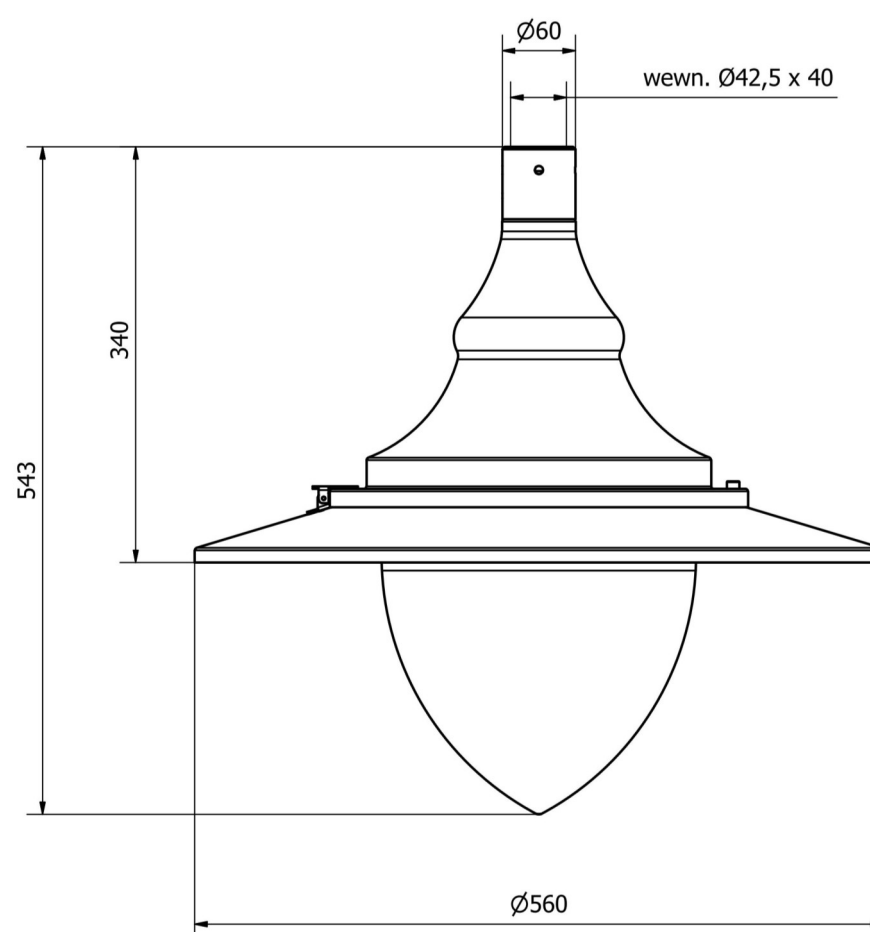
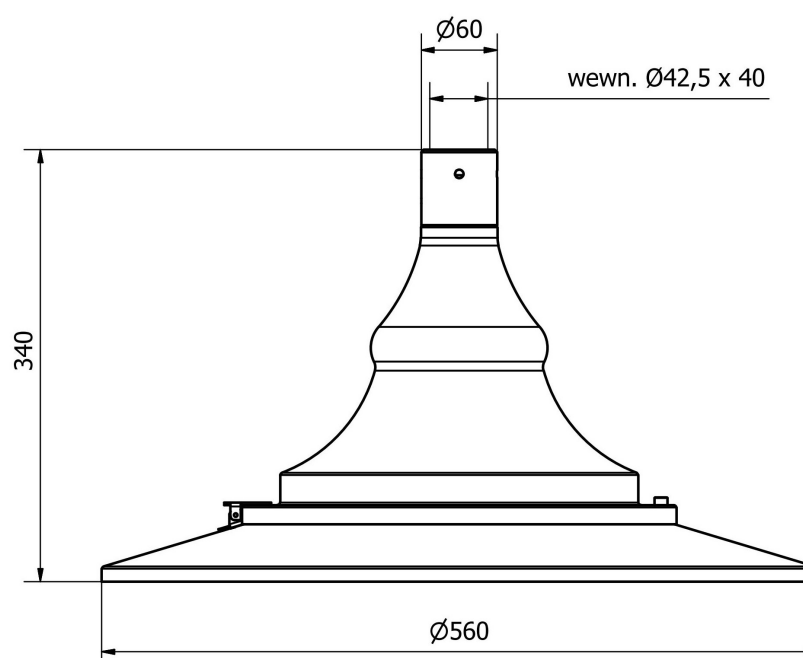




OW LED with transparent light diffuser



OW LED



## Characteristic

|                            |                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Ingress protection         | IP 66                                                                                                                                          |
| Protection class           | II                                                                                                                                             |
| Nominal input voltage      | 220 - 240 V AC                                                                                                                                 |
| Frequency                  | 50/60 Hz                                                                                                                                       |
| Power factor               | ≥0.95                                                                                                                                          |
| Inrush electric current    | 53A / 200µs (for OW LED 48, 60W),<br>57A / 210µs (for OW LED 72W)                                                                              |
| Level of surge protection  | 10kV                                                                                                                                           |
| Control system ready input | DALI                                                                                                                                           |
| Operating temperatures     | -40°C to +55°C                                                                                                                                 |
| Material                   | cap and casing – shaped anodized aluminium sheet                                                                                               |
| Colour                     | black                                                                                                                                          |
| Mounting                   | on columns, extension arms, aluminium and steel wall brackets<br>with spigot ending Ø42 mm, length 40 mm<br>recommended mounting height: 5-7 m |
| Optical system             | PMMA lens, replaceable LED module                                                                                                              |
| LEDs lifetime L90F10       | >50 000h                                                                                                                                       |
| Warranty                   | 5 years                                                                                                                                        |



**CREE** LEDs



### Technical parameters

| Type                                       | OW LED 48<br>with transparent light diffuser |                             | OW LED 60<br>with transparent light diffuser |                             | OW LED 72<br>with transparent light diffuser |                             | OW LED 48                   |                             | OW LED 60                   |                             | OW LED 72                   |                             |
|--------------------------------------------|----------------------------------------------|-----------------------------|----------------------------------------------|-----------------------------|----------------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Code                                       | 2109133/6/... <sup>3)</sup>                  | 2109133/3/... <sup>3)</sup> | 2109134/6/... <sup>3)</sup>                  | 2109134/3/... <sup>3)</sup> | 2109135/6/... <sup>3)</sup>                  | 2109135/3/... <sup>3)</sup> | 2109033/6/... <sup>3)</sup> | 2109033/3/... <sup>3)</sup> | 2109034/6/... <sup>3)</sup> | 2109034/3/... <sup>3)</sup> | 2109035/6/... <sup>3)</sup> | 2109035/3/... <sup>3)</sup> |
| Correlated colour temperature [K]          | 5 000                                        | 3 500                       | 5 000                                        | 3 500                       | 5 000                                        | 3 500                       | 5 000                       | 3 500                       | 5 000                       | 3 500                       | 5 000                       | 3 500                       |
| Color rendering index CRI                  | 75 <sup>3)</sup>                             | >80                         | 75 <sup>3)</sup>                             | >80                         | 75 <sup>3)</sup>                             | >80                         | 75 <sup>3)</sup>            | >80                         | 75 <sup>3)</sup>            | >80                         | 75 <sup>3)</sup>            | >80                         |
| Corrective factor S/P                      | 1,8                                          | 1,45                        | 1,8                                          | 1,45                        | 1,8                                          | 1,45                        | 1,8                         | 1,45                        | 1,8                         | 1,45                        | 1,8                         | 1,45                        |
| LEDs type                                  | CREE XT-E                                    |                             | CREE XP-L                                    |                             | CREE XP-L                                    |                             | CREE XT-E                   |                             | CREE XP-L                   |                             | CREE XP-L                   |                             |
| LEDs quantity                              | 24                                           |                             |                                              |                             |                                              |                             |                             |                             |                             |                             |                             |                             |
| Supply current [mA]                        | 650                                          |                             | 830                                          |                             | 1 000                                        |                             | 650                         |                             | 830                         |                             | 1 000                       |                             |
| LEDs power [W]                             | 48                                           |                             | 60                                           |                             | 72                                           |                             | 48                          |                             | 60                          |                             | 72                          |                             |
| LEDs luminous flux <sup>1)</sup> [lm]      | 5 900                                        | 5 050                       | 8 650                                        | 8 050                       | 10 450                                       | 9 600                       | 5 900                       | 5 050                       | 8 650                       | 8 050                       | 10 450                      | 9 600                       |
| Power consumption [W]                      | 55                                           |                             | 68                                           |                             | 80                                           |                             | 55                          |                             | 68                          |                             | 80                          |                             |
| Luminaire luminous flux <sup>1)</sup> [lm] | 5 300                                        | 4 500                       | 7 800                                        | 7 200                       | 9 400                                        | 8 600                       | 5 450                       | 4 700                       | 8 050                       | 7 450                       | 9 700                       | 8 900                       |
| Luminaire efficacy [lm/W]                  | 96                                           | 82                          | 115                                          | 106                         | 118                                          | 108                         | 99                          | 85                          | 118                         | 110                         | 121                         | 111                         |
| Weight [kg]                                | 7                                            |                             |                                              |                             |                                              |                             | 6,3                         |                             |                             |                             |                             |                             |
| Volume [m³]                                | 0,16                                         |                             |                                              |                             |                                              |                             | 0,1                         |                             |                             |                             |                             |                             |
| Windage [m²]                               | 0,1                                          |                             |                                              |                             |                                              |                             | 0,06                        |                             |                             |                             |                             |                             |

- 1) tolerance +/- 3% due to LEDs accuracy
  - 2) code of chosen optics configuration - example: 2109033/6/T2 is a OW LED 48 with optical system T2
  - 3) tolerance +/-2
- Low voltage directive LVD 2006/95/WE, norm PN-EN 60598-1, PN-EN 60598-2-3
  - Directive EMC 2004/108/WE, norms: PN-EN 55015, PN-EN 61547, PN-EN 61000-3-2, PN-EN 61000-3-3
  - Shown parameters based on measurements according to IESNA LM 79-08

### Accetable quantity of luminaires OW LED on one circuit, protected by:

| Overcurrent switches MCB type B or C |        |    |    |    |     |     |     |     | Fuse – type gG and GL |    |    |    |     |     |     |     |
|--------------------------------------|--------|----|----|----|-----|-----|-----|-----|-----------------------|----|----|----|-----|-----|-----|-----|
|                                      |        | 2A | 4A | 6A | 10A | 16A | 20A | 25A |                       | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
| OW LED<br>48, 60, 72W                | Type B | 1  | 2  | 4  | 7   | 12  | 15  | 18  | OW LED 48, 60W        | 4  | 8  | 12 | 19  | 31  | 39  | 49  |
|                                      | Type C | 1  | 4  | 7  | 12  | 20  | 24  | 31  | OW LED 72W            | 2  | 6  | 9  | 17  | 27  | 34  | 43  |

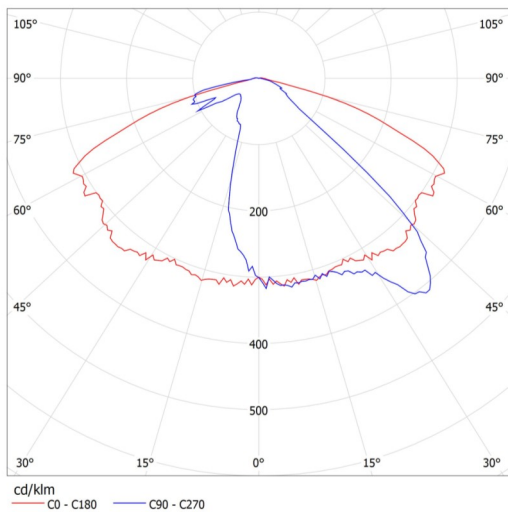
### Luminaire OW LED in standard has following functions of intelligent power supply:

- Connection to outside control system by DALI interface (operation of analog signal 1-10V as an option),
- Possibility of programming multistage dimming of luminaire, up to 5 intervals in the range of from 10 to 100% of nominal power,
- Temperature protection of LED module (from overheating) in case of unintentional luminaire operation during the,
- Regulation of power / luminous flux – the option of setting another value than the catalogue in the range of 30-100% of nominal one,

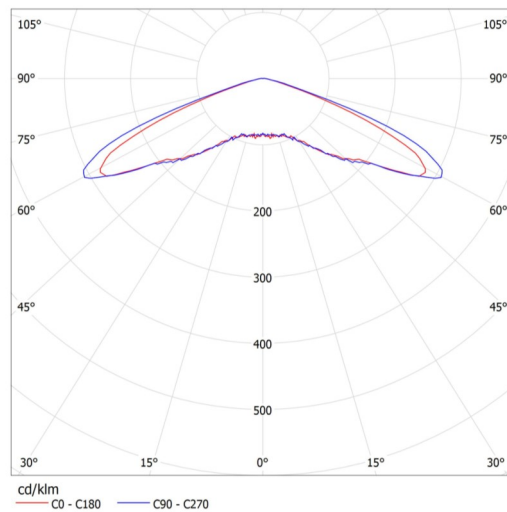


### Optics configurations for OW LED with transparent light diffuser

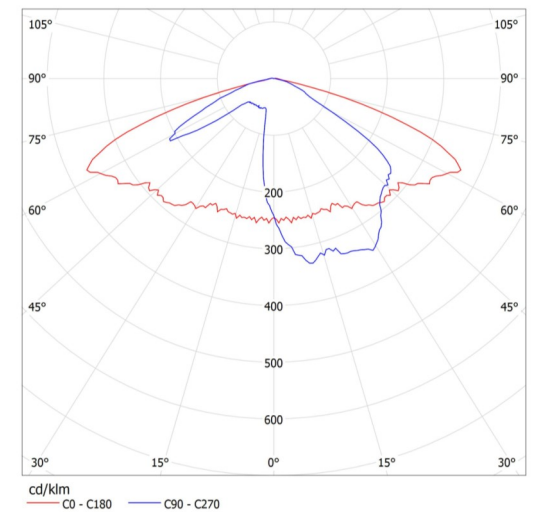
ME



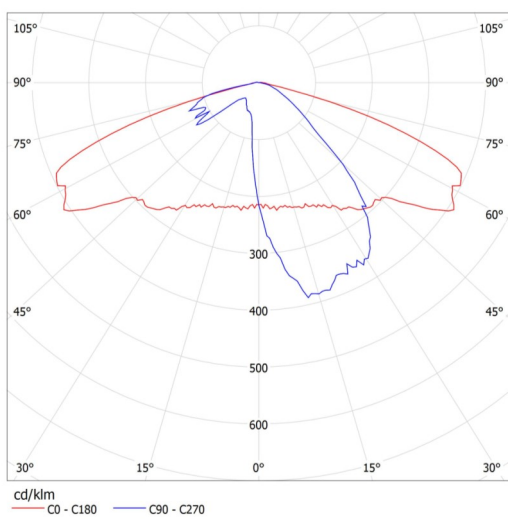
VS



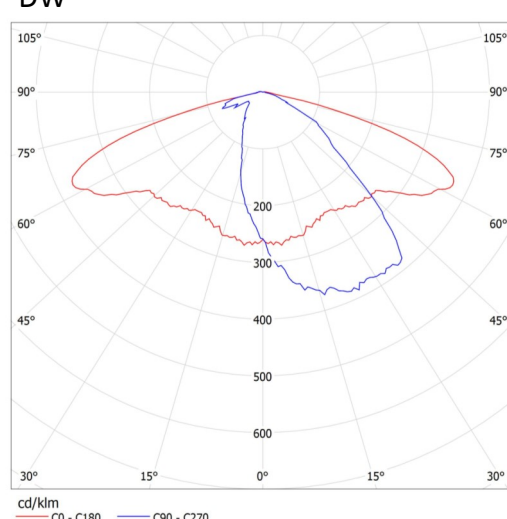
T3



T2

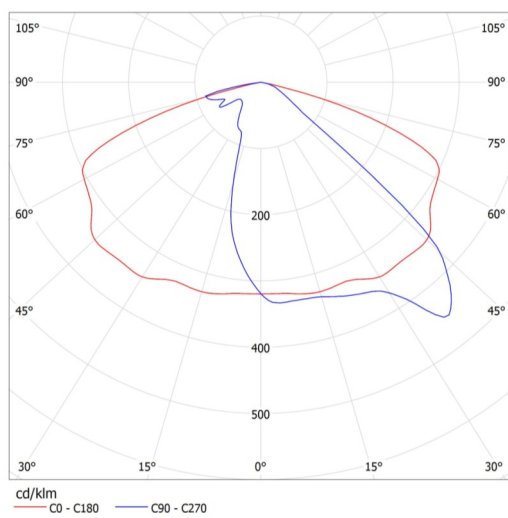


DW

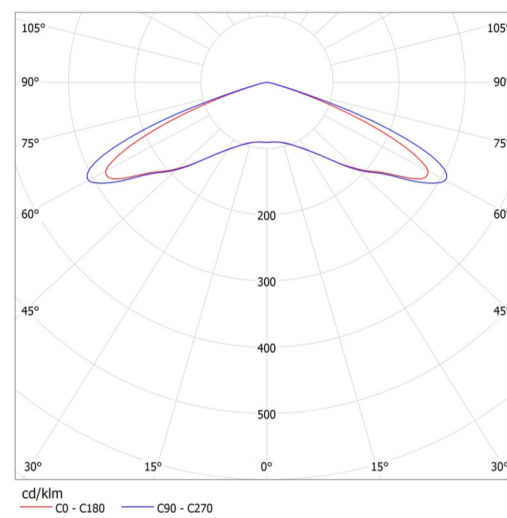


### Optics configurations for OW LED

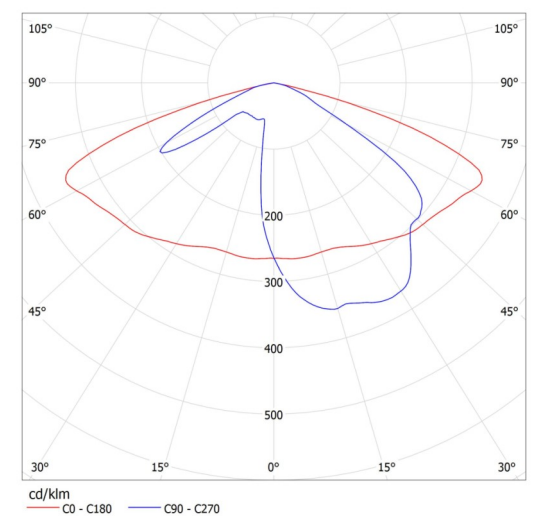
ME



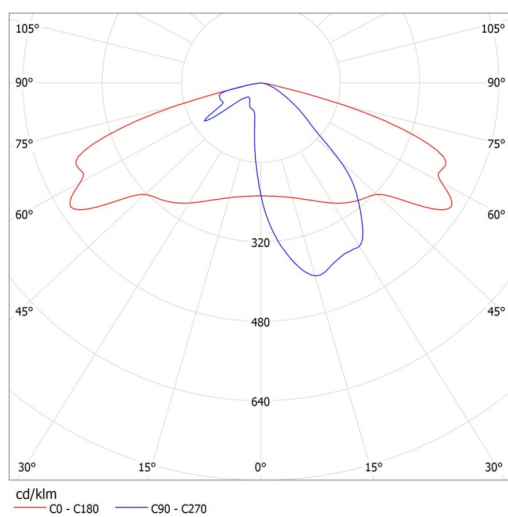
VS



T3



T2



DW

