



# CoreLine SlimDownlight - the clear choice for LED

## CoreLine SlimDownlight

CoreLine SlimDownlight is a range of ultra-thin recessed luminaires designed to replace downlight luminaires based on CFL-ni/CFL-I lamp technology. The product's attractive TCO makes it easy for customers to make the switch to LED. CoreLine SlimDownlight delivers a natural 'surface of light' effect for use in general lighting applications. It also offers instant energy savings and a much longer lifetime, making it a real value-for-money and environmentally friendly solution. Installation is easy, as the luminaire fits the same size of cut-out and has an extremely small build-in depth.

### Benefits

- Energy savings and longer lifetime reduce operating costs
- One-to-one replacement for conventional luminaires
- The natural 'surface of light' effect creates a comfortable, high-end look

### Features

- Diffuse light quality
- Product height of less than 50 mm: fits more ceiling types
- Surface-mounted version enables luminaire to be positioned anywhere
- Available in 1000 and 2000 lumen versions
- Choice of color temperature: 3000 and 4000 K

### Application

- General lighting in corridors
- Retail stores
- Reception areas
- Indoor circulation areas

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## Specifications

|   |   |
|---|---|
| <b>Installation</b>                         | Through-wiring possible   |
| <b>Light Source</b>                         | Non-replaceable LED module  |
| <b>Light source color</b>                   | 830 warm white, 840 neutral white   |
| <b>Light source replaceable</b>             | No  |
| <b>Material</b>                             | Bracket:  |
| <b>Material</b>                             | Gear box:   |
| <b>Type</b>                                 | DN145B<br>DN145B (recessed version)DN145C (surface mounted version)   |
| <b>Initial input power</b>                  | 11 W, 13 W, 21 W, 22.5 W, 6.5 W   |
| <b>Initial luminous flux</b>                | 650, 1100, 2100 lm  |
| <b>Initial correlated color temperature</b> | 3000 K, 4000 K  |
| <b>Driver failure rate at 5000 h in %</b>   | 0.0015 %  |
| <b>Ambient Temperature</b>                  | 0 to +35 °C   |
| <b>Driver</b>                               | Power supply unit (Power supply unit)<br>Power supply unit with DALI interface (Power supply unit with DALI interface)<br>Power supply unit with SystemReady interface (Power supply unit with SystemReady interface) |

|                                    |   |
|------------------------------------|---|
| <b>Input voltage</b>               | 220 to 240 V                                    |
| <b>Input frequency</b>             | 50 or 60 Hz                                     |
| <b>Dimming</b>                     | No, yes   |
| <b>Optic</b>                       | Beam angle 90°                                  |
| <b>Optical cover</b>               | Polymethyl methacrylate                         |
| <b>Material</b>                    | Housing: aluminum die cast                      |
| <b>Material</b>                    | Reflector: -                                    |
| <b>Main color of the Luminaire</b> | White RAL9016                                   |
| <b>Connection</b>                  | Connection unit 2-pole (Connection unit 2-pole) |
| <b>Through wiring</b>              | Yes   |
| <b>Warranty period</b>             | 5 years   |

## Versions



Coreline SlimDownlight-DN145B 20S



Coreline Slimdownlight G3\_LSC - 830 warm white - Power supply unit with DALI interface - Safety class II - White



830 warm white - Power supply unit - Safety class II - White



830 warm white - Power supply unit - Safety class II - White

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## Versions



830 warm white - Power supply unit - Safety class II - White

### Application Conditions

|                               |                |
|-------------------------------|----------------|
| Ambient temperature range     | 0 to +35 °C    |
| Maximum dim level             | Not applicable |
| Suitable for random switching | Yes            |

### Approval and Application

|                              |      |
|------------------------------|------|
| Mech. impact protection code | IK02 |
|------------------------------|------|

### Operating and Electrical

|               |              |
|---------------|--------------|
| Input Voltage | 220 to 240 V |
|---------------|--------------|

### General Information

|                          |                      |
|--------------------------|----------------------|
| CE mark                  | CE mark              |
| Protection class IEC     | Safety class II (II) |
| Driver included          | Yes                  |
| ENEC mark                | ENEC mark            |
| Flammability mark        | F                    |
| Glow-wire test           | 650/30               |
| Light source replaceable | No                   |
| Number of gear units     | 1 unit               |
| Optic type               | 90                   |
| Service tag              | Yes                  |

### Initial Performance (IEC Compliant)

|                             |        |
|-----------------------------|--------|
| Init. Color Rendering Index | >80    |
| Luminous flux tolerance     | +/-10% |

### Mechanical and Housing

|       |               |
|-------|---------------|
| Color | White RAL9016 |
|-------|---------------|

## Approval and Application

| Order Code | Full Product Name             | Ingress protection code |
|------------|-------------------------------|-------------------------|
| 96098899   | DN145B LED20S/830 IA1 WH      | IP20/44                 |
| 96099599   | DN145B LED20S/840 IA1 WH      | IP20/44                 |
| 96102299   | DN145B LED20S/830 PSD-E II WH | IP20/44                 |
| 33949899   | DN145B LED20S/830 PSU II WH   | IP20/44                 |
| 33950499   | DN145B LED20S/840 PSU II WH   | IP20/44                 |
| 96100899   | DN145B LED10S/830 PSD-E II WH | IP20/44                 |
| 96101599   | DN145B LED10S/840 PSD-E II WH | IP20/44                 |
| 33947499   | DN145B LED10S/830 PSU II WH   | IP20/44                 |
| 33948199   | DN145B LED10S/840 PSU II WH   | IP20/44                 |
| 33946799   | DN145B LED6S/840 PSU II WH    | IP20/44                 |
| 33951199   | DN145C LED10S/830 PSU II WH   | IP44                    |
| 33952899   | DN145C LED10S/840 PSU II WH   | IP44                    |
| 33953599   | DN145C LED20S/830 PSU II WH   | IP44                    |
| 33954299   | DN145C LED20S/840 PSU II WH   | IP44                    |

## Controls and Dimming

| Order Code | Full Product Name             | Dimmable | Order Code | Full Product Name             | Dimmable |
|------------|-------------------------------|----------|------------|-------------------------------|----------|
| 96098899   | DN145B LED20S/830 IA1 WH      | Yes      | 96101599   | DN145B LED10S/840 PSD-E II WH | Yes      |
| 96099599   | DN145B LED20S/840 IA1 WH      | Yes      | 33947499   | DN145B LED10S/830 PSU II WH   | No       |
| 96102299   | DN145B LED20S/830 PSD-E II WH | Yes      | 33948199   | DN145B LED10S/840 PSU II WH   | No       |
| 33949899   | DN145B LED20S/830 PSU II WH   | No       | 33946799   | DN145B LED6S/840 PSU II WH    | No       |
| 33950499   | DN145B LED20S/840 PSU II WH   | No       | 33951199   | DN145C LED10S/830 PSU II WH   | No       |
| 96100899   | DN145B LED10S/830 PSD-E II WH | Yes      | 33952899   | DN145C LED10S/840 PSU II WH   | No       |

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| Order Code | Full Product Name           | Dimmable |
|------------|-----------------------------|----------|
| 33953599   | DN145C LED20S/830 PSU II WH | No       |

| Order Code | Full Product Name           | Dimmable |
|------------|-----------------------------|----------|
| 33954299   | DN145C LED20S/840 PSU II WH | No       |

### General Information (1/2)

| Order Code | Full Product Name             | Optical cover/ lens type | Lamp family code | Number of light sources | Product Family Code |
|------------|-------------------------------|--------------------------|------------------|-------------------------|---------------------|
| 96098899   | DN145B LED20S/830 IA1 WH      | -                        | -                | -                       | DN145B              |
| 96099599   | DN145B LED20S/840 IA1 WH      | -                        | -                | -                       | DN145B              |
| 96102299   | DN145B LED20S/830 PSD-E II WH | O                        | LED20S           | 1                       | DN145B              |
| 33949899   | DN145B LED20S/830 PSU II WH   | O                        | LED20S           | 1                       | -                   |
| 33950499   | DN145B LED20S/840 PSU II WH   | O                        | LED20S           | 1                       | -                   |
| 96100899   | DN145B LED10S/830 PSD-E II WH | O                        | LED10S           | 1                       | DN145B              |
| 96101599   | DN145B LED10S/840 PSD-E II WH | O                        | LED10S           | 1                       | DN145B              |

| Order Code | Full Product Name           | Optical cover/ lens type | Lamp family code | Number of light sources | Product Family Code |
|------------|-----------------------------|--------------------------|------------------|-------------------------|---------------------|
| 33947499   | DN145B LED10S/830 PSU II WH | O                        | LED10S           | 1                       | -                   |
| 33948199   | DN145B LED10S/840 PSU II WH | O                        | LED10S           | 1                       | -                   |
| 33946799   | DN145B LED6S/840 PSU II WH  | O                        | LED6S            | 1                       | -                   |
| 33951199   | DN145C LED10S/830 PSU II WH | O                        | LED10S           | 1                       | -                   |
| 33952899   | DN145C LED10S/840 PSU II WH | O                        | LED10S           | 1                       | -                   |
| 33953599   | DN145C LED20S/830 PSU II WH | O                        | LED20S           | 1                       | -                   |
| 33954299   | DN145C LED20S/840 PSU II WH | O                        | LED20S           | 1                       | -                   |

### General Information (2/2)

| Order Code | Full Product Name             | Standard RAL color |
|------------|-------------------------------|--------------------|
| 96098899   | DN145B LED20S/830 IA1 WH      | -                  |
| 96099599   | DN145B LED20S/840 IA1 WH      | -                  |
| 96102299   | DN145B LED20S/830 PSD-E II WH | White RAL9016      |
| 33949899   | DN145B LED20S/830 PSU II WH   | White RAL9016      |
| 33950499   | DN145B LED20S/840 PSU II WH   | White RAL9016      |
| 96100899   | DN145B LED10S/830 PSD-E II WH | White RAL9016      |
| 96101599   | DN145B LED10S/840 PSD-E II WH | White RAL9016      |

| Order Code | Full Product Name           | Standard RAL color |
|------------|-----------------------------|--------------------|
| 33947499   | DN145B LED10S/830 PSU II WH | White RAL9016      |
| 33948199   | DN145B LED10S/840 PSU II WH | White RAL9016      |
| 33946799   | DN145B LED6S/840 PSU II WH  | White RAL9016      |
| 33951199   | DN145C LED10S/830 PSU II WH | White RAL9016      |
| 33952899   | DN145C LED10S/840 PSU II WH | White RAL9016      |
| 33953599   | DN145C LED20S/830 PSU II WH | White RAL9016      |
| 33954299   | DN145C LED20S/840 PSU II WH | White RAL9016      |

### Initial Performance (IEC Compliant) (1/2)

| Order Code | Full Product Name             | Initial chromaticity | Init. Corr. Color Temperature | Initial LED luminaire efficacy | Initial luminous flux |
|------------|-------------------------------|----------------------|-------------------------------|--------------------------------|-----------------------|
| 96098899   | DN145B LED20S/830 IA1 WH      | (0.43657,0.40454)    | 3000 K                        | 93 lm/W                        | 2100 lm               |
| 96099599   | DN145B LED20S/840 IA1 WH      | (0.38212,0.38031)    | 4000 K                        | 93 lm/W                        | 2100 lm               |
| 96102299   | DN145B LED20S/830 PSD-E II WH | (0.43657,0.40454)    | 3000 K                        | 93 lm/W                        | 2100 lm               |
| 33949899   | DN145B LED20S/830 PSU II WH   | (0.43657,0.40454)    | 3000 K                        | 100 lm/W                       | 2100 lm               |

| Order Code | Full Product Name             | Initial chromaticity | Init. Corr. Color Temperature | Initial LED luminaire efficacy | Initial luminous flux |
|------------|-------------------------------|----------------------|-------------------------------|--------------------------------|-----------------------|
| 33950499   | DN145B LED20S/840 PSU II WH   | (0.38212,0.38031)    | 4000 K                        | 100 lm/W                       | 2100 lm               |
| 96100899   | DN145B LED10S/830 PSD-E II WH | (0.43657,0.40454)    | 3000 K                        | 85 lm/W                        | 1100 lm               |
| 96101599   | DN145B LED10S/840 PSD-E II WH | (0.38212,0.38031)    | 4000 K                        | 85 lm/W                        | 1100 lm               |
| 33947499   | DN145B LED10S/830 PSU II WH   | (0.43657,0.40454)    | 3000 K                        | 100 lm/W                       | 1100 lm               |

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| Order Code | Full Product Name                  | Initial chromaticity | Init. Corr. Color Temperature | Initial LED luminaire efficacy | Initial luminous flux |
|------------|------------------------------------|----------------------|-------------------------------|--------------------------------|-----------------------|
| 33948199   | DN145B LED10S/840 SDCM<3 PSU II WH | (0.38212,0.38031)    | 4000 K                        | 100 lm/W                       | 1100 lm               |
| 33946799   | DN145B LED6S/840 SDCM<3 PSU II WH  | (0.38212,0.38031)    | 4000 K                        | 100 lm/W                       | 650 lm                |
| 33951199   | DN145C LED10S/830 SDCM<3 PSU II WH | (0.43657,0.40454)    | 3000 K                        | 100 lm/W                       | 1100 lm               |

| Order Code | Full Product Name                    | Initial chromaticity | Init. Corr. Color Temperature | Initial LED luminaire efficacy | Initial luminous flux |
|------------|--------------------------------------|----------------------|-------------------------------|--------------------------------|-----------------------|
| 33952899   | DN145C LED10S/840 SDCM<3 PSU II WH   | (0.38212,0.38031)    | 4000 K                        | 100 lm/W                       | 1100 lm               |
| 33953599   | DN145C LED20S/830 SDCM<3 O PSU II WH | (0.43657,0.40454)    | 3000 K                        | 100 lm/W                       | 2100 lm               |
| 33954299   | DN145C LED20S/840 SDCM<3 O PSU II WH | (0.38212,0.38031)    | 4000 K                        | 100 lm/W                       | 2100 lm               |

### Initial Performance (IEC Compliant) (2/2)

| Order Code | Full Product Name             | Initial input power |
|------------|-------------------------------|---------------------|
| 96098899   | DN145B LED20S/830 IA1 WH      | 22.5 W              |
| 96099599   | DN145B LED20S/840 IA1 WH      | 22.5 W              |
| 96102299   | DN145B LED20S/830 PSD-E II WH | 22.5 W              |
| 33949899   | DN145B LED20S/830 PSU II WH   | 21 W                |
| 33950499   | DN145B LED20S/840 PSU II WH   | 21 W                |
| 96100899   | DN145B LED10S/830 PSD-E II WH | 13 W                |
| 96101599   | DN145B LED10S/840 PSD-E II WH | 13 W                |

| Order Code | Full Product Name           | Initial input power |
|------------|-----------------------------|---------------------|
| 33947499   | DN145B LED10S/830 PSU II WH | 11 W                |
| 33948199   | DN145B LED10S/840 PSU II WH | 11 W                |
| 33946799   | DN145B LED6S/840 PSU II WH  | 6.5 W               |
| 33951199   | DN145C LED10S/830 PSU II WH | 11 W                |
| 33952899   | DN145C LED10S/840 PSU II WH | 11 W                |
| 33953599   | DN145C LED20S/830 PSU II WH | 21 W                |
| 33954299   | DN145C LED20S/840 PSU II WH | 21 W                |

