# **PHILIPS** Lighting



# PowerBalance gen2

# RC461B G2 LED40S/840 PSD W60L60 PCV PIP

PowerBalance recessed, Generation 2, LED module, system flux 4000 lm, 840 neutral white, Power supply unit with DALI interface, Push-in connector and pull relief

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 ceilings and bandraster-type ceilings. PowerBalance is also available in a surface-mounted version.

#### Warnings and Safety

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

#### **Product data**

General Information		Gear
Lamp family code	LED40S [LED module, system flux 4000 lm]	Driver inc
Cap-Base	- [-]	Remarks
Light source replaceable	No	
Number of gear units	1 unit	

Gear	-
Driver included	Yes
Remarks	*-Per Lighting Europe guidance paper
	"Evaluating performance of LED based
	luminaires - January 2018": statistically there

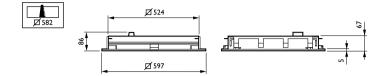
### PowerBalance gen2

	is no relevant difference in lumen
	maintenance between B50 and for example
	B10. Therefore, the median useful life (B50)
	value also represents the B10 value.
Service tag	Yes
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	4,000 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	140 lm/W
Color rendering index (CRI)	≥80
Number of light sources	1
Light source color	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	28.5 W
Power Factor (Fraction)	0.9
Connection	Push-in connector and pull relief
Cable	-
Number of products on MCB of 16 A type	20
В	
Temperature	
Ambient temperature range	+10 to +40 °C
Controls and Dimming	
	Voc
Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface
Control interface Constant light output	DALI
	No

Mechanical and Housing	
Housing Material	Steel
Reflector material	Polycarbonate
Optic material	-
Optical cover material	Polycarbonate
Fixation material	-
Housing Color	White RAL 9003
Optical cover 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 Compli	ant)
Over Time Performance (IEC Compli Control gear failure rate at median useful	
Control gear failure rate at median useful	5%
Control gear failure rate at median useful life 50000 h	5%
Control gear failure rate at median useful life 50000 h Lumen maintenance at median useful life*	5%
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Control gear failure rate at median useful life 50000 h Lumen maintenance at median useful life* 50000 h	5%
Control gear failure rate at median useful life 50000 h Lumen maintenance at median useful life* 50000 h Application Conditions	5 % L90
Control gear failure rate at median useful life 50000 h Lumen maintenance at median useful life* 50000 h Application Conditions Performance ambient temperature Tq	5 % L90 25 °C
Control gear failure rate at median useful life 50000 h Lumen maintenance at median useful life* 50000 h Application Conditions Performance ambient temperature Tq Maximum dim level	5 % L90 25 °C 1%
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Control gear failure rate at median useful life 50000 h Lumen maintenance at median useful life* 50000 h Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching	5 % L90 25 °C 1%
Control gear failure rate at median useful life 50000 h Lumen maintenance at median useful life* 50000 h Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data	5 % L90 25 °C 1% No
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## PowerBalance gen2

#### Dimensional drawing





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