



# Maxos LED

## 4MX850 581 LED55S/840 PSD DA20 SI

Maxos Led Industry, LED Module, system flux 5500 lm, 840 neutral white, Power supply unit with DALI interface, Double asymmetric optic 20°, Silver

Customers in the industrial and retail sectors are looking for general lighting solutions with a justifiable payback, while meeting all relevant norms for supermarkets and industry applications. For a limited investment, Maxos LED Industry offers best-in-class energy savings while delivering high lux levels at the required colour temperatures and glare factors. The minimalistic Maxos LED Industry system comprises exchangeable mid-power LED boards mounted on a standard Maxos trunking rail. A choice of wide and medium-beam lenses means flexibility in light distribution. Compared with a conventional fluorescent installation, this highly efficient LED solution offers full payback in less than three years. And the benefits keep coming: the use of our upgradable LED engine platform makes Maxos LED Industry a truly future-proof solution.

### Product data

| General Information      |  |  |
|--------------------------|--|--|
| Lamp family code         | LED55S [LED Module, system flux 5500 lm]   |  |
| Light source replaceable | No   |  |
| Number of gear units     | Unit   |  |
| Gear                     | -  |  |
| Driver included          | Yes  |  |
| Remarks                  | *- According to the Lighting Europe guidance paper 'Evaluating performance of LED based luminaires – January 2018': statistically there is no relevant difference in lumen maintenance between the B50 and, for example, the B10. Therefore, the median useful life (B50) value also represents the B10 value. |  |
| Product family code      | 4MX850 [Maxos Led Industry]  |  |
| Lighting Technology      | LED  |  |
| Value ladder             | Performance  |  |
| CE mark                  | Yes  |  |
| Warranty period          | 5 years  |  |
| Flammability mark        | -  |  |
| ENEC mark                | ENEC mark  |  |
| Glow-wire test           | Temperature 650 °C, duration 30 s  |  |

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|                   |     |
|-------------------|-----|
| EU RoHS compliant | Yes |
|-------------------|-----|

## Light Technical

|                                  |                                    |
|----------------------------------|------------------------------------|
| Luminous Flux                    | 5,500 lm                           |
| Correlated Colour Temperature    | 4000 K                             |
| Luminous efficacy (rated) (nom.) | 169 lm/W                           |
| Colour rendering index (CRI)     | ≥80                                |
| Number of light sources          | 1                                  |
| Beam angle of light source       | 120 degree(s)                      |
| Light source colour              | 840 neutral white                  |
| Optic type                       | Double asymmetric optic 20°        |
| Optical cover type               | Polymethyl methacrylate bowl/cover |
| Luminaire light beam spread      | 20°                                |
| Unified Glare Rating (CEN)       | Not applicable                     |

## Operating and Electrical

|  |                        |
|--|------------------------|
| Input Voltage                            | 220-240 V              |
| Line Frequency                           | 50 to 60 Hz            |
| Inrush current                           | 21 A                   |
| Inrush time                              | 0.280 ms               |
| Power Consumption                        | 32.5 W                 |
| Power Factor (Fraction)                  | 0.97                   |
| Connection                               | Connection unit 5-pole |
| Cable                                    | -                      |
| Number of products on MCB of 16 A type B | 24                     |

## Temperature

|                           |               |
|---------------------------|---------------|
| Ambient temperature range | -20 to +35 °C |
|---------------------------|---------------|

## Controls and Dimming

|                               |                                       |
|-------------------------------|---------------------------------------|
| Dimmable                      | Yes                                   |
| Driver/power unit/transformer | Power supply unit with DALI interface |
| Control interface             | DALI                                  |
| Constant light output         | No                                    |

## Mechanical and Housing

|                             |                         |
|-----------------------------|-------------------------|
| Housing material            | Steel                   |
| Reflector material          | -                       |
| Optic material              | Polymethyl methacrylate |
| Optical cover/lens material | Polymethyl methacrylate |
| Fixation material           | Steel                   |
| Housing Colour              | Silver                  |
| Optical cover/lens finish   | Clear                   |
| Overall length              | 1,528 mm                |

|                                     |                   |
|-------------------------------------|-------------------|
| Overall width                       | 63 mm             |
| Overall height                      | 50 mm             |
| Dimensions (height x width x depth) | 50 x 63 x 1528 mm |

## Approval and Application

|                              |  |
|------------------------------|--|
| Ingress protection code      | IP20 [Finger-protected]                        |
| Mech. impact protection code | IK02 [0.2 J standard]                          |
| Sustainability rating        | -  |
| Protection class IEC         | Safety class I                                 |
| Photobiological risk         | Photobiological risk group 0 @200mm to EN62778 |

## Initial Performance (IEC Compliant)

|                             |                        |
|-----------------------------|------------------------|
| Luminous flux tolerance     | +/-10%                 |
| Initial chromaticity        | (0.38, 0.38) SDCM <3.5 |
| Power consumption tolerance | +/-10%                 |

## Over Time Performance (IEC Compliant)

|   |      |
|---|------|
| Control gear failure rate at median useful life 50,000 h  | 5 %  |
| Control gear failure rate at median useful life 100,000 h | 10 % |
| Lumen maintenance at median useful life* 50,000 h         | L90  |
| Lumen maintenance at median useful life* 100,000 h        | L80  |

## Application Conditions

|                                    |                |
|------------------------------------|----------------|
| Performance ambient temperature Tq | 25 °C          |
| Maximum dim level                  | 1%             |
| Suitable for random switching      | Not applicable |

## Product Data

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| Order product name                | 4MX850 581 LED55S/840 PSD DA20 SI |
| Full product name                 | 4MX850 581 LED55S/840 PSD DA20 SI |
| Full EOC                          | 403073266268599                   |
| Order code                        | 66268599                          |
| Material no. (12 NC)              | 910629125526                      |
| SAP numerator – quantity per pack | 1                                 |
| EAN/UPC – Product/Case            | 4030732662685                     |
| Numerator – packs per outer box   | 3                                 |
| EAN/UPC – Case                    | 4030732259748                     |

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### Dimensional drawing

