


**PROJECT**
**TYPE**
**NOTES**
**QUANTITY**
**DATE**


Round ceiling recessed downlight made from die-cast aluminium; surface Black Matt; powder coated, matt texture; RAL 9005; installation without tools using wire springs; suitable for ceiling thickness of 4-38 mm; recessed depth 90 mm; with COB (Chip on Board) technology for maximum efficiency; light colour 2700 K; binning initial MacAdam  $\leq 2$  SDCM; CRI  $\geq 90$ ; beam angle 15°; degree of protection IP20; Class 3; driver not included; light source replaceable by Wever & Ducré or by a professional with explicit authorization;


**GENERAL**

|                             |        |
|-----------------------------|--------|
| Ceiling                     | 500mA  |
| Recessed                    | 685 lm |
| Black Matt                  | 9 W    |
| RAL 9005 <sup>a</sup>       |        |
| IP20                        |        |
| Interior                    |        |
| CIE flux code: 92 97 99 100 |        |
| 100                         |        |

**MEASURED DRIVERS**

|        |
|--------|
| 350mA  |
| 505 lm |
| 6 W    |

**LED**

|                               |
|-------------------------------|
| 2700 K                        |
| CRI $\geq 90$                 |
| initial MacAdam $\leq 2$ SDCM |

**OPTICAL**

|                |
|----------------|
| Narrow         |
| beam angle 15° |

**ELECTRICAL**

|                 |
|-----------------|
| excl. driver    |
| 17 V            |
| inset 6.0 9.0 W |
| Class 3         |

**PHYSICAL**

|                |
|----------------|
| diameter 84 mm |
| height 86 mm   |
| 0.17 kg        |
| wire springs   |

**CUTOUT**

|                              |
|------------------------------|
| diameter 76-79 mm            |
| min. ceiling thickness 4 mm  |
| max. ceiling thickness 38 mm |
| recessed depth 90 mm         |

<sup>a</sup> Colour may deviate slightly due to production conditions.


**Maintenance Factor**

| Operating Time [h] | 10.000 | 20.000 | 30.000 | 40.000 | 50.000 |
|--------------------|--------|--------|--------|--------|--------|
| LLMF               | 0.96   | 0.92   | 0.88   | 0.85   | 0.81   |
| LSF                | 1      | 1      | 1      | 1      | 1      |

|      |  |       |                                 |
|------|--|-------|---------------------------------|
| MF   | $LMF \times RSMF \times LLMF \times LSF$ | RSMFa | Room Surface Maintenance Factor |
| MF   | Maintenance Factor                       | LLMF  | Lamp Lumens Maintenance Factor  |
| LMFa | Luminaire Maintenance Factor             | LSF   | Lamp Survival Factor            |

<sup>a</sup>According to "CIE 97, Maintenance of indoor electric lighting systems", 2005, ISBN 3-900-734-34-8. The values must be determined by the planner.

**ELECTRICAL ACCESSORIES**
**Driver**

| Type                                 | Voltage | L-W-H (MM)  | Item number |
|--------------------------------------|---------|-------------|-------------|
| 10W   500mA   11-20V                 | 11-20V  | 100-43-23   | 90214405    |
| 10W   500mA   13-20V                 | 13-20V  | 65-39-20    | 90214406    |
| 10W   500mA   3-20V   phase-cut dim  | 3-20V   | 102-49-29   | 90224402    |
| 10W   500mA   12-21V   phase-cut dim | 12-21V  | 115-41-25   | 90224403    |
| 20W   500mA   3-40V   DALI           | 3-40V   | 116-40.5-22 | 90244604    |
| 24W   500mA   6-49V   DALI-2         | 6-49V   | 143-43-30   | 90244701    |