 234 | 233   | 233 | 232   | 232 |
| 20      | 228 | 227   | 227 | 225   | 225 |
| 25      | 220 | 218   | 218 | 216   | 216 |
| 30      | 207 | 206   | 206 | 205   | 205 |
| 35      | 190 | 189   | 191 | 191   | 190 |
| 40      | 171 | 169   | 171 | 172   | 172 |
| 45      | 146 | 145   | 147 | 148   | 150 |
| 50      | 119 | 117   | 120 | 122   | 123 |
| 55      | 90  | 88    | 93  | 95    | 95  |
| 60      | 64  | 67    | 69  | 70    | 72  |
| 65      | 45  | 47    | 47  | 49    | 52  |
| 70      | 33  | 35    | 31  | 35    | 37  |
| 75      | 26  | 27    | 22  | 25    | 26  |
| 80      | 22  | 20    | 18  | 18    | 18  |
| 85      | 14  | 13    | 12  | 12    | 11  |
| 90      | 0   | 0     | 0   | 0     | 0   |

LUMINOUS OPENING: 18 Watt 576 x 276  
 36 Watt 1176 x 276

## AVERAGE LUMINANCE TABLE

| γ Gamma | C0  | C45 | C90 |
|---------|-----|-----|-----|
| 45      | 634 | 641 | 652 |
| 55      | 482 | 500 | 509 |
| 65      | 325 | 346 | 382 |
| 75      | 313 | 265 | 306 |
| 85      | 506 | 431 | 385 |

Luminance in cd/m<sup>2</sup>/1000lms

## UTILISATION FACTOR TABLE - CIBSE TM5 (fine grid method min/ave 0.8)

| LOR: 59.2%           |       |          |      | SHR Nom: 1.5 : 1.0 |      |      |      | SHr Max: 1.55 : 1.0 |      |      |      |
|----------------------|-------|----------|------|--------------------|------|------|------|---------------------|------|------|------|
| Reflectance          |       |          |      | Room Index (K)     |      |      |      |                     |      |      |      |
| Ceiling              | Walls | Floor    | 0.75 | 1.00               | 1.25 | 1.50 | 2.00 | 2.50                | 3.00 | 4.00 | 5.00 |
| 0.70                 | 0.50  | 0.20     | 0.39 | 0.44               | 0.48 | 0.51 | 0.54 | 0.57                | 0.58 | 0.61 | 0.62 |
| 0.70                 | 0.30  | 0.20     | 0.35 | 0.40               | 0.44 | 0.47 | 0.51 | 0.54                | 0.56 | 0.59 | 0.60 |
| 0.70                 | 0.10  | 0.20     | 0.32 | 0.37               | 0.41 | 0.44 | 0.49 | 0.52                | 0.54 | 0.57 | 0.59 |
| 0.50                 | 0.50  | 0.20     | 0.38 | 0.43               | 0.46 | 0.49 | 0.53 | 0.55                | 0.56 | 0.58 | 0.60 |
| 0.50                 | 0.30  | 0.20     | 0.35 | 0.39               | 0.43 | 0.46 | 0.50 | 0.52                | 0.54 | 0.57 | 0.58 |
| 0.50                 | 0.10  | 0.20     | 0.32 | 0.36               | 0.41 | 0.44 | 0.48 | 0.50                | 0.52 | 0.55 | 0.57 |
| 0.30                 | 0.50  | 0.20     | 0.37 | 0.42               | 0.45 | 0.48 | 0.51 | 0.53                | 0.54 | 0.56 | 0.57 |
| 0.30                 | 0.30  | 0.20     | 0.34 | 0.39               | 0.42 | 0.45 | 0.49 | 0.51                | 0.53 | 0.55 | 0.56 |
| 0.30                 | 0.10  | 0.20     | 0.32 | 0.36               | 0.40 | 0.43 | 0.47 | 0.49                | 0.51 | 0.54 | 0.55 |
| 0.00                 | 0.00  | 0.00     | 0.31 | 0.35               | 0.39 | 0.41 | 0.45 | 0.47                | 0.49 | 0.51 | 0.52 |
| Distribution Factors |       | Floor:   | 0.31 | 0.35               | 0.39 | 0.41 | 0.45 | 0.47                | 0.49 | 0.51 | 0.52 |
|                      |       | Walls:   | 0.29 | 0.24               | 0.21 | 0.18 | 0.14 | 0.12                | 0.10 | 0.08 | 0.07 |
|                      |       | Ceiling: | 0.00 | 0.00               | 0.00 | 0.00 | 0.00 | 0.00                | 0.00 | 0.00 | 0.00 |
| Bz Numbers           |       |          | 2    | 3                  | 3    | 3    | 3    | 3                   | 3    | 3    | 3    |

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"When your  
 business  
 depends  
 on light."