



# Setting the standard in Surface-mounted LED Downlight

## GreenSpace Surface-mounted

Philips GreenSpace Surface-mounted LED Downlight delivers a superior LED alternative that's up to 66% more energy efficient than the conventional downlight retrofits. Blending seamlessly into its environment, GreenSpace Surface-mounted LED Downlight mimics the form of conventional recessed downlights minus the associated high energy and maintenance costs. Philips GreenSpace Surface-mounted LED Downlight is also ideal for all commercial lighting applications as well as public indoor space where there is limited space in the ceiling.

### Benefits

- Lumen output: Different lumens in different sizes and mounting heights with options of 1000lm, 2000lm, 3800lm & 6600lm.
- Superior light performance: Colors rendered accurately(CRI>80) and high system efficacy(100lm/w)
- Varieties: IP20, IP65 version with choice of different lumen output, and option of black housing through tailor-made
- Long lifetime: 50,000 hour lifetime ensures more savings in the long run

### Features

- System efficacy: 100lm/W, energy saving up to 66% vs conventional downlights
- Reliable performance: Lifetime 50,000hours (L70B50@Ta25°C)
- Excellent light quality - CRI>=80 @3000K,4000K and 6500K
- Integral lightweight design – Installation cost is significantly reduced

## GreenSpace Surface-mounted

### Application

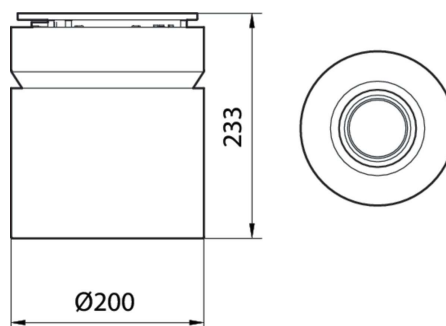
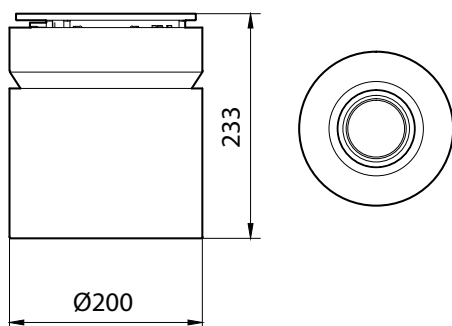
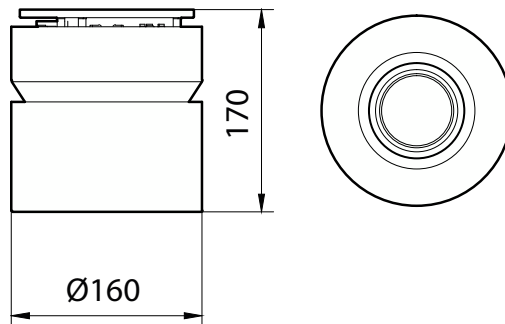
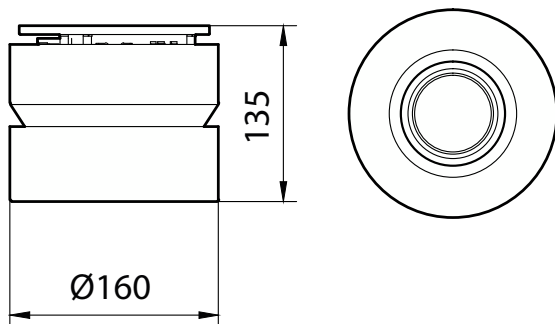
- Shopping mall
- Station concourse
- Canopy
- Airport public area
- Stadium public area

### Specifications

|                                         |                                                                  |
|-----------------------------------------|------------------------------------------------------------------|
| Mounting type                           | surface mounted                                                  |
| Operating Temperature range             | -20°C to +40°C                                                   |
| Light Source                            | LED module                                                       |
| Mains Voltage                           | 220-240V AC / 50-60Hz                                            |
| Dimming                                 | PSU: non-dimmable                                                |
| Material                                | Housing: Die-cast Aluminum                                       |
| Main color of the luminaire             | White<br>Black (ETO available )                                  |
| Lumen maintenance at median useful life | L70<br>50.000h                                                   |
| Luminous flux                           | LED10: 1000lm<br>LED20: 2000lm<br>LED40: 3800lm<br>LED70: 6600lm |

|                                    |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Power consumption                  | 10W, 20W, 38W, 66W                                                       |
| Luminaire efficacy                 | 100lm/W @840                                                             |
| Correlated color temperature - CCT | 3000K, 4000K, 6500K                                                      |
| Color Rendering index - CRI        | 80                                                                       |
| Beam angle                         | LED10 & LED20: 90°<br>LED40 & LED70: 60°                                 |
| Protection Class                   | Class I                                                                  |
| IEC61140                           |                                                                          |
| Ingress protection                 | IP20 & IP65 for LED40 & LED70 only                                       |
| Overall diameter                   | LED10/LED20: 160mm<br>LED70: 200mm<br>LED40: 160mm (IP20) & 200MM (IP65) |
| Installation                       | Surface Mount                                                            |

### Dimensional drawing



# GreenSpace Surface-mounted

## General Information

|                          |        |
|--------------------------|--------|
| Driver included          | Yes    |
| Light source replaceable | No     |
| Number of gear units     | 1 unit |
| Service tag              | Yes    |

## Light Technical

|                             |                   |
|-----------------------------|-------------------|
| Color rendering index (CRI) | >80               |
| Optic type                  | High-gloss mirror |

## Operating and Electrical

|                               |                |
|-------------------------------|----------------|
| Protection class IEC          | Safety class I |
| Input Voltage                 | 220 to 240 V   |
| Line Frequency                | 50 or 60 Hz    |
| Suitable for random switching | No             |

## Controls and Dimming

|          |    |
|----------|----|
| Dimmable | No |
|----------|----|

## Mechanical and Housing

|                              |           |
|------------------------------|-----------|
| Optical cover type           | Reflector |
| Mech. impact protection code | IK02      |

## Approval and Application

|                           |                                  |
|---------------------------|----------------------------------|
| Ambient temperature range | -20 to +40 °C                    |
| CE mark                   | Yes                              |
| ENEC mark                 | -                                |
| Flammability mark         | -                                |
| Glow-wire test            | Temperature 750 °C, duration 5 s |

## Initial Performance (IEC Compliant)

|                         |        |
|-------------------------|--------|
| Luminous flux tolerance | +/-10% |
|-------------------------|--------|

## Over Time Performance (IEC Compliant)

|                               |                |
|-------------------------------|----------------|
| Driver failure rate at 5000 h | 1.00 %         |
| Median useful life L80B50     | 40,000 hour(s) |
| Median useful life L90B50     | 20,000 hour(s) |

## Light Technical

| Order Code   | Full Product Name                | Beam angle<br>of light source | Correlated Color<br>Temperature<br>(Nom) | Luminous<br>Efficacy (rated)<br>(Nom) | Luminous Flux |
|--------------|----------------------------------|-------------------------------|------------------------------------------|---------------------------------------|---------------|
|              |                                  |                               |                                          |                                       |               |
| 911401509231 | SM291C LED10/840<br>PSU BK       | -                             | 4000 K                                   | 100 lm/W                              | 1,000 lm      |
| 911401509831 | SM293C LED20/840<br>PSU BK       | -                             | 4000 K                                   | 105 lm/W                              | 2,000 lm      |
| 911401847299 | SM291C LED10/840<br>PSU WH GM    | - degree(s)                   | 4000 K                                   | 100 lm/W                              | 1,000 lm      |
| 911401847399 | SM291C LED10/865 PSU<br>WH GM    | - degree(s)                   | 6500 K                                   | 100 lm/W                              | 1,000 lm      |
| 911401847499 | SM293C LED20/830<br>PSU WH GM    | - degree(s)                   | 3000 K                                   | 105 lm/W                              | 2,000 lm      |
| 911401847599 | SM293C LED20/840<br>PSU WH GM    | - degree(s)                   | 4000 K                                   | 105 lm/W                              | 2,000 lm      |
| 911401847699 | SM293C LED20/865<br>PSU WH GM    | - degree(s)                   | 6500 K                                   | 105 lm/W                              | 2,000 lm      |
| 911401847799 | SM295C LED70/840<br>PSU WP WH GM | - degree(s)                   | 4000 K                                   | 100 lm/W                              | 6,600 lm      |
| 911401847999 | SM294C LED40/840<br>PSU WP WH GM | - degree(s)                   | 4000 K                                   | 105 lm/W                              | 3,800 lm      |
| 911401848299 | SM294C LED40/865<br>PSU WP WH GM | - degree(s)                   | 6500 K                                   | 105 lm/W                              | 3,800 lm      |
| 911401848399 | SM294C LED40/830<br>PSU WP WH GM | - degree(s)                   | 3000 K                                   | 105 lm/W                              | 3,800 lm      |
| 911401848599 | SM294C LED40/830<br>PSU WH GM    | - degree(s)                   | 3000 K                                   | 100 lm/W                              | 3,800 lm      |
| 911401848699 | SM294C LED40/840<br>PSU WH GM    | - degree(s)                   | 4000 K                                   | 100 lm/W                              | 3,800 lm      |
| 911401848799 | SM294C LED40/865<br>PSU WH GM    | - degree(s)                   | 6500 K                                   | 100 lm/W                              | 3,800 lm      |

## Operating and Electrical

| Order Code   | Full Product Name          | Power Consumption |
|--------------|----------------------------|-------------------|
| 911401509231 | SM291C LED10/840 PSU BK    | 10 W              |
| 911401509831 | SM293C LED20/840 PSU BK    | 19 W              |
| 911401847299 | SM291C LED10/840 PSU WH GM | 10 W              |
| 911401847399 | SM291C LED10/865 PSU WH GM | 10 W              |
| 911401847499 | SM293C LED20/830 PSU WH GM | 19 W              |
| 911401847599 | SM293C LED20/840 PSU WH GM | 19 W              |
| 911401847699 | SM293C LED20/865 PSU WH GM | 19 W              |

| Order Code   | Full Product Name             | Power Consumption |
|--------------|-------------------------------|-------------------|
| 911401847799 | SM295C LED70/840 PSU WP WH GM | 66 W              |
| 911401847999 | SM294C LED40/840 PSU WP WH GM | 36 W              |
| 911401848299 | SM294C LED40/865 PSU WP WH GM | 36 W              |
| 911401848399 | SM294C LED40/830 PSU WP WH GM | 36 W              |
| 911401848599 | SM294C LED40/830 PSU WH GM    | 38 W              |
| 911401848699 | SM294C LED40/840 PSU WH GM    | 38 W              |
| 911401848799 | SM294C LED40/865 PSU WH GM    | 38 W              |

## Mechanical and Housing

GreenSpace Surface-mounted

| Order Code   | Full Product Name          | Ingress       |                 |
|--------------|----------------------------|---------------|-----------------|
|              |                            | Housing Color | protection code |
| 911401509231 | SM291C LED10/840 PSU BK    | Black         | IP20            |
| 911401509831 | SM293C LED20/840 PSU BK    | Black         | IP20            |
| 911401847299 | SM291C LED10/840 PSU WH GM | White         | IP20            |
| 911401847399 | SM291C LED10/865 PSU WH GM | White         | IP20            |
| 911401847499 | SM293C LED20/830 PSU WH GM | White         | IP20            |
| 911401847599 | SM293C LED20/840 PSU WH GM | White         | IP20            |
| 911401847699 | SM293C LED20/865 PSU WH GM | White         | IP20            |

| Order Code   | Full Product Name             | Ingress       |                 |
|--------------|-------------------------------|---------------|-----------------|
|              |                               | Housing Color | protection code |
| 911401847799 | SM295C LED70/840 PSU WP WH GM | White         | IP65            |
| 911401847999 | SM294C LED40/840 PSU WP WH GM | White         | IP65            |
| 911401848299 | SM294C LED40/865 PSU WP WH GM | White         | IP65            |
| 911401848399 | SM294C LED40/830 PSU WP WH GM | White         | IP65            |
| 911401848599 | SM294C LED40/830 PSU WH GM    | White         | IP20            |
| 911401848699 | SM294C LED40/840 PSU WH GM    | White         | IP20            |
| 911401848799 | SM294C LED40/865 PSU WH GM    | White         | IP20            |

Initial Performance (IEC Compliant)

| Order Code   | Full Product Name          | Initial chromaticity |
|--------------|----------------------------|----------------------|
| 911401509231 | SM291C LED10/840 PSU BK    | (0.38, 0.38) SDCM <5 |
| 911401509831 | SM293C LED20/840 PSU BK    | (0.38, 0.38) SDCM <5 |
| 911401847299 | SM291C LED10/840 PSU WH GM | (0.38, 0.38) SDCM <5 |
| 911401847399 | SM291C LED10/865 PSU WH GM | (0.31, 0.32) SDCM <5 |
| 911401847499 | SM293C LED20/830 PSU WH GM | (0.44, 0.40) SDCM <5 |
| 911401847599 | SM293C LED20/840 PSU WH GM | (0.38, 0.38) SDCM <5 |
| 911401847699 | SM293C LED20/865 PSU WH GM | (0.31, 0.32) SDCM <5 |

| Order Code   | Full Product Name             | Initial chromaticity |
|--------------|-------------------------------|----------------------|
| 911401847799 | SM295C LED70/840 PSU WP WH GM | (0.38, 0.38) SDCM <5 |
| 911401847999 | SM294C LED40/840 PSU WP WH GM | (0.38, 0.38) SDCM <5 |
| 911401848299 | SM294C LED40/865 PSU WP WH GM | (0.31, 0.32) SDCM <5 |
| 911401848399 | SM294C LED40/830 PSU WP WH GM | (0.44, 0.40) SDCM <5 |
| 911401848599 | SM294C LED40/830 PSU WH GM    | (0.44, 0.40) SDCM <5 |
| 911401848699 | SM294C LED40/840 PSU WH GM    | (0.38, 0.38) SDCM <5 |
| 911401848799 | SM294C LED40/865 PSU WH GM    | (0.31, 0.32) SDCM <5 |

