# **PHILIPS** Lighting



# PowerBalance gen2

# RC461B G2 LED34S/840 POE W30L120 VPC ACL

PowerBalance gen2, 24.5 W, 3400 lm, 4000 K, Power over Ethernet

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		Remarks	*-Per Lighting Europe guidance paper
Lamp family code	LED34S [LED module, system flux 3400 lm]		"Evaluating performance of LED based
Cap-Base	- [-]		luminaires - January 2018": statistically there
Light source replaceable	No		is no relevant difference in lumen
Number of gear units	1 unit		maintenance between B50 and for example
Gear	-		B10. Therefore, the median useful life (B50)
Driver included	Yes		value also represents the B10 value.

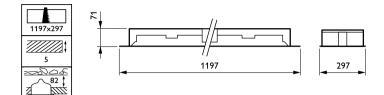
### PowerBalance gen2

Yes
RC461B [PowerBalance recessed]
LED
Specification
ActiLume
Yes
5 years
For mounting on normally flammable
surfaces
ENEC plus mark
Temperature 850 °C, duration 5 s
Yes
3,400 lm
4000 K
139 lm/W
≥80
1
840 neutral white
-
Polycarbonate bowl/cover
86°
16
51 to 54 V
- Hz
5 A
1 ms
24.5 W
RJ45 connector, male
-
20
10 to 10 %
+10 to +40 °C
Yes
Yes
Luminaire controller with power over
Luminaire controller with power over Ethernet
Luminaire controller with power over Ethernet Power over Ethernet
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Reflector material	Polycarbonate
Optic material	-
Optical cover material	Polycarbonate
Fixation material	-
Housing Color	White RAL 9003
Optical cover finish	Matte
Overall length	1,197 mm
Overall width	297 mm
Overall height	79 mm
Dimensions (Height x Width x Depth)	79 x 297 x 1197 mm
Approval and Application	
Ingress protection code	IP20 [Finger-protected]
Mech. impact protection code	IK02 [0.2 J standard]
Protection class IEC	Safety class III
Initial Performance (IEC Compliant	:)
Luminous flux tolerance	+/-10%
	(0.38, 0.38) SDCM <3
Initial chromaticity	
Initial chromaticity Power consumption tolerance Over Time Performance (IEC Comp Control gear failure rate at median usefu life 50000 h	-
Power consumption tolerance Over Time Performance (IEC Comp Control gear failure rate at median usefu	liant)
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Power consumption tolerance Over Time Performance (IEC Comp 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	liant) ↓ 5 % L90 25 °C 1%
Power consumption tolerance Over Time Performance (IEC Comp 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	liant) ↓ 5 % L90 25 °C 1% Yes
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## PowerBalance gen2

#### Dimensional drawing





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