

[www.tempLED.de](http://www.tempLED.de)



**tempLED**

RECESSED CEILING SPOTLIGHT SYSTEM  
**tempLED RayDown V2**  
20 | 25 | 30 | 35 | 40

OFFICE LIGHTING 

# tempLED



initial system efficiency up to 120 lm / w

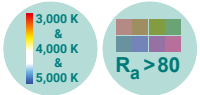


high-performance heat sink with chimney effect

solid and powder-coated aluminium luminaire housing



durable and bright LED light field with switchable color temperature between 3,000, 4,000 and 5,000 kelvins



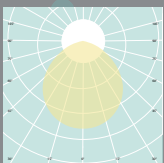
according to standard IK02 impact resistant diffuser made of polycarbonate for glare free lighting



quick and easy snap-in installation with spring clips

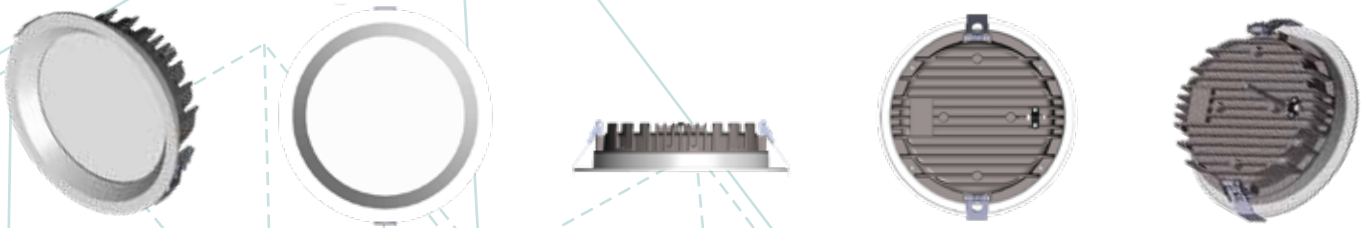


## Light distribution curve tempLED RayDown V2 20 | 25 | 30 | 35 | 40

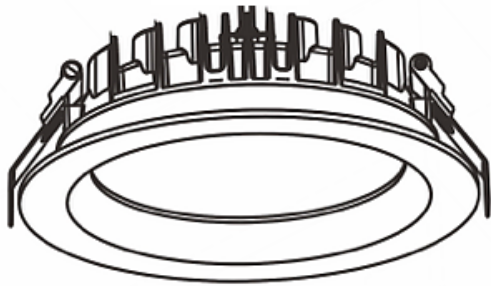


100 degrees symmetrical

example pictures tempLED RayDown V2



Dimensions tempLED RayDown V2



tempLED RayDown V2 20 / 25 DALI with cut-out hole  $\varnothing$  110 - 120 mm:  $\varnothing$  134 mm  
tempLED RayDown V2 35 / 30 DALI with cut-out hole  $\varnothing$  165 - 175 mm:  $\varnothing$  188 mm  
tempLED RayDown V2 40 / 40 DALI with cut-out hole  $\varnothing$  195 - 208 mm:  $\varnothing$  227 mm



## General technical data

according to IEC, identical for all types of luminaires



in preparation



### Lighting properties:

initial luminous flux at 4,000 kelvins:	up to 4,800 lumens
luminous flux tolerance:	± 10 percent
initial system efficiency at 4,000 kelvins:	up to 120 lumen per watt
initial, most similar color temperature:	switchable between 3,000, 4,000 and 5,000 kelvins
initial color rendering index (CRI):	Ra > 80   Ra > 90
initial color consistency:	< 5 SDCM
available symmetrical beam angles:	100 degrees
photobiological safety:	IEC/TR 62778: 1
compact flicker degree (CFD):	1 percent
stroboscopic visibility measurement (SVM):	≤ 0.023
short time flicker (Pst LM):	≤ 0.02

### Electrotechnical properties:

power supply AC:	220 to 240 volts
supply frequency:	50 / 60 hertz
power supply DC (valid for models with DALI dimming only):	180 to 250 volts
system performance:	12 to 40 watts
system performance tolerance:	± 10 percent
power factor:	> 0.90
overvoltage protection:	yes
overheating protection:	yes
temperature monitoring:	yes
total harmonic distortion (THD):	< 20 percent
temperature classification (ATEX):	T6
Tc - temperature:	+65 degrees Celsius

### Energy characteristics:

Valid for all tempLED RayDown V2 with Ra > 80:	This product contains a light source of energy efficiency class E.
Valid for all tempLED RayDown V2 with Ra > 90:	This product contains a light source of energy efficiency class F.

### Mounting options:

standard mounting options:	recessed ceiling mounting
----------------------------	---------------------------

**Control and safety properties:**

dimming:	DALI-2 optional
minimum dimming level:	20 percent
constant lumen output (CLO):	optional
emergency light module:	on request <sup>1</sup>

**Housing properties:**

ambient temperature:	-20 to +45 degrees celsius
ingress protection (in installed condition):	IP 54
impact resistance level:	IK02
electrical protection class:	II
housing and heat sink material(s):	die-cast aluminum
spring clips material and finish:	natural steel
cover plate material:	polycarbonate
cover plate finish:	opaque
luminaire housing color:	traffic white white according to RAL 9016 <sup>2</sup>
surface finish:	powder coating <sup>2</sup>
supply cable length between power supply and luminaire:	50 centimeters
supply cable connection type:	luminaire connector within the power supply
number of poles for types without dimming:	2 grid
number of poles for types with DALI dimming:	2 grid / 2 DALI

**Additional information:**

certificates:	ENEC in preparation
conformities:	CE and RoHS
lifespan (L70B10C1):	approx. 50,000 hours
lifespan (L90B10C1):	approx. 25,000 hours
guarantee:	5 years <sup>3</sup>
spare part guarantee:	10 years
delievery includes:	luminaire, power supply, 2x spring clips

<sup>1</sup> can only be used at ambient temperatures from +5 to +45 degrees Celsius.

<sup>2</sup> optional luminaire housing colors and finishes: Paintings according to RAL colour chart, powder coatings according to RAL colour chart or synthetic resin coating.

<sup>3</sup> according to the warranty conditions of tempLED GmbH, excluding accessories.

**Logistic information:**

luminaire:	RayDown V2 [Ø 134 mm]	RayDown V2 [Ø 188 mm]	RayDown V2 [Ø 227 mm]
number of luminaires per package:	1	1	1
number of luminaires per master carton:	32	18	12
number of luminaires per pallet:	768	432	288
weight of the luminaire:	390 g	670 g	890 g
weight per package:	460 g	800 g	1,100 g
package dimensions L x W x H:	135 x 135 x 87 mm	220 x 190 x 68 mm	269 x 244 x 68 mm
weight per master carton:	17,000 g	15,500 g	14,500 g
master carton dimensions L x W x H:	570 x 350 x 295 mm	590 x 232 x 425 mm	510 x 290 x 430 mm



## tempLED 25

## RayDown V2 25 - 100 CCT

## RayDown V2 25 - 100 CCT Ra90

article number:	880113	880119
GTIN / EAN:	4262493351717	4262493351861
initial luminous flux at 3,000 K:	from 1,400 to 2,700 lm	from 1,164 to 2,425 lm
initial luminous flux at 4,000 K:	from 1,560 to 3,000 lm	from 1,296 to 2,700 lm
initial luminous flux at 5,000 K:	from 1,480 to 2,850 lm	from 1,224 to 2,550 lm
initial system efficiency at 3,000 K:	108 lm/W	97 lm/W
initial system efficiency at 4,000 K:	120 lm/W	108 lm/W
initial system efficiency at 5,000 K:	114 lm/W	102 lm/W
initial, most similar color temperature:	switchable between 3,000 / 4,000 / 5,000 K	switchable between 3,000 / 4,000 / 5,000 K
initial color rendering index:	Ra > 80	Ra > 90
light distribution:	symmetrical	symmetrical
beam angle:	100 degrees	100 degrees
dimming / control:	none	none
system performance:	switchable between 12 / 14 / 16 / 18 / 21 / 23 / 25 W	switchable between 12 / 14 / 16 / 18 / 21 / 23 / 25 W
power consumption:	up to 0.11 A	up to 0.11 A
maximum inrush current:	10.7 A	10.7 A
dimensions (Ø x H) luminaire:	134 x 52 mm	134 x 52 mm
dimensions (L x W x H) power supply:	123 x 46 x 30 mm	122 x 41 x 26 mm
cut-out hole Ø:	110 - 120 mm	110 - 120 mm



## tempLED 20

## RayDown V2 20 - 100 CCT DALI

## RayDown V2 20 - 100 CCT Ra90 DALI

article number:	880114	880120
GTIN / EAN:	4262493351724	4262493351878
initial luminous flux at 3,000 K:	2,160 lm	1,940 lm
initial luminous flux at 4,000 K:	2,400 lm	2,160 lm
initial luminous flux at 5,000 K:	2,280 lm	2,040 lm
initial system efficiency at 3,000 K:	108 lm/W	97 lm/W
initial system efficiency at 4,000 K:	120 lm/W	108 lm/W
initial system efficiency at 5,000 K:	114 lm/W	102 lm/W
initial, most similar color temperature:	switchable between 3,000 / 4,000 / 5,000 K	switchable between 3,000 / 4,000 / 5,000 K
initial color rendering index:	Ra > 80	Ra > 90
light distribution:	symmetrical	symmetrical
beam angle:	100 degrees	100 degrees
dimming / control:	DALI-2	DALI-2
system performance:	20 W	20 W
power consumption:	0.09 A	0.09 A
maximum inrush current:	15 A	15 A
dimensions (Ø x H) luminaire:	134 x 52 mm	134 x 52 mm
dimensions (L x W x H) power supply:	122 x 41 x 26 mm	122 x 41 x 26 mm
cut-out hole Ø:	110 - 120 mm	110 - 120 mm



## tempLED 35

## RayDown V2 35 - 100 CCT

## RayDown V2 35 - 100 CCT Ra90

article number:	880115	880121
GTIN / EAN:	4262493351731	4262493351885
initial luminous flux at 3,000 K:	from 2,260 to 3,780 lm	from 2,037 to 3,395 lm
initial luminous flux at 4,000 K:	from 2,520 to 4,200 lm	from 2,268 to 3,780 lm
initial luminous flux at 5,000 K:	from 2,390 to 3,990 lm	from 2,142 to 3,570 lm
initial system efficiency at 3,000 K:	108 lm/W	97 lm/W
initial system efficiency at 4,000 K:	120 lm/W	108 lm/W
initial system efficiency at 5,000 K:	114 lm/W	102 lm/W
initial, most similar color temperature:	switchable between 3,000 / 4,000 / 5,000 K	switchable between 3,000 / 4,000 / 5,000 K
initial color rendering index:	Ra > 80	Ra > 90
light distribution:	symmetrical	symmetrical
beam angle:	100 degrees	100 degrees
dimming / control:	none	none
system performance:	switchable between 21 / 23 / 25 / 27 / 29 / 31 / 33 / 35 W	switchable between 21 / 23 / 25 / 27 / 29 / 31 / 33 / 35 W
power consumption:	up to 0.16 A	up to 0.16 A
maximum inrush current:	19.6 A	19.6 A
dimensions (Ø x H) luminaire:	188 x 52 mm	188 x 52 mm
dimensions (L x W x H) power supply:	210 x 46 x 30 mm	210 x 46 x 30 mm
cut-out hole Ø:	165 - 175 mm	165 - 175 mm



## tempLED 30

## RayDown V2 30 - 100 CCT DALI

## RayDown V2 30 - 100 CCT Ra90 DALI

article number:	880116	880122
GTIN / EAN:	4262493351748	4262493351892
initial luminous flux at 3,000 K:	3,240 lm	2,910 lm
initial luminous flux at 4,000 K:	3,600 lm	3,240 lm
initial luminous flux at 5,000 K:	3,420 lm	3,060 lm
initial system efficiency at 3,000 K:	108 lm/W	97 lm/W
initial system efficiency at 4,000 K:	120 lm/W	108 lm/W
initial system efficiency at 5,000 K:	114 lm/W	102 lm/W
initial, most similar color temperature:	switchable between 3,000 / 4,000 / 5,000 K	switchable between 3,000 / 4,000 / 5,000 K
initial color rendering index:	Ra > 80	Ra > 90
light distribution:	symmetrical	symmetrical
beam angle:	100 degrees	100 degrees
dimming / control:	DALI-2	DALI-2
system performance:	30 W	30 W
power consumption:	0.13 A	0.13 A
maximum inrush current:	25 A	25 A
dimensions (Ø x H) luminaire:	188 x 52 mm	188 x 52 mm
dimensions (L x W x H) power supply:	145 x 46 x 28 mm	145 x 46 x 28 mm
cut-out hole Ø:	165 - 175 mm	165 - 175 mm



## tempLED 40

## RayDown V2 40 - 100 CCT

## RayDown V2 40 - 100 CCT Ra90

article number:	880117	880123
GTIN / EAN:	4262493351755	4262493351908
initial luminous flux at 3,000 K:	from 2,260 to 4,320 lm	from 2,037 to 3,880 lm
initial luminous flux at 4,000 K:	from 2,520 to 4,800 lm	from 2,268 to 4,320 lm
initial luminous flux at 5,000 K:	from 2,390 to 4,560 lm	from 2,142 to 4,080 lm
initial system efficiency at 3,000 K:	108 lm/W	97 lm/W
initial system efficiency at 4,000 K:	120 lm/W	108 lm/W
initial system efficiency at 5,000 K:	114 lm/W	102 lm/W
initial, most similar color temperature:	switchable between 3,000 / 4,000 / 5,000 K	switchable between 3,000 / 4,000 / 5,000 K
initial color rendering index:	Ra > 80	Ra > 90
light distribution:	symmetrical	symmetrical
beam angle:	100 degrees	100 degrees
dimming / control:	none	none
system performance:	switchable between 21 / 23 / 25 / 27 / 29 / 31 / 33 / 35 / 37 / 40 W	switchable between 21 / 23 / 25 / 27 / 29 / 31 / 33 / 35 / 37 / 40 W
power consumption:	uo to 0.18 A	uo to 0.18 A
maximum inrush current:	19.6 A	19.6 A
dimensions (Ø x H) luminaire:	227 x 52 mm	227 x 52 mm
dimensions (L x W x H) power supply:	210 x 46 x 30 mm	145 x 46 x 28 mm
cut-out hole Ø:	195 - 208 mm	195 - 208 mm

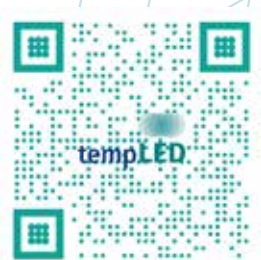


## tempLED 40

## RayDown V2 40 - 100 CCT DALI

## RayDown V2 40 - 100 CCT Ra90 DALI

article number:	880118	880124
GTIN / EAN:	4262493351762	4262493351915
initial luminous flux at 3,000 K:	4,320 lm	3,880 lm
initial luminous flux at 4,000 K:	4,800 lm	4,320 lm
initial luminous flux at 5,000 K:	4,560 lm	4,080 lm
initial system efficiency at 3,000 K:	108 lm/W	97 lm/W
initial system efficiency at 4,000 K:	120 lm/W	108 lm/W
initial system efficiency at 5,000 K:	114 lm/W	102 lm/W
initial, most similar color temperature:	switchable between 3,000 / 4,000 / 5,000 K	switchable between 3,000 / 4,000 / 5,000 K
initial color rendering index:	Ra > 80	Ra > 90
light distribution:	symmetrical	symmetrical
beam angle:	100 degrees	100 degrees
dimming / control:	DALI-2	DALI-2
system performance:	40 W	40 W
power consumption:	0.18 A	0.18 A
maximum inrush current:	25 A	25 A
dimensions (Ø x H) luminaire:	227 x 52 mm	227 x 52 mm
dimensions (L x W x H) power supply:	145 x 46 x 28 mm	145 x 46 x 28 mm
cut-out hole Ø:	195 - 208 mm	195 - 208 mm



Direct link to the tempLED  
download portal



LED is sustainable.  
LED is the future.

tempLED luminaires fulfil a recycling rate of > 90%.  
That is our product promise to you.

When will you start?