

# PRODUCT DATASHEET

## BLKH COMP RC SN V 9W ML 83040 WT

BULKHEAD COMPACT RECTANGULAR SENSOR | Robust wall and ceiling luminaire with IP65 protection and high-frequency sensor



### Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Corridors, stairways, entrance areas
- Passages, underpasses
- Public areas

### Product benefits

- Versatile due to selectable CCT in 3000K and 4000K
- Highly versatile due to selectable power steps (Power Select - PS) on the driver
- Multiple adjustments of sensor range, daylight detection and hold time
- Suitable for use in dusty and damp locations thanks to high IP rating
- Suitable for use in public areas thanks to high IK rating
- Multiple mounting patterns for convenient installation

### Product features

- High frequency sensor for daylight and motion detection
- Housing and cover made of UV-resistant PC
- Type of protection: IP65
- Impact resistance: IK10
- Luminous flux: up to 840 lm
- Lifetime (L70/B50) up to 50,000 h (at 25 °C)



- Ambient temperature in operation: -20...+45 °C
- Push wire terminal for tool-free connection
- Through-wiring possible

## TECHNICAL DATA

### Electrical data

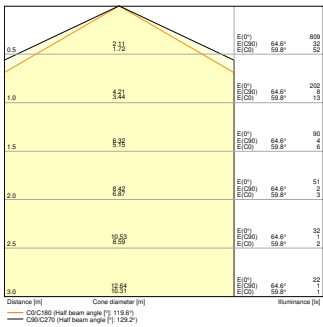
|                                                             |                               |
|-------------------------------------------------------------|-------------------------------|
| Nominal wattage                                             | 9 W / 7 W / 5 W <sup>1)</sup> |
| Nominal voltage                                             | 220...240 V                   |
| Mains frequency                                             | 50/60 Hz                      |
| Nominal current                                             | 63...56...49 mA               |
| Inrush current                                              | 4 A                           |
| Inrush current time T <sub>h50</sub>                        | 180 µs                        |
| Max. number of luminaires per miniature circuit breaker B16 | 104                           |
| Max. number of luminaires per miniature circuit breaker C10 | 87                            |
| Max. number of luminaires per miniature circuit breaker C16 | 140                           |
| Power factor λ                                              | > 0.5                         |
| Total harmonic distortion                                   | < 64 %                        |
| Protection class                                            | II                            |
| Operating mode                                              | Integrated LED driver         |

<sup>1)</sup> For possible options refer to lumen/power table image

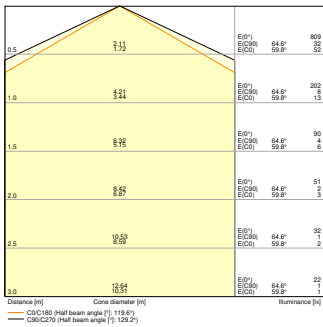
### Photometrical data

|                                              |                                            |
|----------------------------------------------|--------------------------------------------|
| Luminous flux                                | 840 lm / 690 lm / 500 lm <sup>1)</sup>     |
| Luminous efficacy                            | 93 lm/W / 98 lm/W / 100 lm/W <sup>1)</sup> |
| Color temperature                            | 3000 K / 4000 K                            |
| Light color (designation)                    | Warm White / Cool White                    |
| Color rendering index Ra                     | > 80                                       |
| Standard deviation of color matching         | 5 sdcm                                     |
| Low flicker                                  | Yes                                        |
| Flickering metric (Pst LM)                   | <1                                         |
| Stroboscope effect metric (SVM)              | <0.4                                       |
| Photobiological safety group acc. to EN62778 | RG0                                        |
| Beam angle                                   | 125 °                                      |

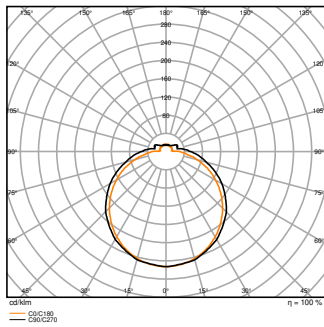
<sup>1)</sup> For possible options refer to lumen/power table image



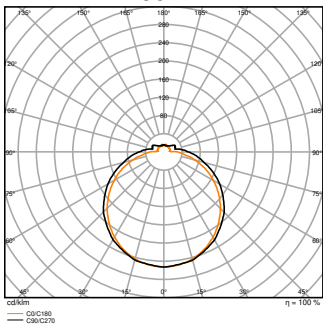
BLKH COMP RC SEN V 8W 830  
IP65 WT



BLKH COMP RC SEN V 8W 840  
IP65 WT



BLKH COMP RC SEN V 8W 830  
IP65 WT



BLKH COMP RC SEN V 8W 840  
IP65 WT

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 356.00 mm |
| Width          | 115.00 mm |
| Height         | 80.00 mm  |
| Product weight | 580.00 g  |



SF BLKH COMP RECTANGULAR

Materials & Colors

|                                            |                    |
|--------------------------------------------|--------------------|
| Product color                              | White              |
| Housing color                              | White              |
| RAL Color (most similar)                   | RAL 9003           |
| Body material                              | Polycarbonate (PC) |
| Cover material                             | Polycarbonate (PC) |
| Light emitting surface material            | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 850 °C             |
| Mercury content                            | 0.0 mg             |

### Application & Mounting

|                                        |                    |
|----------------------------------------|--------------------|
| Ambient temperature range              | -20...+45 °C       |
| Temperature range at storage           | -20...+80 °C       |
| Type of connection                     | Screwless terminal |
| Type of protection                     | IP65               |
| Protection class IK (shock resistance) | IK10               |
| Dimmable                               | No                 |
| Mounting type                          | Surface            |
| Mounting location                      | Ceiling / Wall     |
| 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  | 40000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 45000 h               |
| Lifespan L90/B10 at 25 °C  | 20000 h               |
| Number of switching cycles | 100000                |

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

### Control gear

|                             |                    |
|-----------------------------|--------------------|
| Output current              | 220...165...115 mA |
| ECG - Output ripple current | < 5 %              |

### Sensor

|                |                |
|----------------|----------------|
| Type of sensor | Motion / Light |
|----------------|----------------|

|                                        |              |
|----------------------------------------|--------------|
| Sensor technology                      | Microwave    |
| Sensor detection angle                 | 150 °        |
| Sensor controlled switching time       | 5 s...30 min |
| Detection range of motion sensor       | 2...8 m      |
| Detection threshold of daylight sensor | 2...50 lx    |
| Sensor IP rating                       | IP20         |

### Certificates & Standards

|                                                      |                                       |
|------------------------------------------------------|---------------------------------------|
| Standards                                            | CE / CB / UKCA / EAC / ENEC / TÜV SÜD |
| Luminaire with limited surface temperature, "D sign" | No                                    |
| Ball shot safe                                       | No                                    |
| EPD                                                  | LEDV-00052-V01.01-EN                  |

### Additional product data

|                |              |
|----------------|--------------|
| Added function | MULTI SELECT |
|----------------|--------------|

### EQUIPMENT / ACCESSORIES

- Mounting screws and dowels included
- Anti-theft screw included

### DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                      |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|
|  | User instruction / safety instructions | BULKHEAD COMPACT SEN               |
|  | Legal information                      | LSI BULKHEAD COMPACT               |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG |
|  | Legal information                      | Legal Insert G11193421             |
|  | Legal information                      | Safety Insert G11230262            |
|  | Declarations of conformity             | CE _BLKH COMP RC SEN V LUM         |
|  | Declarations of conformity UKCA        | UKCA_BULKH COMP RC SEN V LUM       |

| Documents and certificates                                                         |                                     | Document name                                                  |
|------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------|
|    | Certificates                        | ENEC BLKH COMP RC                                              |
| Photometric and lighting design files                                              |                                     | Document name                                                  |
|    | IES file (IES)                      | BLKH COMP RC SEN V 8W 830 IP65 WT                              |
|    | IES file (IES)                      | BLKH COMP RC SEN V 8W 840 IP65 WT                              |
|    | LDT file (Eulumdat)                 | BLKH COMP RC SEN V 8W 830 IP65 WT                              |
|    | LDT file (Eulumdat)                 | BLKH COMP RC SEN V 8W 840 IP65 WT                              |
|    | ULD file (DIALux)                   | BLKH COMP RC SEN V 8W CPS IP65 WT                              |
|    | ROLF file (RELUX)                   | BLKH COMP RC SEN V 8W CPS IP65 WT                              |
|   | UGR file (UGR table)                | BLKH COMP RC SEN V 8W 830 IP65 WT                              |
|  | UGR file (UGR table)                | BLKH COMP RC SEN V 8W 840 IP65 WT                              |
|  | Light distribution curve type cone  | BLKH COMP RC SEN V 8W 830 IP65 WT                              |
|  | Light distribution curve type cone  | BLKH COMP RC SEN V 8W 840 IP65 WT                              |
|  | Light distribution curve type polar | BLKH COMP RC SEN V 8W 830 IP65 WT                              |
|  | Light distribution curve type polar | BLKH COMP RC SEN V 8W 840 IP65 WT                              |
| CAD/BIM files                                                                      |                                     | Document name                                                  |
|  | BIM Revit 3D                        | Bulkhead Compact Rectangular                                   |
|  | CAD STEP 3D                         | BLKH COMP                                                      |
| Tender texts                                                                       |                                     | Document name                                                  |
|  | Tender documents                    | BULKHEAD COMPACT RECTANGULAR SENSOR RC SEN V 8W CPS IP65 WT-EN |

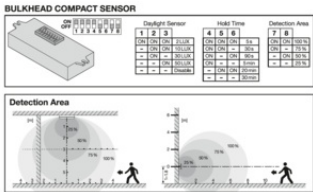
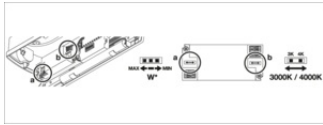
LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854290602 | Folding box<br>1             | 85 mm x 128 mm x 390 mm              | 670.00 g     | 4.24 dm <sup>3</sup>  |
| 4099854290619 | Shipping box<br>6            | 400 mm x 400 mm x 200 mm             | 4020.00 g    | 32.00 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.

ADDITIONAL CATALOG INFORMATION

| BLKH COMP RC SEN |      |      |      |      |      |      |
|------------------|------|------|------|------|------|------|
| W                | 9    |      | 7    |      | 5    |      |
| T                | 4000 | 3000 | 4000 | 3000 | 4000 | 3000 |
| lm               | 840  | 800  | 690  | 660  | 500  | 500  |
| lm/W             | 93   | 88   | 98   | 94   | 100  | 100  |



|                                     | B16 | B10 | C16 | C10 |
|-------------------------------------|-----|-----|-----|-----|
| BLKH COMP RC V 9W ML 83040 BK/WT    | 104 | 83  | 110 | 87  |
| BLKH COMP RC SN V 9W ML 83040 BK/WT |     |     |     |     |

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.