# **PHILIPS** Lighting



# PowerBalance gen2

# RC461B G2 LED34S/840 PSD W60L60 PCV W

PowerBalance recessed, Generation 2, LED module, system flux 3400 lm, 840 neutral white, Power supply unit with DALI interface, Plug-in connector 3-pole Wieland/Adels compatible

When it comes to lighting an office space with LED luminaires, people are usually willing to invest in sustainability provided the investment pays back. At the same time, the system should comply with office lighting norms to ensure a comfortable working environment. PowerBalance gen2 is Philips' most energy-efficient office-norm-compliant LED luminaire. It more than halves energy costs compared to a T5 solution, and the light source has a longer lifetime. This results in significantly lower operational costs, ensuring a payback that meets the needs of the specification market. The gen2 architecture enables a range of highly versatile modular and semi-modular luminaires. These luminaires can be easily mounted in ceilings with exposed T-bar and concealed T-bar, as well as plaster ceilingstypes.

#### Warnings and Safety

- The product is IP20 and as such is not protected against water ingress, so we strongly recommend that the environment in which the luminaire is to be installed is suitably checked
- If the above advice is not taken and the luminaires are subject to water ingress, Philips/Signify cannot guarantee safe use and the product warranty will become void

#### **Product data**

General Information		Driver included	Yes
Lamp family code	LED34S [LED module, system flux 3400 lm]	Remarks	*- According to the Lighting Europe guidance
Cap base	- [-]		paper 'Evaluating performance of LED based
Light source replaceable	No		luminaires – January 2018': statistically there
Number of gear units	Unit		is no relevant difference in lumen
Gear	-		maintenance between the B50 and, for

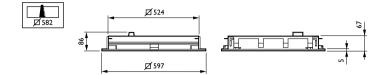
### PowerBalance gen2

	example, the B10. Therefore, the median
	useful life (B50) value also represents the
	B10 value.
Product family code	RC461B [PowerBalance recessed]
Lighting Technology	LED
Value ladder	Specification
Embedded control	-
CE mark	Yes
Warranty period	5 years
Flammability mark	For mounting on normally flammable
	surfaces
ENEC mark	ENEC plus mark
Glow-wire test	Temperature 850 °C, duration 5 s
EU RoHS compliant	Yes
Light Technical	
Luminous Flux	3,400 lm
Correlated Colour Temperature	4000 K
Luminous efficacy (rated) (nom.)	142 lm/W
Colour rendering index (CRI)	≥80
Light source colour	840 neutral white
Optic type	-
Optical cover type	Polycarbonate bowl/cover
Luminaire light beam spread	86°
Unified Glare Rating (CEN)	16
Operating and Electrical	
Input Voltage	220-240 V
Line Frequency	50 to 60 Hz
Inrush current	5 A
Inrush time	1 ms
Power Consumption	24 W
Power Factor (Fraction)	0.9
Connection	Plug-in connector 3-pole Wieland/Adels
	compatible
Cable	-
Number of products on MCB of 16 A type	20
В	
Temperature	
Ambient temperature range	+10 to +40 °C
Controls and Dimming	
Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface
- · · · · · · ·	DALI
Control interface	

Mechanical and Housing				
Housing material	Steel			
Reflector material	Polycarbonate			
Optic material	-			
Optical cover/lens material	Polycarbonate			
Fixation material	-			
Housing Colour	White RAL 9003			
Optical cover/lens finish	Matte			
Overall length	597 mm			
Overall width	597 mm			
Overall height	86 mm			
Dimensions (height x width x depth)	86 x 597 x 597 mm			
Approval and Application				
Ingress protection code	IP20 [Finger-protected]			
Mech. impact protection code	IK02 [0.2 J standard]			
Protection class IEC	Safety class I			
Initial Performance (IEC Compliant)				
Luminous flux tolerance	+/-10%			
Initial chromaticity	(0.38, 0.38) SDCM <3			
Power consumption tolerance	+/-10%			
Over Time Performance (IEC Compliant)				
Control gear failure rate at median useful	5 %			
life 50,000 h				
Lumen maintenance at median useful	L90			
life* 50,000 h				
Application Conditions				
Performance ambient temperature Tq	25 ℃			
Maximum dim level	1%			
Suitable for random switching	No			
Product Data				
Order product name	RC461B G2 LED34S/840 PSD W60L60 PCV			
	W			
Full product name	RC461B G2 LED34S/840 PSD W60L60 PCV			
	W			
Full EOC	871829126512200			
Order code	26512200			
Material no. (12 NC)	910502005603			
SAP numerator – quantity per pack	1			
FAN/LIPC - Product/Case	8718291265122			
EAN/UPC — Product/Case				
Numerator – packs per outer box	1			

## PowerBalance gen2

#### Dimensional drawing





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