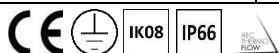


ALO

## ALO 1

## MAIN CHARACTERISTICS

|                                 |                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>             | Wide area lighting and sports facilities.                                                                                                                                                                                                                                                                                                                |
| <b>Optic</b>                    | AM10 / AN10 / AW10 / ASM / ASN / ASW / A25: Asymmetrical optic for projection.<br>Colour temperature: 4000K, CRI ≥ 70<br>3000K, CRI ≥ 70 optional<br>LED source efficiency: 171 lm/W @ 700mA, Tj=85°C, 4000K                                                                                                                                             |
| <b>Insulation class</b>         | I                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protection degree</b>        | IP66   IK08 total                                                                                                                                                                                                                                                                                                                                        |
| <b>Dimensions</b>               | See the drawing                                                                                                                                                                                                                                                                                                                                          |
| <b>Weight</b>                   | max 12.5 kg (excluded gear tray)                                                                                                                                                                                                                                                                                                                         |
| <b>Exposed surface</b>          | Side: 0.026 m <sup>2</sup> – Top: 0.15 m <sup>2</sup>   SCx: 0.13 m <sup>2</sup>                                                                                                                                                                                                                                                                         |
| <b>Mounting</b>                 | Installation with C bracket or MICROMOOVER.                                                                                                                                                                                                                                                                                                              |
| <b>Tilt Angle</b>               | C bracket: -90° ÷ +90° on horizontal plane with steps graduated in 5° controlled steps.<br>Micro-adjustment with slots ±2.5° (0.5° step) for intermediate values to the main adjustment.<br>MICROMOOVER: +20° ÷ +75° on horizontal plane.<br>Micro-adjustment 0/+10° for intermediate values to the main setting.<br>Adjustment on vertical axis: ±180°. |
| <b>Gear tray</b>                | Remote. (Power supply size 335x144mm H=60mm - Weight: 3,4 kg).<br>Optional: mounting over luminaire body with integrated flanges (only with C bracket version).                                                                                                                                                                                          |
| <b>Operating temp.</b>          | -40°C / +50°C                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage temperature</b>      | -40°C / +80°C                                                                                                                                                                                                                                                                                                                                            |
| <b>Main reference standards</b> | EN 60598-1, EN 60598-2-3, EN 60598-2-5, IEC 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3                                                                                                                                                                                                                                                        |



## ELECTRICAL CHARACTERISTICS

|                                               |                                                                                                                                                                      |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rated voltage</b>                          | 220÷480V 50/60Hz (Standard tolerance +/-10%, other voltages and tolerances upon request)                                                                             |
| <b>Power factor</b>                           | >0,9 (at full load)                                                                                                                                                  |
| <b>Flicker factor (FF)</b>                    | < 3%                                                                                                                                                                 |
| <b>Mains connection</b>                       | On terminal block for cables max. section 4mm <sup>2</sup>                                                                                                           |
| <b>Surge protection</b>                       | Up to 10kV                                                                                                                                                           |
| <b>Control system (options)</b>               | F: Fixed power not dimmable.<br>DAC: Automatic dimming (virtual midnight) with custom profile.<br>FLC: Constant light flux.<br>DALI: Digital dimming interface DALI. |
| <b>Optical unit lifetime (Tq=25°C, 600mA)</b> | >100.000hr L80B10                                                                                                                                                    |

## MATERIALS

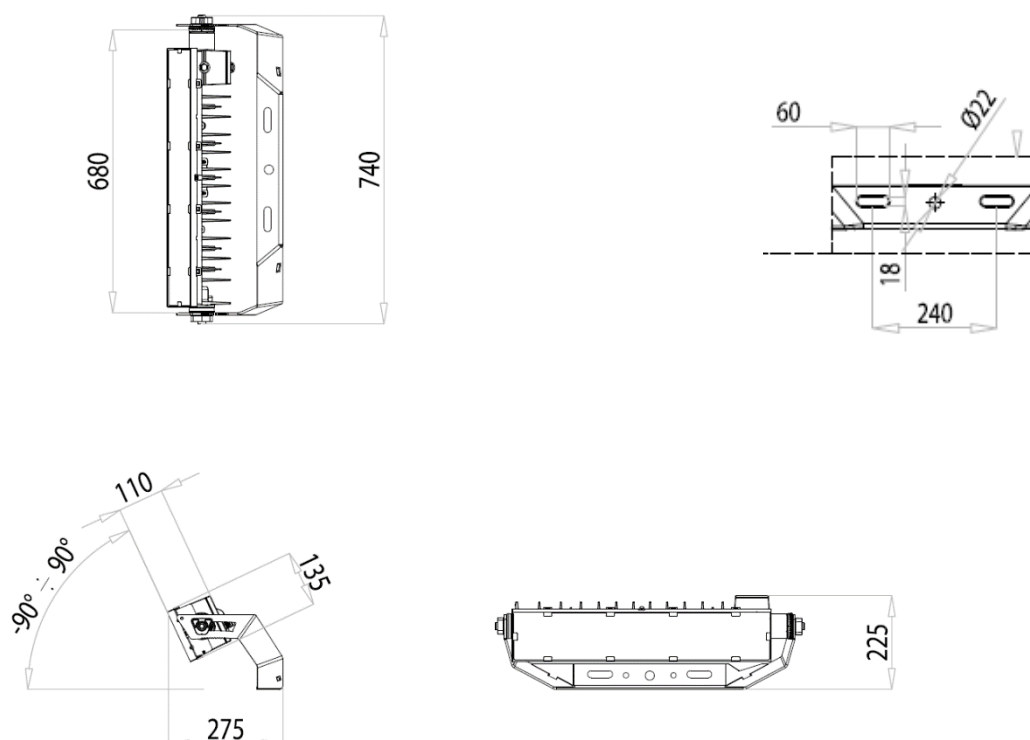
|                         |                                                            |
|-------------------------|------------------------------------------------------------|
| <b>Fixing</b>           | Galvanized steel powder painted.                           |
| <b>Body - Heat-sink</b> | Die-cast aluminum UNI EN1706 powder painted.               |
| <b>Screen frame</b>     | Galvanised and painted steel with stainless steel springs. |
| <b>Optic</b>            | Polycarbonate.                                             |
| <b>Screen</b>           | Flat tempered glass, 5mm thickness high transparency.      |
| <b>Cable gland</b>      | Metallic M20 x 1.5 - IP68                                  |
| <b>Gasket</b>           | Silicone                                                   |
| <b>Colour</b>           | Matt satin grey RAL 7004 - Cod. 7J                         |

## OPTIONAL

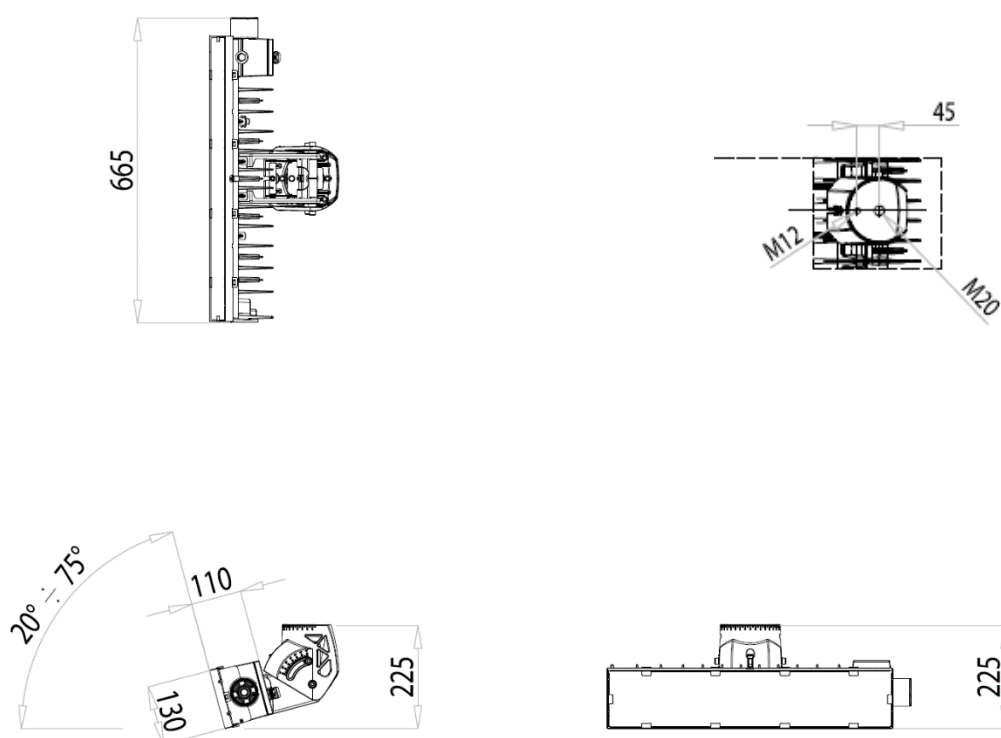
|                             |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>ES</b>                   | External Shield – upward emission shield.                                                 |
| <b>Power supply support</b> | Support for integrated power supply mounting on floodlight (only with C bracket version). |

## DIMENSIONAL DRAWINGS

## ALO with C bracket



## ALO with MICROMOVER



**ALO 1 2T12 WIDE AREA – 7040**

| LUMINAIRE                       | OPTIC | LED CURRENT<br>(mA) | RATED LUMINAIRE FLUX*<br>(Tq=25°C, 4000K, lm) | RATED LUMINAIRE POWER*<br>(Tq=25°C, Vin=230Vac, F, W) | LUMINAIRE EFFICACY<br>(Tq=25°C, lm/W) |
|---------------------------------|-------|---------------------|-----------------------------------------------|-------------------------------------------------------|---------------------------------------|
| ALO 1 2T12 A25 7040.350-22M     | A25   | 350                 | 41180                                         | 268                                                   | 153                                   |
| ALO 1 2T12 A25 7040.400-22M     | A25   | 400                 | 46100                                         | 307                                                   | 150                                   |
| ALO 1 2T12 A25 7040.450-22M     | A25   | 450                 | 50820                                         | 346                                                   | 146                                   |
| ALO 1 2T12 A25 7040.500-22M     | A25   | 500                 | 55330                                         | 387                                                   | 142                                   |
| ALO 1 2T12 A25 7040.550-22M     | A25   | 550                 | 59650                                         | 428                                                   | 139                                   |
| ALO 1 2T12 A25 7040.600-22M     | A25   | 600                 | 63780                                         | 471                                                   | 135                                   |
| ALO 1 2T12 A25 7040.350-22M ES  | A25   | 350                 | 39940                                         | 268                                                   | 149                                   |
| ALO 1 2T12 A25 7040.400-22M ES  | A25   | 400                 | 44720                                         | 307                                                   | 145                                   |
| ALO 1 2T12 A25 7040.450-22M ES  | A25   | 450                 | 49300                                         | 346                                                   | 142                                   |
| ALO 1 2T12 A25 7040.500-22M ES  | A25   | 500                 | 53670                                         | 387                                                   | 138                                   |
| ALO 1 2T12 A25 7040.550-22M ES  | A25   | 550                 | 57860                                         | 428                                                   | 135                                   |
| ALO 1 2T12 A25 7040.600-22M ES  | A25   | 600                 | 61870                                         | 471                                                   | 131                                   |
| ALO 1 2T12 AM10 7040.350-22M    | AM10  | 350                 | 40710                                         | 268                                                   | 151                                   |
| ALO 1 2T12 AM10 7040.400-22M    | AM10  | 400                 | 45580                                         | 307                                                   | 148                                   |
| ALO 1 2T12 AM10 7040.450-22M    | AM10  | 450                 | 50250                                         | 346                                                   | 145                                   |
| ALO 1 2T12 AM10 7040.500-22M    | AM10  | 500                 | 54710                                         | 387                                                   | 141                                   |
| ALO 1 2T12 AM10 7040.550-22M    | AM10  | 550                 | 58970                                         | 428                                                   | 137                                   |
| ALO 1 2T12 AM10 7040.600-22M    | AM10  | 600                 | 63050                                         | 471                                                   | 133                                   |
| ALO 1 2T12 AM10 7040.350-22M ES | AM10  | 350                 | 37050                                         | 268                                                   | 138                                   |
| ALO 1 2T12 AM10 7040.400-22M ES | AM10  | 400                 | 41480                                         | 307                                                   | 135                                   |
| ALO 1 2T12 AM10 7040.450-22M ES | AM10  | 450                 | 45730                                         | 346                                                   | 132                                   |
| ALO 1 2T12 AM10 7040.500-22M ES | AM10  | 500                 | 49790                                         | 387                                                   | 128                                   |
| ALO 1 2T12 AM10 7040.550-22M ES | AM10  | 550                 | 53660                                         | 428                                                   | 125                                   |
| ALO 1 2T12 AM10 7040.600-22M ES | AM10  | 600                 | 57380                                         | 471                                                   | 121                                   |

| LUMINAIRE                       | OPTIC | LED CURRENT<br>(mA) | RATED LUMINAIRE FLUX*<br>(Tq=25°C, 4000K, lm) | RATED LUMINAIRE POWER*<br>(Tq=25°C, Vin=230Vac, F, W) | LUMINAIRE EFFICACY<br>(Tq=25°C, lm/W) |
|---------------------------------|-------|---------------------|-----------------------------------------------|-------------------------------------------------------|---------------------------------------|
| ALO 1 2T12 AN10 7040.350-22M    | AN10  | 350                 | 41180                                         | 268                                                   | 153                                   |
| ALO 1 2T12 AN10 7040.400-22M    | AN10  | 400                 | 46100                                         | 307                                                   | 150                                   |
| ALO 1 2T12 AN10 7040.450-22M    | AN10  | 450                 | 50820                                         | 346                                                   | 146                                   |
| ALO 1 2T12 AN10 7040.500-22M    | AN10  | 500                 | 55330                                         | 387                                                   | 142                                   |
| ALO 1 2T12 AN10 7040.550-22M    | AN10  | 550                 | 59650                                         | 428                                                   | 139                                   |
| ALO 1 2T12 AN10 7040.600-22M    | AN10  | 600                 | 63780                                         | 471                                                   | 135                                   |
| ALO 1 2T12 AN10 7040.350-22M ES | AN10  | 350                 | 37890                                         | 268                                                   | 141                                   |
| ALO 1 2T12 AN10 7040.400-22M ES | AN10  | 400                 | 42410                                         | 307                                                   | 138                                   |
| ALO 1 2T12 AN10 7040.450-22M ES | AN10  | 450                 | 46750                                         | 346                                                   | 135                                   |
| ALO 1 2T12 AN10 7040.500-22M ES | AN10  | 500                 | 50900                                         | 387                                                   | 131                                   |
| ALO 1 2T12 AN10 7040.550-22M ES | AN10  | 550                 | 54880                                         | 428                                                   | 128                                   |
| ALO 1 2T12 AN10 7040.600-22M ES | AN10  | 600                 | 58680                                         | 471                                                   | 124                                   |
| ALO 1 2T12 ASM 7040.350-22M     | ASM   | 350                 | 41650                                         | 268                                                   | 155                                   |
| ALO 1 2T12 ASM 7040.400-22M     | ASM   | 400                 | 46630                                         | 307                                                   | 151                                   |
| ALO 1 2T12 ASM 7040.450-22M     | ASM   | 450                 | 51400                                         | 346                                                   | 148                                   |
| ALO 1 2T12 ASM 7040.500-22M     | ASM   | 500                 | 55960                                         | 387                                                   | 144                                   |
| ALO 1 2T12 ASM 7040.550-22M     | ASM   | 550                 | 60320                                         | 428                                                   | 140                                   |
| ALO 1 2T12 ASM 7040.600-22M     | ASM   | 600                 | 64500                                         | 471                                                   | 136                                   |
| ALO 1 2T12 ASM 7040.350-22M ES  | ASM   | 350                 | 39150                                         | 268                                                   | 146                                   |
| ALO 1 2T12 ASM 7040.400-22M ES  | ASM   | 400                 | 43830                                         | 307                                                   | 142                                   |
| ALO 1 2T12 ASM 7040.450-22M ES  | ASM   | 450                 | 48320                                         | 346                                                   | 139                                   |
| ALO 1 2T12 ASM 7040.500-22M ES  | ASM   | 500                 | 52600                                         | 387                                                   | 135                                   |
| ALO 1 2T12 ASM 7040.550-22M ES  | ASM   | 550                 | 56700                                         | 428                                                   | 132                                   |
| ALO 1 2T12 ASM 7040.600-22M ES  | ASM   | 600                 | 60630                                         | 471                                                   | 128                                   |
| ALO 1 2T12 ASN 7040.350-22M     | ASN   | 350                 | 41180                                         | 268                                                   | 153                                   |

| LUMINAIRE                      | OPTIC | LED CURRENT<br>(mA) | RATED LUMINAIRE FLUX*<br>(Tq=25°C, 4000K, lm) | RATED LUMINAIRE POWER*<br>(Tq=25°C, Vin=230Vac, F, W) | LUMINAIRE EFFICACY<br>(Tq=25°C, lm/W) |
|--------------------------------|-------|---------------------|-----------------------------------------------|-------------------------------------------------------|---------------------------------------|
| ALO 1 2T12 ASN 7040.400-22M    | ASN   | 400                 | 46100                                         | 307                                                   | 150                                   |
| ALO 1 2T12 ASN 7040.450-22M    | ASN   | 450                 | 50820                                         | 346                                                   | 146                                   |
| ALO 1 2T12 ASN 7040.500-22M    | ASN   | 500                 | 55330                                         | 387                                                   | 142                                   |
| ALO 1 2T12 ASN 7040.550-22M    | ASN   | 550                 | 59650                                         | 428                                                   | 139                                   |
| ALO 1 2T12 ASN 7040.600-22M    | ASN   | 600                 | 63780                                         | 471                                                   | 135                                   |
| ALO 1 2T12 ASN 7040.350-22M ES | ASN   | 350                 | 38710                                         | 268                                                   | 144                                   |
| ALO 1 2T12 ASN 7040.400-22M ES | ASN   | 400                 | 43330                                         | 307                                                   | 141                                   |
| ALO 1 2T12 ASN 7040.450-22M ES | ASN   | 450                 | 47770                                         | 346                                                   | 138                                   |
| ALO 1 2T12 ASN 7040.500-22M ES | ASN   | 500                 | 52010                                         | 387                                                   | 134                                   |
| ALO 1 2T12 ASN 7040.550-22M ES | ASN   | 550                 | 56070                                         | 428                                                   | 131                                   |
| ALO 1 2T12 ASN 7040.600-22M ES | ASN   | 600                 | 59950                                         | 471                                                   | 127                                   |
| ALO 1 2T12 ASW 7040.350-22M    | ASW   | 350                 | 41180                                         | 268                                                   | 153                                   |
| ALO 1 2T12 ASW 7040.400-22M    | ASW   | 400                 | 46100                                         | 307                                                   | 150                                   |
| ALO 1 2T12 ASW 7040.450-22M    | ASW   | 450                 | 50820                                         | 346                                                   | 146                                   |
| ALO 1 2T12 ASW 7040.500-22M    | ASW   | 500                 | 55330                                         | 387                                                   | 142                                   |
| ALO 1 2T12 ASW 7040.550-22M    | ASW   | 550                 | 59650                                         | 428                                                   | 139                                   |
| ALO 1 2T12 ASW 7040.600-22M    | ASW   | 600                 | 63780                                         | 471                                                   | 135                                   |
| ALO 1 2T12 ASW 7040.350-22M ES | ASW   | 350                 | 38710                                         | 268                                                   | 144                                   |
| ALO 1 2T12 ASW 7040.400-22M ES | ASW   | 400                 | 43330                                         | 307                                                   | 141                                   |
| ALO 1 2T12 ASW 7040.450-22M ES | ASW   | 450                 | 47770                                         | 346                                                   | 138                                   |
| ALO 1 2T12 ASW 7040.500-22M ES | ASW   | 500                 | 52010                                         | 387                                                   | 134                                   |
| ALO 1 2T12 ASW 7040.550-22M ES | ASW   | 550                 | 56070                                         | 428                                                   | 131                                   |
| ALO 1 2T12 ASW 7040.600-22M ES | ASW   | 600                 | 59950                                         | 471                                                   | 127                                   |
| ALO 1 2T12 AW10 7040.350-22M   | AW10  | 350                 | 41180                                         | 268                                                   | 153                                   |
| ALO 1 2T12 AW10 7040.400-22M   | AW10  | 400                 | 46100                                         | 307                                                   | 150                                   |

| LUMINAIRE                       | OPTIC | LED CURRENT<br>(mA) | RATED LUMINAIRE FLUX*<br>(Tq=25°C, 4000K, lm) | RATED LUMINAIRE POWER*<br>(Tq=25°C, Vin=230Vac, F, W) | LUMINAIRE EFFICACY<br>(Tq=25°C, lm/W) |
|---------------------------------|-------|---------------------|-----------------------------------------------|-------------------------------------------------------|---------------------------------------|
| ALO 1 2T12 AW10 7040.450-22M    | AW10  | 450                 | 50820                                         | 346                                                   | 146                                   |
| ALO 1 2T12 AW10 7040.500-22M    | AW10  | 500                 | 55330                                         | 387                                                   | 142                                   |
| ALO 1 2T12 AW10 7040.550-22M    | AW10  | 550                 | 59650                                         | 428                                                   | 139                                   |
| ALO 1 2T12 AW10 7040.600-22M    | AW10  | 600                 | 63780                                         | 471                                                   | 135                                   |
| ALO 1 2T12 AW10 7040.350-22M ES | AW10  | 350                 | 37470                                         | 268                                                   | 139                                   |
| ALO 1 2T12 AW10 7040.400-22M ES | AW10  | 400                 | 41950                                         | 307                                                   | 136                                   |
| ALO 1 2T12 AW10 7040.450-22M ES | AW10  | 450                 | 46250                                         | 346                                                   | 133                                   |
| ALO 1 2T12 AW10 7040.500-22M ES | AW10  | 500                 | 50350                                         | 387                                                   | 130                                   |
| ALO 1 2T12 AW10 7040.550-22M ES | AW10  | 550                 | 54280                                         | 428                                                   | 126                                   |
| ALO 1 2T12 AW10 7040.600-22M ES | AW10  | 600                 | 58040                                         | 471                                                   | 123                                   |

\*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory.  
 Values indicated in this technical sheet are to be considered rated values. Flux tolerance:  $\pm 7\%$ . Power tolerance:  $\pm 10\%$ .  
 The characteristics of the product listed above are subjected to change without notice.

**Performance data for other operating temperatures (OT) and other combinations of CRI and CCT available on request.**  
**There may be current limitations depending on the operating temperature. See dedicated section on following pages.**

## Temperature by Geographic Area

| Geographic Area | Country         | Hottest month Average Ta (°C) | Suggested OT (°C) | Geographic Area | Country            | Hottest month Average Ta (°C) | Suggested OT (°C) |
|-----------------|-----------------|-------------------------------|-------------------|-----------------|--------------------|-------------------------------|-------------------|
| America         | Argentina       | 28                            | 30                | EU              | Austria            | 26                            | 25                |
| America         | Brazil          | 28                            | 30                | EU              | Bosnia Herzegovina | 34                            | 35                |
| America         | Canada          | 25                            | 25                | EU              | Denmark            | 21                            | 20                |
| America         | Chile           | 30                            | 30                | EU              | Estonia            | 21                            | 20                |
| America         | Colombia        | 19                            | 20                | EU              | Finland            | 20                            | 20                |
| America         | Mexico          | 27                            | 30                | EU              | France (Lyon)      | 28                            | 30                |
| America         | Perù            | 27                            | 30                | EU              | France (Marseille) | 30                            | 30                |
| America         | USA (Arizona)   | 40                            | 40                | EU              | France (Parigi)    | 25                            | 25                |
| America         | USA (New York)  | 29                            | 30                | EU              | Germany            | 25                            | 25                |
| Asia/Oceania    | Australia       | 27                            | 30                | EU              | Greece             | 33                            | 35                |
| Asia/Oceania    | South Korea     | 30                            | 30                | EU              | Ireland            | 19                            | 20                |
| Asia/Oceania    | Philippines     | 34                            | 35                | EU              | Iceland            | 14                            | 15                |
| Asia/Oceania    | Hong Kong       | 32                            | 35                | EU              | Canary Islands     | 28                            | 30                |
| Asia/Oceania    | India           | 36                            | 35                | EU              | Italy              | 30                            | 30                |
| Asia/Oceania    | Malaysia        | 33                            | 35                | EU              | Liechtenstein      | 24                            | 25                |
| Asia/Oceania    | New Zealand     | 23                            | 25                | EU              | Lithuania          | 23                            | 25                |
| Asia/Oceania    | Pakistan        | 34                            | 35                | EU              | Luxembourg         | 24                            | 25                |
| Asia/Oceania    | Russia          | 24                            | 25                | EU              | Malta              | 32                            | 35                |
| Asia/Oceania    | Singapore       | 32                            | 35                | EU              | Norway             | 21                            | 20                |
| Asia/Oceania    | Taiwan          | 34                            | 35                | EU              | Netherlands        | 20                            | 20                |
| Asia/Oceania    | Vietnam         | 34                            | 35                | EU              | Poland             | 24                            | 25                |
| EMEA            | Saudi Arabia    | 43                            | 45                | EU              | Portugal           | 29                            | 30                |
| EMEA            | Bahrain         | 39                            | 40                | EU              | Czech Republic     | 25                            | 25                |
| EMEA            | Egypt           | 35                            | 35                | EU              | Romania            | 30                            | 30                |
| EMEA            | Jordan          | 32                            | 35                | EU              | Scotland           | 19                            | 20                |
| EMEA            | Israel          | 30                            | 30                | EU              | Slovenia           | 27                            | 30                |
| EMEA            | Kuwait          | 46                            | 50                | EU              | Spain (Madrid)     | 33                            | 35                |
| EMEA            | Libanon         | 30                            | 30                | EU              | Spain (Malaga)     | 31                            | 30                |
| EMEA            | Morocco         | 27                            | 30                | EU              | Spain (Barcelona)  | 32                            | 35                |
| EMEA            | Oman            | 38                            | 40                | EU              | Sweden (Goteborg)  | 21                            | 20                |
| EMEA            | Qatar           | 42                            | 45                | EU              | Sweden (Borlänge)  | 23                            | 25                |
| EMEA            | UAE (Abu Dhabi) | 40                            | 40                | EU              | Switzerland        | 25                            | 25                |
|                 |                 |                               |                   | EU              | Turkey (Ankara)    | 31                            | 30                |
|                 |                 |                               |                   | EU              | Ukraine (Kiev)     | 26                            | 25                |
|                 |                 |                               |                   | EU              | UK                 | 20                            | 20                |

**Maximum Current for Operating Temperature**

| WIDE AREA         |      |      |      |      |      |      |      |      |
|-------------------|------|------|------|------|------|------|------|------|
| Temperature (°C)  | OT15 | OT20 | OT25 | OT30 | OT35 | OT40 | OT45 | OT50 |
| Max. Current (mA) | 600  | 600  | 600  | 600  | 550  | 500  | 450  | 400  |