

## Weatherproof LED luminaire ZALUX BASE | High Efficiency

70,000 h product life

**5 YEARS**  
warranty

|                        |                           |
|------------------------|---------------------------|
| IP 66                  | IK 08                     |
| Frequency<br>0-50/60Hz | Rated voltage<br>220-240V |
| 850°C                  | NON-SELV                  |
| UV                     | +35°C<br>-25°C            |



BHE 1.2 40-840 ET BPC

### General characteristics

- The ZALUX BASE series is an energy-efficient LED luminaire with increased impact resistance for multiple industrial lighting applications with low mounting heights where damp and dust protection is needed
- LED Module Luminaire manufactured with high quality materials for a long life product
- Extruded polycarbonate profile, with UV filter, the upper part is in grey (RAL 7035), and the bottom part is in opal PC to ensures an optimal light distribution
- Endcap in polycarbonate (PC) in grey (RAL 7046), with UV protection manufactured by injection
- Fixing springs in stainless steel for its fixing to the ceiling or suspension with the triangle

### Applications recommendation

- Warehouses
- Corridors
- Parkings
- Aisles
- Utility rooms

### Approvals and markings



### Mounting accessories

- Stainless steel fixing brackets and suspension triangles included

### Mounting possibilities



### Accessories (optional)

- 10103049 Suspension wire 2m hook and fastener
- 10149442 Theft protection

### Product Options

- Endcaps and diffuser profile in different colors
- Dimmable driver
- Emergency battery
- Through wiring

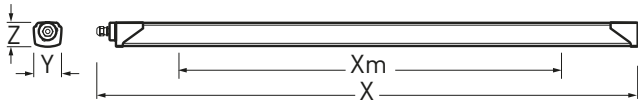
## Weatherproof LED luminaire ZALUX BASE | High Efficiency

### General technical data

|                                    |   |
|------------------------------------|---|
| Rated voltage range                | 220V-240V   |
| Rated frequency                    | 0-50Hz/60Hz   |
| Rated frequency in emergency modus | 50Hz/60Hz   |
| Protection class                   | Class I   |
| Protection rating                  | IP66  |
| Impact resistance                  | IK08  |
| UV protection                      | Diffuser and body with UV protection                            |
| Fire protection                    | Flammability (UL94): V2 / Glow wire test (EN 60695-2-11): 850°C |
| THD                                | < 10%   |
| Chemical agents resistance         | See appendix  |
| Color Rendering Index (CRI)        | > 80  |
| Type of control gear               | Electronic transformer, switchable                              |
| Connection method                  | Terminal block and cable gland                                  |

### Operating data | Dimensions

| Designation                 | Special features  | Luminous Flux | Efficiency | Connection load | Color Temperature | X    | Xm   | Y  | Z  |
|-----------------------------|-------------------|---------------|------------|-----------------|-------------------|------|------|----|----|
|                             |                   | lm            | lm/W       | W               | K                 | mm   | mm   | mm | mm |
| BHE 0.6 20-840 ET BPC       |                   | 2,000         | 125        | 16              | 4,000             | 637  | 350  | 76 | 67 |
| BHE 1.2 40-840 ET BPC       |                   | 4,000         | 135        | 29              | 4,000             | 1213 | 800  | 76 | 67 |
| BHE 1.2 40-840 ET BPC 3x1,5 | Through wiring    | 4,000         | 135        | 29              | 4,000             | 1261 | 800  | 76 | 67 |
| BHE 1.2 40-840 ET BPC EB1   | Emergency Battery | 4,000         | 135        | 29              | 4,000             | 1213 | 800  | 76 | 67 |
| BHE 1.2 40-840 ET BPC EB3   | Emergency Battery | 4,000         | 135        | 29              | 4,000             | 1213 | 800  | 76 | 67 |
| BHE 1.5 60-840 ET BPC       |                   | 6,000         | 135        | 44              | 4,000             | 1493 | 1100 | 76 | 67 |
| BHE 1.5 60-840 ET BPC 3x1,5 | Through wiring    | 6,000         | 135        | 44              | 4,000             | 1541 | 1100 | 76 | 67 |
| BHE 1.5 60-840 ET BPC EB1   | Emergency Battery | 6,000         | 135        | 44              | 4,000             | 1493 | 1100 | 76 | 67 |
| BHE 1.5 60-840 ET BPC EB3   | Emergency Battery | 6,000         | 135        | 44              | 4,000             | 1493 | 1100 | 76 | 67 |



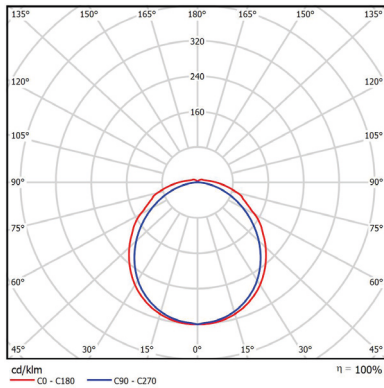
### Logistical data

| Designation                 | Order Number |                |          |     |                           |                                |
|-----------------------------|--------------|----------------|----------|-----|---------------------------|--------------------------------|
|                             |              | L x W x H mm   | Pcs./Box | Box | Groupage Pcs./Euro pallet | Double pallet Pcs./Euro pallet |
| BHE 0.6 20-840 ET BPC       | 10171106     | 790 x 85 x 75  | 1        | 1.1 | 342                       | 216+216                        |
| BHE 1.2 40-840 ET BPC       | 10171107     | 1330 x 85 x 75 | 1        | 1.9 | 171                       | 108+108                        |
| BHE 1.2 40-840 ET BPC 3x1,5 | 10171108     | 1330 x 85 x 75 | 1        | 1.9 | 171                       | 108+108                        |
| BHE 1.2 40-840 ET BPC EB1   | 10171109     | 1330 x 85 x 75 | 1        | 2.4 | 171                       | 108+108                        |
| BHE 1.2 40-840 ET BPC EB3   | 10171110     | 1330 x 85 x 75 | 1        | 2.9 | 171                       | 108+108                        |
| BHE 1.5 60-840 ET BPC       | 10171111     | 1610 x 85 x 75 | 1        | 2.3 | 171                       | 108+108                        |
| BHE 1.5 60-840 ET BPC 3x1,5 | 10171112     | 1610 x 85 x 75 | 1        | 2.3 | 171                       | 108+108                        |
| BHE 1.5 60-840 ET BPC EB1   | 10171113     | 1610 x 85 x 75 | 1        | 2.8 | 171                       | 108+108                        |
| BHE 1.5 60-840 ET BPC EB3   | 10171114     | 1610 x 85 x 75 | 1        | 3.3 | 171                       | 108+108                        |

Hint: For logistic estimations please contact our sales backoffice team

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### Light characteristic



BHE 1.5 60 BPC ET

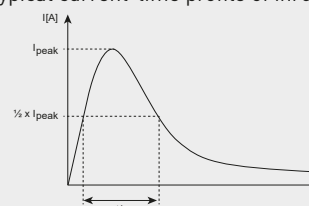
Other models similar distribution with different intensities

### Circuit breaker/inrush current

| Order Number | typ.<br>$I_{peak}/\Delta t$ | Number of ECGs on single-pole power circuit breakers (CB) |      |      |      |      |
|--------------|-----------------------------|---|------|------|------|------|
|              |                             | CB-Type   | 10 A | 16 A | 20 A | 25 A |
| 10171106     | 36 A / 150 $\mu$ s          | B   | 15   | 24   | 30   | 37   |
|              |                             | C   | 25   | 40   | 50   | 62   |
| 10171107     | 36 A / 150 $\mu$ s          | B   | 15   | 24   | 30   | 37   |
|              |                             | C   | 25   | 40   | 50   | 62   |
| 10171108     | 36 A / 150 $\mu$ s          | B   | 15   | 24   | 30   | 37   |
|              |                             | C   | 25   | 40   | 50   | 62   |
| 10171109     | 36 A / 150 $\mu$ s          | B   | 15   | 24   | 30   | 37   |
|              |                             | C   | 25   | 40   | 50   | 62   |
| 10171110     | 36 A / 150 $\mu$ s          | B   | 15   | 24   | 30   | 37   |
|              |                             | C   | 25   | 40   | 50   | 62   |
| 10171111     | 36 A / 150 $\mu$ s          | B   | 15   | 24   | 30   | 37   |
|              |                             | C   | 25   | 40   | 50   | 62   |
| 10171112     | 36 A / 150 $\mu$ s          | B   | 15   | 24   | 30   | 37   |
|              |                             | C   | 25   | 40   | 50   | 62   |
| 10171113     | 36 A / 150 $\mu$ s          | B   | 15   | 24   | 30   | 37   |
|              |                             | C   | 25   | 40   | 50   | 62   |
| 10171114     | 36 A / 150 $\mu$ s          | B   | 15   | 24   | 30   | 37   |
|              |                             | C   | 25   | 40   | 50   | 62   |

- Data for  $U_{supply} = 230$  VAC, mains impedance = 1  $\Omega$
- In case of multi-polar CB the maximum number is reduced by 20 %
- The max. number may differ depending on CB manufacturer. Please consider the specifications of the manufacturer.
- Basically, CB with C-characteristics are recommended to be used in lighting groups.

Typical current-time profile of inrush current



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### Product life

| T <sup>a</sup> Range | L Value | Lifetime |
|----------------------|---------|----------|
| 25°C                 | L80     | 70,000 h |

### Conformity to standards

#### Electrical equipment designed to be used with certain voltage limitations

|              |   |
|--------------|---|
| EN 60598-1   | Luminaires - Part 1: General requirements and tests                                 |
| EN 60598-2-1 | Luminaires - Part 2: Particular requirements. Section 1: General purpose luminaires |

#### Electromagnetic compatibility

|              |   |
|--------------|---|
| EN 55015     | Limits and methods of measurement of radio disturbance characteristics of electric lighting and similar equipment. Characteristics of electric lighting and similar equipment |
| EN 61000-3-2 | Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions  |
| EN 61000-3-3 | Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems   |
| EN 61547     | Equipment for general lighting purposes EMC immunity requirements   |
| EN 62471     | Photobiological safety of lamps and lamp system   |
| EN 62493     | Assessment of lighting equipment related to human exposure to electromagnetic fields  |

## APPENDIX

| Chemical Agents            | Polyester | Polycarbonate | Aluminium | PMMA | Stainless steel |
|----------------------------|-----------|---------------|-----------|------|-----------------|
| Acetic acid 10%            | ✓         | ✓             | ✓         | ✓    | ✓               |
| Acetone                    | ∅         | X             | ✓         | X    | ✓               |
| Alcoholic beverages        | ✓         | ✓             | ✓         | ∅    | ✓               |
| Aluminium sulphate         | ✓         | ✓             | ✓         | ✓    | ∅               |
| Ammonia 5%                 | ∅         | X             | ✓         | ✓    | ✓               |
| Aniline                    | ∅         | X             | ✓         | X    | ✓               |
| Arsenic acid 20%           | ∅         | ✓             | ✓         | ✓    | ✓               |
| Benzene                    | X         | X             | ✓         | X    | ∅               |
| Bencylic alcohol           | X         | X             | ∅         | X    | ∅               |
| Bromine                    | X         | X             | X         | X    | X               |
| Calcium Chloride           | ✓         | ✓             | ✓         | ✓    | ∅               |
| Calcium nitrate            | ✓         | ✓             | ✓         | ✓    | ∅               |
| Carbon tetrachloride       | X         | X             | ✓         | X    | ∅               |
| Carbonic acid              | ✓         | X             | ✓         | X    | ✓               |
| Caustic potash 5%          | X         | X             | X         | ✓    | ∅               |
| Cement                     | ✓         | ✓             | ✓         | ✓    | ∅               |
| Hydrochloric acid 1-5%     | ∅         | ✓             | X         | ✓    | X               |
| Chlorine liquids (vapours) | X         | X             | X         | X    | ∅               |
| Chloroform                 | X         | X             | ✓         | X    | ✓               |
| Chromic acid               | X         | ∅             | X         | ∅    | ∅               |
| Citric acid 20%            | ✓         | ✓             | ✓         | ✓    | ∅               |
| Copper sulphate            | ✓         | ✓             | X         | ✓    | ∅               |
| Diesel-naphta oil          | ✓         | ∅             | ✓         | ✓    | ✓               |
| Ethyl alcohol 30%          | ✓         | ✓             | ✓         | ∅    | ✓               |
| Ethyl chloride             | X         | X             | ∅         | X    | ✓               |
| Ethyl ether                | ✓         | X             | ✓         | X    | ∅               |
| Food oils and fats         | ✓         | X             | ✓         | ✓    | ✓               |
| Formic acid 10%            | ∅         | ✓             | X         | ✓    | ∅               |
| Glycerine                  | ✓         | ✓             | ✓         | ✓    | ✓               |
| Hexane                     | ∅         | ✓             | ✓         | ✓    | ✓               |
| Iodine                     | ✓         | X             | ∅         | ✓    | X               |
| Isopropylic alcohol        | ✓         | ∅             | ✓         | ∅    | ∅               |
| Lubricating oil            | ✓         | ✓             | ✓         | ✓    | ✓               |
| Magnesium sulphate         | ✓         | ✓             | ✓         | ✓    | ✓               |
| Methanol                   | ✓         | X             | ✓         | ∅    | ✓               |
| Mineral oils               | ✓         | ✓             | ✓         | ✓    | ✓               |
| Nitric acid 20%            | X         | ∅             | X         | ✓    | ✓               |
| Oxygen                     | ✓         | ✓             | ✓         | ✓    | ✓               |
| Ozone                      | ✓         | ✓             | ✓         | ✓    | ∅               |
| Perchloric acid 10%        | X         | ✓             | X         | ✓    | X               |
| Petrol                     | ✓         | X             | ✓         | ✓    | ✓               |
| Phenol                     | ∅         | X             | ✓         | X    | ∅               |
| Pothassium bromide         | ✓         | ✓             | ∅         | ✓    | ∅               |
| Pothassium nitrate         | ✓         | ✓             | ✓         | ✓    | ∅               |
| Pothassium permanganate    | ✓         | ✓             | ✓         | ✓    | ∅               |
| Sea climate                | ✓         | ✓             | ∅         | ✓    | ∅               |
| Silicon oils               | ✓         | ✓             | ✓         | ∅    | ✓               |
| Soda bleach 15%            | ✓         | X             | ∅         | ✓    | ∅               |
| Sodium chloride            | ✓         | ✓             | ∅         | ✓    | ∅               |
| Sodium hydroxide 5%        | ✓         | X             | X         | ✓    | ∅               |
| Sodium sulphate            | ✓         | ✓             | ✓         | ✓    | ∅               |
| Sugar                      | ✓         | ✓             | ✓         | ✓    | ✓               |
| Sulphur                    | ✓         | ✓             | ✓         | ✓    | ∅               |
| Sulphuric acid 30%         | X         | ✓             | X         | ✓    | X               |
| Toluene                    | X         | X             | ✓         | X    | ✓               |
| Trichloroethylene          | X         | X             | ✓         | X    | ∅               |
| Zinc sulphate              | ✓         | ✓             | ∅         | ✓    | ∅               |

✓ Resistant    ∅ Relatively resistant    X Non-resistant