

# PowerBalance gen2

## RC461B LED80S/TW9 DIA W30L120 VPC PIP

PowerBalance recessed - Tunable 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 bandraaster-type ceilings. PowerBalance is also available in a surface-mounted version.

### Warnings and Safety

- The product is IPX0 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			
Beam angle of light source	120 °	Driver included	Yes
Light source colour	Tunable white	Optic type	No [ - ]
Light source replaceable	No	Luminaire light beam spread	86°
Number of gear units	1 unit	Control interface	DALI
Driver/power unit/transformer	PSD [ Power supply unit with DALI interface]	Connection	PIP [ Push-in connector and pull relief]
		Cable	-
		Protection class IEC	Safety class I (I)

## PowerBalance gen2

Glow-wire test	650/30 [ Temperature 650 °C, duration 30 s]
Flammability mark	F [ For mounting on normally flammable surfaces]
CE mark	CE mark
ENEC mark	ENEC mark
Warranty period	5 years
Constant light output	No
Number of products on MCB (16 A type B)	16
Photobiological risk	Photobiological risk group 1 @ 200mm to EN62471
EU RoHS compliant	Yes
Product family code	RC461B [ PowerBalance recessed]
Unified glare rating CEN	19

### Light Technical

Saturated Red	>50
Flickering	1
Stroboscopic effect	0.4

### Operating and Electrical

Input Voltage	220 to 240 V
Input frequency	50 to 60 Hz
Initial CLO power consumption	- W
Average CLO power consumption	- W
Inrush current	29.6 A
Inrush time	0.356 ms
Power factor (min.)	0.9

### Controls and Dimming

Dimmable	Yes
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### Mechanical and Housing

Housing material	Steel
Reflector material	Polycarbonate
Optic material	-
Optical cover/lens material	Polycarbonate
Fixation material	-
Optical cover/lens finish	Matte
Overall length	1197 mm
Overall width	297 mm
Overall height	79 mm
Colour	White RAL 9003
Dimensions (height x width x depth)	79 x 297 x 1197 mm (3.1 x 11.7 x 47.1 in)

### Approval and Application

Ingress protection code	IP20 (front IP40)
Mech. impact protection code	IK02 [ 0.2 J standard]

### Initial Performance (IEC Compliant)

Initial luminous flux (system flux)	7700 lm
Luminous flux tolerance	+/-10%
Initial LED luminaire efficacy	128 lm/W
Init. Corr. Colour Temperature	- K
Init. Colour rendering index	>90
Initial chromaticity	(0.38, 0.38) SDCM <3
Initial input power	60 W
Power consumption tolerance	+/-10%

### Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 50,000 h	5 %
Lumen maintenance at median useful life* 35,000 h	-
Lumen maintenance at median useful life* 50,000 h	L90
Lumen maintenance at median useful life* 75,000 h	-
Lumen maintenance at median useful life* 100,000 h	-

### Application Conditions

Ambient temperature range	+10 to +40 °C
Performance ambient temperature Tq	25 °C
Maximum dimming level	1%
Suitable for random switching	No

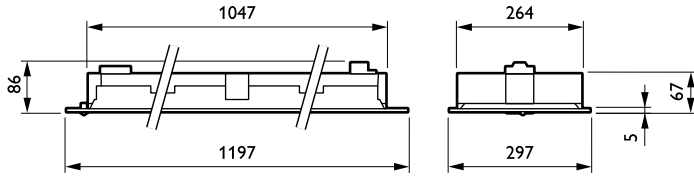
### Product Data

Full product code	871869997986700
Order product name	RC461B LED80S/TW9 DIA W30L120 VPC PIP
EAN/UPC – product	8718699979867
Order code	97986700
SAP numerator – quantity per pack	1
Numerator – packs per outer box	1
SAP material	910505101666
SAP net weight (piece)	4.700 kg



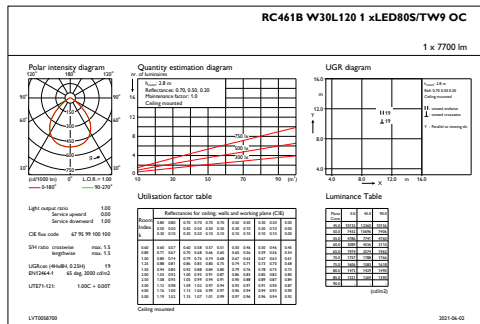
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## Dimensional drawing

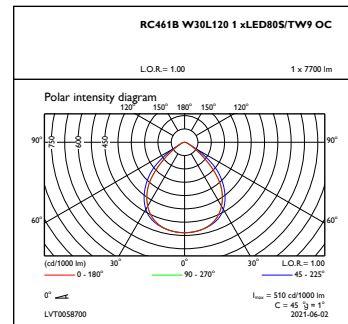


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## Photometric data



IFGU1\_RC461BW30L1201xLED80STW9OC



OFPC1\_RC461BW30L1201xLED80STW9OC

