

# PRODUCT DATASHEET

## ECO AREA SPD 90W 830 IP66 GY

ECO AREA HIGH POWER | For applications with luminous flux demand up to 20250 lm



### Areas of application

- Road lighting
- Streets
- Car parks
- Area lighting

### Product benefits

- Functional and minimalistic design
- Low maintenance and operation costs due to long lifetime of LED
- 5 years guarantee

### Product features

- Asymmetric light distribution for various application areas
- Robust die-cast aluminum housing
- Side-entry mounting for 48...60 mm poles
- Surge protection: 10 kV (L/N-PE)
- Integrated wide voltage driver, suitable for 100 - 240 V<sub>AC</sub>
- Pre-installed, flexible 0.5 m cable (H05RN-F), wrapped 3 x 1.0 mm<sup>2</sup> single wires



## TECHNICAL DATA

### Electrical data

|                                                             |               |
|-------------------------------------------------------------|---------------|
| Nominal wattage                                             | 90.00 W       |
| Nominal voltage                                             | 100...240 V   |
| Mains frequency                                             | 50...60 Hz    |
| Nominal current                                             | 450 mA        |
| Inrush current time $T_{h50}$                               | 1400 $\mu$ s  |
| Max. number of luminaires per miniature circuit breaker B16 | 4             |
| Max. number of luminaires per miniature circuit breaker C10 | 5             |
| Max. number of luminaires per miniature circuit breaker C16 | 8             |
| Power factor $\lambda$                                      | > 0.95        |
| Total harmonic distortion                                   | < 20 %        |
| Protection class                                            | I             |
| Operating mode                                              | Mains voltage |

### Photometrical data

|                                              |                           |
|----------------------------------------------|---------------------------|
| Luminous flux                                | 11250 lm                  |
| Luminous efficacy                            | 125 lm/W                  |
| Color temperature                            | 3000 K                    |
| Light color (designation)                    | Warm White                |
| Color rendering index Ra                     | > 80                      |
| Standard deviation of color matching         | $\leq 5$ sdc <sub>m</sub> |
| Photobiological safety group acc. to EN62778 | RG1                       |
| Photobiological safety group acc. to EN62471 | RG1                       |
| Beam angle                                   | 150 ° x 85 °              |

ECO AREA SPD 90W

### Dimensions & Weight

|        |           |
|--------|-----------|
| Length | 552.00 mm |
| Width  | 216.00 mm |
| Height | 91.00 mm  |

|                |           |
|----------------|-----------|
| Product weight | 3400.00 g |
| Cable length   | 500 mm    |



ECO AREA SPD 90W&120W

Materials & Colors

|                          |                    |
|--------------------------|--------------------|
| Product color            | Gray               |
| Housing color            | Gray               |
| RAL Color (most similar) | RAL 7015           |
| Body material            | Aluminum           |
| Cover material           | Polycarbonate (PC) |
| Mercury content          | 0.0 mg             |

Application & Mounting

|                                        |               |
|----------------------------------------|---------------|
| Ambient temperature range              | -30...+50 °C  |
| Temperature range at storage           | -35...+70 °C  |
| Type of connection                     | Cable, 3-pole |
| Type of protection                     | IP66          |
| Protection class IK (shock resistance) | IK08          |
| Dimmable                               | No            |
| Mounting type                          | Side entry    |
| Mounting location                      | Pole          |
| Application environment                | Outdoor       |
| With light source                      | Yes           |
| Replaceable light source               | No            |

Lifespan

|                           |                       |
|---------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C | 50000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C | 35000 h <sup>1)</sup> |

|                            |        |
|----------------------------|--------|
| Number of switching cycles | 100000 |
|----------------------------|--------|

1) t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

### Certificates & Standards

|                                                      |                 |
|------------------------------------------------------|-----------------|
| Standards                                            | CE / EAC / ENEC |
| Luminaire with limited surface temperature, "D sign" | No              |
| Replaceable light source (EPREL)                     | Not replaceable |

### DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                      |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|
|    | User instruction / safety instructions | ECO AREA SPD IP66 GY               |
|    | Addon technical information            | ECO AREA SPD IP66 GY               |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG |
|   | Legal information                      | ECO AREA SPD IP66 GY               |
|  | Declarations of conformity             | ECO AREA SPD                       |
| Photometric and lighting design files                                              |                                        | Document name                      |
|  | Light distribution curve type polar    | ECO AREA SPD 90W                   |

### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075557734 | Folding box<br>1             | 582 mm x 128 mm x 253 mm             | 3773.00 g    | 18.85 dm <sup>3</sup> |
| 4058075557741 | Shipping box<br>4            | 599 mm x 529 mm x 288 mm             | 16490.00 g   | 91.26 dm <sup>3</sup> |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

### References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

**DISCLAIMER**

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.