



# Creating attractive inner-city landscapes

## OptiSpace

OptiSpace is a creative bollard solution which enables you to build a more attractive, citizen-centric inner-city space by avoiding verticalization of the urban landscape. OptiSpace delivers all this and more while delivering an attractive TCO for your investment. Enabled by the different control options you can reduce energy consumption and minimize TCO further and thanks to the excellent and optimized light distribution options you can maximize spacing between the bollards, thereby minimizing the number of light points needed to be installed. To support different design schemes, OptiSpace is also available in different colors: Ultra Dark Grey is the standard color and other colors are available on request.

### Benefits

- Discreet design nicely blending into modern inner-city spaces
- Attractive Total Cost of Ownership
- Compliant with key national and international regulation in Europe

### Features

- Enabling wide spacing, up to 20 meters
- Delivering up to 4300 lm light output
- IP66 and IK10 ratings
- Warm White (WW) / Neutral White (NW ) color temperature options
- Choice of both asymmetric and symmetric optics
- Ground section accessory

### Application

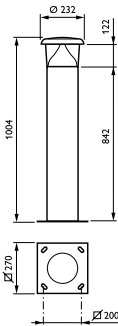
- Parks and plazas
- Pedestrian and cycle paths
- Building fronts and car parks

Versions

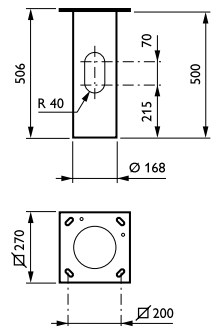


OptiSpace-BCB500

Dimensional drawing



Dimensional drawing



Product details

OptiSpace-BCB500 -5DPP.TIF



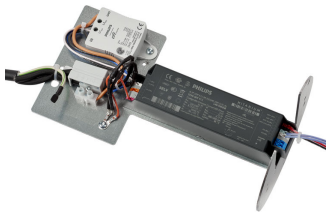
OptiSpace-BCB500 -1DPP.TIF



Product details



OptiSpace-BCB500 -9DPP.TIF



OptiSpace-BCB500 -7DPP.TIF



OptiSpace-BCB500 -2DPP.TIF



OptiSpace-BCB500 -3DPP.TIF



OptiSpace-BCB500 -4DPP.TIF



OptiSpace-BCB500 -8DPP.TIF



OptiSpace-BCB500 -6DPP.TIF



OptiSpace-BCB500 -10DPP.TIF

| General Information                    |                                                                          |
|----------------------------------------|--------------------------------------------------------------------------|
| Driver included                        | Yes                                                                      |
| Light source replaceable               | Yes                                                                      |
| Number of gear units                   | 1 unit                                                                   |
| Service tag                            | Yes                                                                      |
| Light Technical                        |                                                                          |
| Upward light output ratio              | 0                                                                        |
| Operating and Electrical               |                                                                          |
| Surge Protection (Common/Differential) | Surge protection level until 6 kV differential mode and 6 kV common mode |
| Controls and Dimming                   |                                                                          |
| Dimmable                               | No                                                                       |
| Mechanical and Housing                 |                                                                          |
| Housing Color                          | Black                                                                    |
| Mech. impact protection code           | IK10                                                                     |
| Ingress protection code                | IP66                                                                     |
| Standard tilt angle side entry         | 0°                                                                       |
| Approval and Application               |                                                                          |
| CE mark                                | Yes                                                                      |
| Flammability mark                      | For mounting on normally flammable surfaces                              |
| Product Data                           |                                                                          |
| Product family code                    | BCB500                                                                   |

General Information

| Order Code   | Full Product Name                        | Lamp family code |
|--------------|------------------------------------------|------------------|
| 912300024101 | BCB500 LED56-4S/740 S DGR                | LED56            |
| 912300024102 | BCB500 LED56-4S/740 ANB14 II S DGR       | LED56            |
| 912300024103 | BCB500 LED27-4S/740 ANB14 II A DGR       | LED27            |
| 912300060278 | BCB500 LED16-4S/740 PSU II A DGR MSP CLO | LED16            |
| 912300060279 | BCB500 LED16-4S/830 PSU II A DGR MSP CLO | LED16            |
| 912300060280 | BCB500 LED16-4S/740 PSU II S DGR MSP CLO | LED16            |
| 912300060281 | BCB500 LED16-4S/830 PSU II S DGR MSP CLO | LED16            |
| 912300060282 | BCB500 LED10-4S/740 PSU II A DGR MSP CLO | LED10            |
| 912300060283 | BCB500 LED10-4S/830 PSU II A DGR MSP CLO | LED10            |

Light Technical (1/2)

| Order Code   | Full Product Name                  | Luminaire light beam spread | Light source color | Correlated Color Temperature (Nom) | Color rendering index (CRI) |
|--------------|------------------------------------|-----------------------------|--------------------|------------------------------------|-----------------------------|
| 912300024101 | BCB500 LED56-4S/740 S DGR          | 177°                        | 740 neutral white  | 4000 K                             | 70                          |
| 912300024102 | BCB500 LED56-4S/740 ANB14 II S DGR | 177°                        | 740 neutral white  | 4000 K                             | 70                          |
| 912300024103 | BCB500 LED27-4S/740 ANB14 II A DGR | 7° - 9° x 177°              | 740 neutral white  | 4000 K                             | 70                          |
| 912300060278 | BCB500 LED16-4S/740                | 21° - 26° x 200°            | 740 neutral white  | 4000 K                             | 70                          |

| Order Code   | Full Product Name                        | Luminaire light beam spread | Light source color | Correlated Color Temperature (Nom) | Color rendering index (CRI) |
|--------------|------------------------------------------|-----------------------------|--------------------|------------------------------------|-----------------------------|
|              | PSU II A DGR MSP CLO                     |                             |                    |                                    |                             |
| 912300060279 | BCB500 LED16-4S/830 PSU II A DGR MSP CLO | 21° - 26° x 200°            | 830 warm white     | 3000 K                             | 80                          |
| 912300060280 | BCB500 LED16-4S/740 PSU II S DGR MSP CLO | 177°                        | 740 neutral white  | 4000 K                             | 70                          |

| Order Code   | Full Product Name | Luminaire         | Light        | Correlated              | Color                 |
|--------------|-------------------|-------------------|--------------|-------------------------|-----------------------|
|              |                   | light beam spread | source color | Color Temperature (Nom) | rendering index (CRI) |
| 912300060281 | BCB500            | 177°              | 830          | 3000 K                  | 80                    |
|              | LED16-4S/830      |                   | warm         |                         |                       |
|              | PSU II S DGR      |                   | white        |                         |                       |
|              | MSP CLO           |                   |              |                         |                       |
| 912300060282 | BCB500            | 21° - 26° x       | 740          | 4000 K                  | 70                    |
|              | LED10-4S/740      | 200°              | neutral      |                         |                       |
|              | PSU II A DGR      |                   | white        |                         |                       |
|              | MSP CLO           |                   |              |                         |                       |

Light Technical (2/2)

| Order Code   | Full Product Name                        | Luminous Flux | Optic type   |
|--------------|------------------------------------------|---------------|--------------|
|              |                                          |               | outdoor      |
| 912300024101 | BCB500 LED56-4S/740 S DGR                | 4,900 lm      | Symmetrical  |
| 912300024102 | BCB500 LED56-4S/740 ANB14 II S DGR       | 4,900 lm      | Symmetrical  |
| 912300024103 | BCB500 LED27-4S/740 ANB14 II A DGR       | 2,400 lm      | Asymmetrical |
| 912300060278 | BCB500 LED16-4S/740 PSU II A DGR MSP CLO | 1,450 lm      | Asymmetrical |
| 912300060279 | BCB500 LED16-4S/830 PSU II A DGR MSP CLO | 1,420 lm      | Asymmetrical |

Operating and Electrical

| Order Code   | Full Product Name                        | Power Consumption |
|--------------|------------------------------------------|-------------------|
| 912300024101 | BCB500 LED56-4S/740 S DGR                | 37.2 W            |
| 912300024102 | BCB500 LED56-4S/740 ANB14 II S DGR       | 37.2 W            |
| 912300024103 | BCB500 LED27-4S/740 ANB14 II A DGR       | 20 W              |
| 912300060278 | BCB500 LED16-4S/740 PSU II A DGR MSP CLO | 12.3 W            |
| 912300060279 | BCB500 LED16-4S/830 PSU II A DGR MSP CLO | 14.7 W            |

Mechanical and Housing

| Order Code   | Full Product Name                        | Optical cover type                                  | Standard           |
|--------------|------------------------------------------|-----------------------------------------------------|--------------------|
|              |                                          |                                                     | tilt angle posttop |
| 912300024101 | BCB500 LED56-4S/740 S DGR                | Polycarbonate cover and gloss high-reflective optic | 0°                 |
| 912300024102 | BCB500 LED56-4S/740 ANB14 II S DGR       | Polycarbonate cover and gloss high-reflective optic | 0°                 |
| 912300024103 | BCB500 LED27-4S/740 ANB14 II A DGR       | Polycarbonate cover and gloss high-reflective optic | 0°                 |
| 912300060278 | BCB500 LED16-4S/740 PSU II A DGR MSP CLO | Polycarbonate bowl/cover clear                      | -                  |
| 912300060279 | BCB500 LED16-4S/830 PSU II A DGR MSP CLO | Polycarbonate bowl/cover clear                      | -                  |

Over Time Performance (IEC Compliant)

| Order Code   | Full Product Name | Luminaire         | Light        | Correlated              | Color                 |
|--------------|-------------------|-------------------|--------------|-------------------------|-----------------------|
|              |                   | light beam spread | source color | Color Temperature (Nom) | rendering index (CRI) |
| 912300060283 | BCB500            | 21° - 26° x       | 830          | 3000 K                  | 80                    |
|              | LED10-4S/830      | 200°              | warm         |                         |                       |
|              | PSU II A DGR      |                   | white        |                         |                       |
|              | MSP CLO           |                   |              |                         |                       |

| Order Code   | Full Product Name                        | Luminous Flux | Optic type   |
|--------------|------------------------------------------|---------------|--------------|
|              |                                          |               | outdoor      |
| 912300060280 | BCB500 LED16-4S/740 PSU II S DGR MSP CLO | 1,432 lm      | Symmetrical  |
| 912300060281 | BCB500 LED16-4S/830 PSU II S DGR MSP CLO | 1,390 lm      | Symmetrical  |
| 912300060282 | BCB500 LED10-4S/740 PSU II A DGR MSP CLO | 906 lm        | Asymmetrical |
| 912300060283 | BCB500 LED10-4S/830 PSU II A DGR MSP CLO | 887 lm        | Asymmetrical |

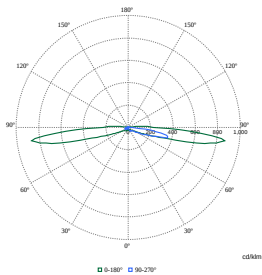
| Order Code   | Full Product Name                        | Power Consumption |
|--------------|------------------------------------------|-------------------|
| 912300060280 | BCB500 LED16-4S/740 PSU II S DGR MSP CLO | 11.3 W            |
| 912300060281 | BCB500 LED16-4S/830 PSU II S DGR MSP CLO | 12.8 W            |
| 912300060282 | BCB500 LED10-4S/740 PSU II A DGR MSP CLO | 7.6 W             |
| 912300060283 | BCB500 LED10-4S/830 PSU II A DGR MSP CLO | 9.1 W             |

| Order Code   | Full Product Name                        | Optical cover type             | Standard           |
|--------------|------------------------------------------|--------------------------------|--------------------|
|              |                                          |                                | tilt angle posttop |
| 912300060280 | BCB500 LED16-4S/740 PSU II S DGR MSP CLO | Polycarbonate bowl/cover clear | -                  |
| 912300060281 | BCB500 LED16-4S/830 PSU II S DGR MSP CLO | Polycarbonate bowl/cover clear | -                  |
| 912300060282 | BCB500 LED10-4S/740 PSU II A DGR MSP CLO | Polycarbonate bowl/cover clear | -                  |
| 912300060283 | BCB500 LED10-4S/830 PSU II A DGR MSP CLO | Polycarbonate bowl/cover clear | -                  |

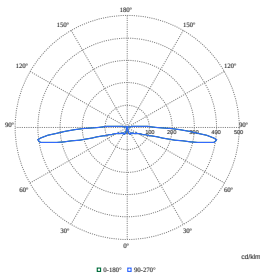
| Order Code   | Full Product Name                          | Driver failure rate at 5000 h |
|--------------|--------------------------------------------|-------------------------------|
| 912300024101 | BCB500 LED56-4S/740 S DGR                  | 0.5 %                         |
| 912300024102 | BCB500 LED56-4S/740 ANB14 II S DGR         | 0.5 %                         |
| 912300024103 | BCB500 LED27-4S/740 ANB14 II A DGR         | 0.5 %                         |
| 912300060278 | BCB500 LED16-4S/740 PSU II A DGR MSP CLO - |                               |
| 912300060279 | BCB500 LED16-4S/830 PSU II A DGR MSP CLO - |                               |

| Order Code   | Full Product Name                          | Driver failure rate at 5000 h |
|--------------|--------------------------------------------|-------------------------------|
| 912300060280 | BCB500 LED16-4S/740 PSU II S DGR MSP CLO - | -                             |
| 912300060281 | BCB500 LED16-4S/830 PSU II S DGR MSP CLO - | -                             |
| 912300060282 | BCB500 LED10-4S/740 PSU II A DGR MSP CLO - | -                             |
| 912300060283 | BCB500 LED10-4S/830 PSU II A DGR MSP CLO - | -                             |

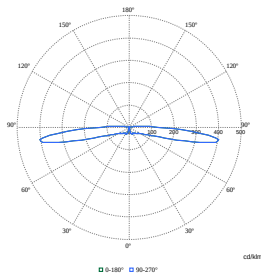
Polar Wide Diagrams



Polar Normal (separate) - BCB500I - 912300024103



Polar Normal (separate) - BCB500I - 912300024101



Polar Normal (separate) - BCB500I - 912300024102

