



# TrueCircle : Versatile LED ceiling luminaire in round shape

## TrueCircle Recessed

TrueCircle is a functional recessed round luminaire with a strict classical design to fit in almost any office space. It is a modern, unobtrusive designed family of luminaire providing direct diffuse light ensuring this luminaire will blend into the architecture of most buildings. This range features a selection 2different sizes, light outputs, and optics. The special micro prismatic optics provides glare-free comfort & also infuses the homogeneous light by offering full Office compliance. This new round luminaire from Philips offers sustainable solution with installation flexibility, creating exemplary illumination & high quality of light.

### Benefits

- Comfortable, glare-free Office-compliant
- Competitive solution with good lighting specifications
- Delivers the right visual comfort for various applications.
- Uniform Lighting distribution
- Easy to install & maintain: comes with all the accessories and cabling.

### Features

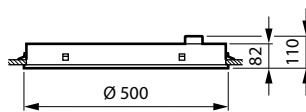
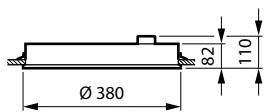
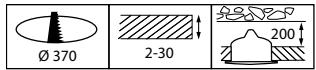
- Office-compliant lighting using PSP optics (UGR<19)
- Two lumen packages and sizes; 2000lm 38cm dia, 3600lm 50cm dia
- Comes with two colors(White & Black), two different optics(PSP & OC) & two different drivers(PSU-Non Dim & PSD-Dali dim) to cater for diverse applications
- 3000K, 4000K options with CRI >80
- Long lifetime 50,000 hours @L80, and a low SDCM of <3
- IP40 rating perfect for indoor applications
- Offers a complete range for round luminaire applications in office (main area, corridors/hallways)

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## Application

- Offices
- Hospitality
- Schools
- Residential

## Dimensional drawing



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| General Information                                                |                                                      |
|--------------------------------------------------------------------|------------------------------------------------------|
| Driver included                                                    | Yes                                                  |
| Gear                                                               | EB                                                   |
| Light source replaceable                                           | No                                                   |
| Number of gear units                                               | 1 unit                                               |
| Service tag                                                        | Yes                                                  |
| Light Technical                                                    |                                                      |
| Beam angle of light source                                         | 120 degree(s)                                        |
| Color rendering index (CRI)                                        | >80                                                  |
| Operating and Electrical                                           |                                                      |
| Protection class IEC                                               | Safety class I                                       |
| Input Voltage                                                      | 220 to 240 V                                         |
| Line Frequency                                                     | 50 to 60 Hz                                          |
| Suitable for random switching                                      | No                                                   |
| Mechanical and Housing                                             |                                                      |
| Housing Color                                                      | White                                                |
| Mech. impact protection code                                       | IK02                                                 |
| Ingress protection code                                            | IP20/40                                              |
| Emergency Operation                                                |                                                      |
| Central Emergency                                                  | No                                                   |
| Approval and Application                                           |                                                      |
| CE mark                                                            | Yes                                                  |
| ENEC mark                                                          | -                                                    |
| Flammability mark                                                  | For mounting on<br>normally<br>flammable<br>surfaces |
| Glow-wire test                                                     | Temperature 650<br>°C, duration 30 s                 |
| Flickering value (PstLM) - Flickering<br>value as per EN 61000-3-3 | 1                                                    |
| Stroboscopic effect visibility measure<br>(SVM)                    | 0.4                                                  |
| Initial Performance (IEC Compliant)                                |                                                      |
| Initial chromaticity                                               | (0.38, 0.38) SDCM<br><lt;/>3                         |
| Luminous flux tolerance                                            | +/-10%                                               |
| Over Time Performance (IEC Compliant)                              |                                                      |
| Driver failure rate at 5000 h                                      | 80 %                                                 |

## Light Technical

| Order Code   | Full Product Name              | Correlated Color  |                                 |               | Optic type |
|--------------|--------------------------------|-------------------|---------------------------------|---------------|------------|
|              |                                | Temperature (Nom) | Luminous Efficacy (rated) (Nom) | Luminous Flux |            |
| 912401483433 | RC250B 20S/830 PSU PSP D380 WH | 3000 K            | 102 lm/W                        | 2,000 lm      | Wide beam  |
| 912401483434 | RC250B 20S/840 PSD PSP D380 WH | 4000 K            | 101 lm/W                        | 2,000 lm      | Wide beam  |
| 912401483435 | RC250B 20S/830 PSD PSP D380 WH | 3000 K            | 98 lm/W                         | 2,000 lm      | Wide beam  |
| 912401483456 | RC250B 20S/840 PSU PSP D380 WH | 4000 K            | 102 lm/W                        | 2,000 lm      | Wide beam  |
| 912401483436 | RC250B 37S/840 PSU O D500 WH   | 4000 K            | 104 lm/W                        | 3,700 lm      | Opal       |
| 912401483437 | RC250B 37S/830 PSU O D500 WH   | 3000 K            | 104 lm/W                        | 3,700 lm      | Opal       |
| 912401483438 | RC250B 37S/840 PSD O D500 WH   | 4000 K            | 104 lm/W                        | 3,700 lm      | Opal       |
| 912401483439 | RC250B 37S/830 PSD O D500 WH   | 3000 K            | 104 lm/W                        | 3,700 lm      | Opal       |

## Operating and Electrical

| Order Code   | Full Product Name              | Power Consumption |
|--------------|--------------------------------|-------------------|
| 912401483433 | RC250B 20S/830 PSU PSP D380 WH | 19.5 W            |
| 912401483434 | RC250B 20S/840 PSD PSP D380 WH | 20 W              |
| 912401483435 | RC250B 20S/830 PSD PSP D380 WH | 20.5 W            |

| Order Code   | Full Product Name              | Power Consumption |
|--------------|--------------------------------|-------------------|
| 912401483456 | RC250B 20S/840 PSU PSP D380 WH | 19.5 W            |
| 912401483436 | RC250B 37S/840 PSU O D500 WH   | 35.5 W            |
| 912401483437 | RC250B 37S/830 PSU O D500 WH   | 35.5 W            |

# TrueCircle Recessed

| Order Code   | Full Product Name            | Power Consumption |
|--------------|------------------------------|-------------------|
| 912401483438 | RC250B 37S/840 PSD O D500 WH | 35.5 W            |

| Order Code   | Full Product Name            | Power Consumption |
|--------------|------------------------------|-------------------|
| 912401483439 | RC250B 37S/830 PSD O D500 WH | 35.5 W            |

## Controls and Dimming

| Order Code   | Full Product Name              | Dimmable | Maximum dim level |
|--------------|--------------------------------|----------|-------------------|
| 912401483433 | RC250B 20S/830 PSU PSP D380 WH | No       | Not applicable    |
| 912401483434 | RC250B 20S/840 PSD PSP D380 WH | Yes      | 1%                |
| 912401483435 | RC250B 20S/830 PSD PSP D380 WH | Yes      | 1%                |
| 912401483456 | RC250B 20S/840 PSU PSP D380 WH | No       | Not applicable    |

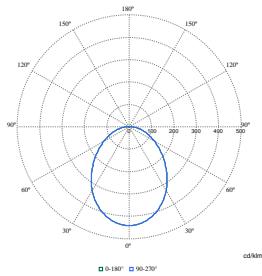
| Order Code   | Full Product Name            | Dimmable | Maximum dim level |
|--------------|------------------------------|----------|-------------------|
| 912401483436 | RC250B 37S/840 PSU O D500 WH | No       | Not applicable    |
| 912401483437 | RC250B 37S/830 PSU O D500 WH | No       | Not applicable    |
| 912401483438 | RC250B 37S/840 PSD O D500 WH | Yes      | 1%                |
| 912401483439 | RC250B 37S/830 PSD O D500 WH | Yes      | 1%                |

## Approval and Application

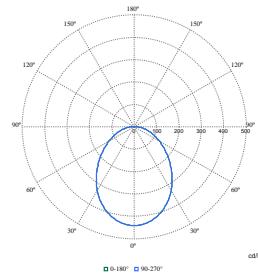
| Order Code   | Full Product Name              | Ambient temperature range |
|--------------|--------------------------------|---------------------------|
| 912401483433 | RC250B 20S/830 PSU PSP D380 WH | -10 to +40 °C             |
| 912401483434 | RC250B 20S/840 PSD PSP D380 WH | -10 to +40 °C             |
| 912401483435 | RC250B 20S/830 PSD PSP D380 WH | -10 to +40 °C             |
| 912401483456 | RC250B 20S/840 PSU PSP D380 WH | -10 to +40 °C             |

| Order Code   | Full Product Name            | Ambient temperature range |
|--------------|------------------------------|---------------------------|
| 912401483436 | RC250B 37S/840 PSU O D500 WH | -10 to +35 °C             |
| 912401483437 | RC250B 37S/830 PSU O D500 WH | -10 to +35 °C             |
| 912401483438 | RC250B 37S/840 PSD O D500 WH | -10 to +35 °C             |
| 912401483439 | RC250B 37S/830 PSD O D500 WH | -10 to +35 °C             |

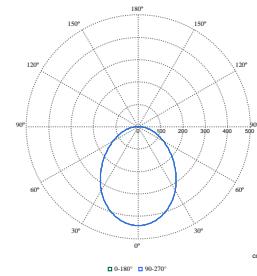
## Polar Wide Diagrams



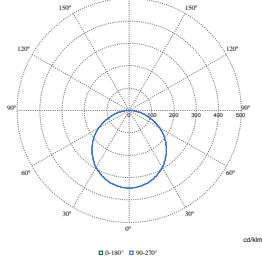
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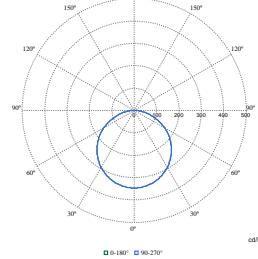
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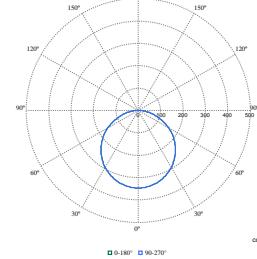
Polar Normal (separate) - null - 912401483435



Polar Normal (separate) - null - 912401483456



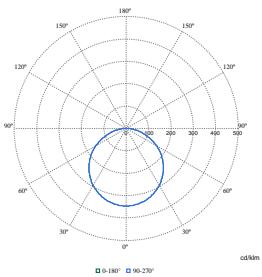
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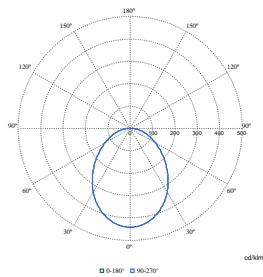
Polar Normal (separate) - null - 912401483437

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### Polar Wide Diagrams



Polar Normal (separate) - null - 912401483436



Polar Normal (separate) - null - 912401483456

