

# TECHNICAL DATA



**231500NW**

## ADJUSTABLE RECESSED LUMINAIRE 15W 4000K

Adjustable recessed luminaire. 15W power and 1350 lm luminous flux. The adjustable design allows 355° rotation and 45° tilt. Equipped with CREE COB LED chip and LIFUD driver. 45° symmetric beam angle and 4000K colour temperature. IP20 protection rating. Aluminium body with white finish.

**45°**



### PRODUCT SPECIFICATIONS

|              |                          |
|--------------|--------------------------|
| Item code:   | 231500NW                 |
| Description: | Ceiling recessed fixture |
| EAN13 code:  | 8436568444369            |

### ELECTRICAL DATA

|                              |            |
|------------------------------|------------|
| Power:                       | 15w        |
| Voltage:                     | 220-240vac |
| Frequency:                   | 50/60Hz    |
| Certifications:              | ENEC , TÜV |
| Power factor:                | 0,5        |
| Dimmable:                    | NOT        |
| Electrical insulation class: | CLASS II   |
| Connection:                  | L/N        |

### LUMINOUS DATA

|                                        |             |
|----------------------------------------|-------------|
| Color temperature:                     | 4000K       |
| Luminous efficiency:                   | 90 lm/w     |
| Lumens:                                | 1350lm      |
| LED chip brand:                        | Cree        |
| LED chip model:                        | COB 1507    |
| Beam angle:                            | 45°         |
| Luminous distribution:                 | Symmetrical |
| Color rendering index:                 | >80         |
| Standard deviation of colour matching: | <6          |
| Luminous flux maintenance:             | L90B10      |
| Flicker index:                         | ≤1,0        |
| SVM (Stroboscopic Visibility Measure): | ≤0,4        |

TECHNICAL DATA

|                        |                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------|
| Protection rating:     | IP20 (Protected against solid objects larger than 12mm and no protection against liquids) |
| Operating temperature: | -20°~50°                                                                                  |
| Mounting type:         | Recessed                                                                                  |
| Luminaire rotation:    | 355°                                                                                      |
| Luminaire tilt:        | 45°                                                                                       |

AVERAGE LIFESPAN

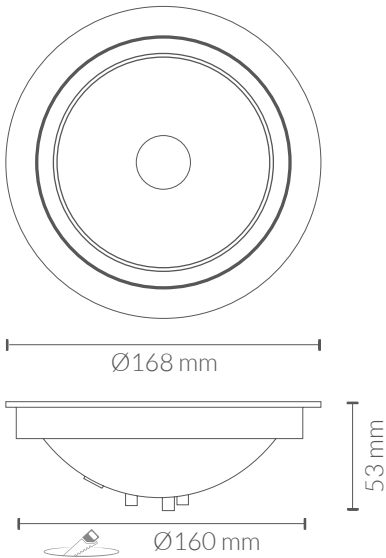
|                   |              |
|-------------------|--------------|
| Working hours:    | 30000 hrs    |
| Switching cycles: | 25000 ON/OFF |

PHYSICAL DATA

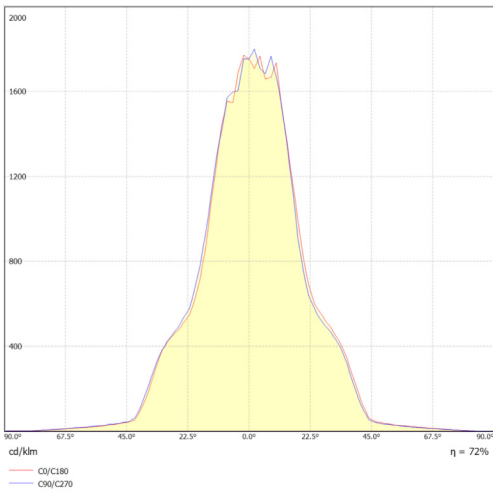
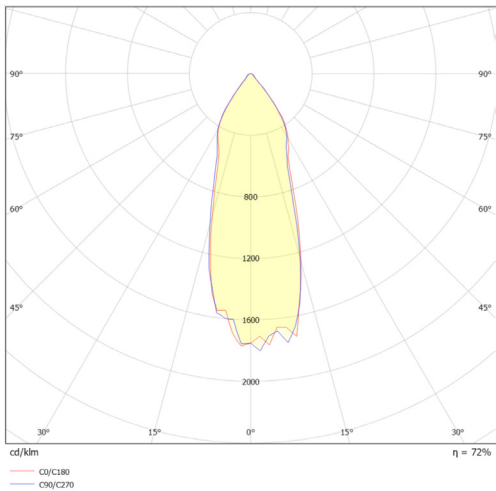
|           |           |
|-----------|-----------|
| Material: | Aluminium |
| Finish:   | White     |

|                                      |   |
|--------------------------------------|---|
| ENERGY EFFICIENCY 2023(UE-2019/2015) | E |
|--------------------------------------|---|

DIMENSIONS



LUMINOUS INTENSITY DISTRIBUTION CURVE



**EMC directive 2014/30/EU ELECTROMAGNETIC COMPATIBILIT**

- EN IEC 55015** Limits and methods of measurement of radio-frequency disturbance characteristics of lighting equipment and similar apparatus.
- EN 61547** Lighting equipment for general use. EMC immunity requirements.
- EN IEC 61000-3-2** Electromagnetic compatibility (EMC). Part 3-2: Limits. Limits for harmonic current emissions (equipment with input current  $\leq 16$  A per phase).
- EN 61000-3-3** Electromagnetic compatibility (EMC). Part 3-3: Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection.

**LVD directive 2014/35/EU LOW VOLTAGE**

- EN IEC 60598-1** Luminaires - Part 1: General requirements and tests.
- EN 60598-2-2** Luminaires – Part 2-2: Particular requirements – Recessed luminaires.
- EN IEC 62031** LED modules for general lighting. Safety requirements.

**RoHS Directive 2011/65/EU and Delegated Directive (EU) 2015/863**

Determination of Certain Substances in Electrotechnical Products.

**EN IEC 63000**

