

# PowerBalance gen2

## RC463B G2 LED34S/840 POE W31L125 VPC ACL

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

When it comes to lighting office spaces with LED luminaires, businesses are willing to invest in sustainability, provided they get a payback on their investment. At the same time, the system should comply with office lighting norms to ensure a comfortable working environment. Philips PowerBalance Gen2 is our most energyefficient, office-compliant LED luminaire. Designed for circularity and enhanced wellbeing, this office luminaire also promises future-proof connectivity. State-ofthe-art efficacy (at CRI <gt/>90), upgradability features, a long lifetime, repairability, and design for recyclability make PowerBalance Gen2 a true 'green choice'. One that also delivers significantly lower operational costs to ensure an attractive payback that meets the needs of businesses and the specification market. The Gen2 architecture in the latest PowerBalance range has enabled us to create a range of highly-versatile modular and semi-modular luminaires. These LED luminaires can be easily mounted in ceilings with an exposed T-bar or concealed T-bar, as well as plaster ceilings and bandraster-type ceilings. PowerBalance is a solution with superior lighting specifications combined with a best-in-class connectivity designed for Circularity & enhanced Wellbeing using Interact Pro - all with a sustainable approach to high-performance office lighting.

#### **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**

Datasheet, 2023, December 4 data subject to change

## PowerBalance gen2

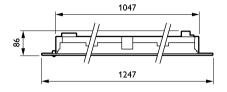
Commonstant	Company I Information		T	
Controls and Dimming	General Information		Temperature	
			Ambient temperature range	+10 to +40 °C
Number of grar units	<del></del>		Controls and Binaria	
Driver Included				
Bother included         Yes         Chindring Cursoe guidance paper         Control interface         Chord interface         Ch				
Control Inferface			Driver/power unit/transformer	
Part		<del>.</del>		
Marchanical and Housing	Remarks			
No. 10   Mechanical and Mousing   Mechanical and Mousing			Constant light output	No
Product family   Prod				
Potential Enteringment   Potential Enteringm			Mechanical and Housing	
Product family code			Housing Material	
Service tag			Reflector material	Polycarbonate
Product family code			Optic material	<u>-</u>
Lighting Technology			Optical cover material	Polycarbonate
Value ladder Specification Optical cover finish Matte Cembed de control Actitume Optical cover finish Matte Cembed de control Actitume Overall length 1,247 mm Overall length 1,247 mm Overall length 79 mm Overall length			Fixation material	-
Embedded control Actitume Overall tength 1,247 mm Overall width 310 mm Warranty period 5 years  Flammability mark For mounting on normally flammable surfaces ENEC mark ENEC plus mark Glow-wrire test Temperature 850 °C, duration 5 s EU RoHS compliant Yes  EU RoHS compliant Yes  Light Technical  Luminous Flix 3,400 im  Correlated Color Temperature (Nom) 4000 K Luminous Flix (yetaed) (Nom) 139 im/W  Color rendering index (CRI) 280  Number of light sources 1  Coptical cover type Polycarbonate bowl/cover  Luminarie flight beam spread 86°  Luminarie			Housing Color	White RAL 9003
Commark		<u> </u>	Optical cover finish	Matte
Warranty period 5 years Overall height 79 mm Flammability mark For mounting on normally flammable surfaces  ENEC mark ECP plus mark Glow-wire test Temperature 850 °C, duration 5 s EU ROST compliant Yes  EU ROST compliant Yes  Light Technical  Light Technical  Luminous Flux 3,400 im Luminous Flux 3,400 im Luminous Flux 3,400 im Luminous Flux 6,000 im Luminous Flux 7,000 im Luminous Flux 6,000 im Luminous Flux 6			Overall length	1,247 mm
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  Mech. impact protection code   IP20 [Finger-protected]    Mech. impact protection code   IR02 [O 2 J standard]    Protection class IEC   Safety class III    Light Technical  Luminous Flux   3,400 lm    Luminous Flux   3,400 lm    Luminous Flux   3,400 lm    Luminous Flix (reted) (Nom)   39 lm/vW    Luminous Efficacy (rated) (Nom)   39 lm/vW    Initial Performance (IEC Compliant)    Luminous flix tolerance   1/-10%    Luminous flix source color   840 neutral white    Operating index (CRI)   860    Optical cover type   Polycarbonate bowl/cover    Luminaler light beam spread   86°    Unified glare rating CEN   16    Operating and Electrical    Input Voltage   51 to 54 V    Inrush current   5 A    Safety class III    Operating and Electrical    Input Voltage   51 to 54 V    Inrush current   5 A    Safety class III    Protection class IEC   Safety class III    Operating and Electrical    Input Voltage   51 to 54 V    Inrush current   5 A    Safety class III    Protection class IEC    Safety class III    North cla		Yes	Overall width	310 mm
ENEC mark ENEC plus mark Glow-wire test Temperature 850 °C, duration 5 s EINEO mark EINE On Mech. Impact protection code IP20 [Finger-protected] Ingress protection code IP20 [Finger-protected] Ingress protection code IP20 [Finger-protected] Mech. Impact protection code IP20 [Finger-protected] Mec		<del>`</del>	Overall height	79 mm
Approval and Application   Ingress protection code   IP20 [Finger-protected]   Ingress protection code   IP20 [Finger-protected]   Ingress protection code   IP20 [Finger-protected]   Ingress protection code   IR20 [Finger-protected]   Ingress protection code   IR20 [Finger-protected]   Ingress protection code   IR20 [Finger-protected]   IR20 [Finger-pr	Flammability mark		Dimensions (Height x Width x Depth)	79 x 310 x 1247 mm
September   Sep		surfaces		
Mech. Impact protection code   MCQ [Q 2 J standard]	ENEC mark	ENEC plus mark	Approval and Application	
Light Technical  Luminous Flux 3,400 Im  Correlated Color Temperature (Nom) 4000 K  Luminous Efficacy (rated) (Nom) 139 Im/W  Color rendering index (CRI) 280 Power consumption tolerance +/-10%  Light source color 840 neutral white Optic type - Optic cloever type Polycarbonate bowl/cover  Luminaire light beam spread 86°  Luminaire light beam spread 86°  Unified glare rating CEN 16  Input Voltage 51 to 54 V  Dine Frequency - Hz  Inrush current 5 A  Inrush filme 1 ms  Power Consumption 245 W  Connection RJ45 connector, male  Cable - Number of groducts on MCB of 16 A type 20  Order code 910502045403  Initial Performance (IEC Compliant)  Luminous Flux bearance (IEC Compliant)  Luminous Flux tolerance +/-10%  Initial Performance (IEC Compliant)  Control gear failure rate at median useful 5%  Ilife 50000 h  Lumen maintenance at median useful L90  Life* 50000 h  Application Conditions  Performance ambient temperature Tq 25 °C  Maximum dim level 1%  Suitable for random switching Yes  Product Data  Order product name RC463B G2 LED345/840 POE W31L125 VPC  B   Full product code 871869687579700  Order code 910502045403	Glow-wire test	Temperature 850 °C, duration 5 s	Ingress protection code	IP20 [Finger-protected]
Light Technical  Luminous Flux 3.400 lm  Correlated Color Temperature (Nom) 4000 K  Luminous Efficacy (rated) (Nom) 139 lm/W  Number of light sources 1  Light source color 840 neutral white Optic type - Optical cover type Polycarbonate bowl/cover Luminate light beam spread 86°  Unified glare rating CEN 16  Operating and Electrical Input Voltage 51 to 54 V  Line Frequency - Hz  Inrush current 5 A  Inrush time 1 ms  Power Consumption 24.5 W  Connection RJ45 connector, male Cable —  Number of products on MCB of 16 A type D  ACL  Full product code 910502045403  Input Volcage 871869687579700  Order code 910502045403	EU RoHS compliant	Yes	Mech. impact protection code	IK02 [0.2 J standard]
Luminous Flux 3,400 lm  Correlated Color Temperature (Nom) 4000 k  Luminous Efficacy (rated) (Nom) 139 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  Input Voltage 51 to 54 ∨  Line Frequency - Hz  Inrush time 1 ms  Power Consumption 24.5 W  Connection RJ45 connector, male  Connection RJ45 connector, male  Connection MCB of 16 A type D  B Uminaire Inght render in the products on MCB of 16 A type D  B Uminaire Inght render in the product so m MCB of 16 A type D  B Uminaire Inght render in the product so m MCB of 16 A type D  B Uminaire Inght render in the product code Sintenger in the product code Sinte			Protection class IEC	Safety class III
Correlated Color Temperature (Nom) 4000 K Luminous Efficacy (rated) (Nom) 139 Im/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  Input Voltage 51 to 54 V  Input Voltage 54 5W  Inrush current 5 A  Inrush time 1 ms  Power Consumption 24 5 W  Number of products on MCB of 16 A type 20  B   Luminous flux tolerance +/-10%  Initial chromaticity (0.38, 0.38) SDCM <3  Power consumption tolerance +/-10%  Over Time Performance (IEC Compliant)  Over Time Performance (IEC Compliant)  Control gear failure rate at median useful 5 %  Lumen maintenance at median useful L90  Lumen maintenance at median useful L90  Life* 50000 h  Application Conditions  Performance ambient temperature Tq 25 °C  Maximum dim level 19%  Suitable for random switching Yes  Product Data  Order product name RC463B G2 LED34S/840 POE W31L125 VPC  B   Full product name RC463B G2 LED34S/840 POE W31L125 VPC  ACL  Full product code 910502045403	Light Technical			
Luminous Efficacy (rated) (Nom) 139 Im/W Initial chromaticity (0.38, 0.38) SDCM <3  Color rendering index (CRI) ≥80 Power consumption tolerance +/-10%  Number of light sources 1  Light source color 840 neutral white Optic type - Control gear failure rate at median useful 5 %  Optical cover type Polycarbonate bowl/cover life 50000 h  Luminaire light beam spread 86° Lumen maintenance at median useful L90  Unified glare rating CEN 16 life* 50000 h  Operating and Electrical Input Voltage 51 to 54 V Performance ambient temperature Tq 25 °C  Line Frequency - Hz Maximum dim level 1%  Inrush current 5 A Suitable for random switching Yes  Product Data  Connection RJ45 connector, male Order products on MCB of 16 A type 20  B CHIP Product code 871869687579700  Order code 910502045403	Luminous Flux	3,400 lm	Initial Performance (IEC Compliant)	
Color rendering index (CRI) \$280  Number of light sources 1  Light source color 840 neutral white Optic type - Optical cover type Polycarbonate bowl/cover luminaire light beam spread 86° Lumen maintenance at median useful 15% Operating and Electrical Input Voltage 51 to 54 V Performance and including the performance and including the performance and including the performance and including the performance at median useful 16% Operating and Electrical Input Voltage 51 to 54 V Performance ambient temperature Tq 25 °C Inrush time 1 ms  Power Consumption 24.5 W Product Data  Order product name R245 So Condector, male Order product name RC463B G2 LED345/840 POE W31L125 VPC B Full product code 910502045403	Correlated Color Temperature (Nom)	4000 K	Luminous flux tolerance	+/-10%
Number of light sources 1  Light source color 840 neutral white Over Time Performance (IEC Compliant)  Optic type - Control gear failure rate at median useful 5%  Optical cover type Polycarbonate bowl/cover life 50000 h  Luminaire light beam spread 86°  Unified glare rating CEN 16  Operating and Electrical Input Voltage 51 to 54 V Performance ambient temperature Tq 25 °C  Line Frequency - Hz Maximum dim level 1%  Inrush current 5 A Suitable for random switching Yes  Inrush turne 1 ms  Power Consumption 24.5 W Product Data  Connection RJ45 connector, male Order products on MCB of 16 A type 8  B In Industrian RC463B G2 LED34S/840 POE W31L125 VPC ACL  Full product name RC463B G2 LED34S/840 POE W31L125 VPC ACL  Full product code 910502045403	Luminous Efficacy (rated) (Nom)	139 lm/W	Initial chromaticity	(0.38, 0.38) SDCM <3
Light source color  840 neutral white  Optic type  - Optical cover type  Polycarbonate bowl/cover Luminaire light beam spread 86° Lumen maintenance at median useful life° 50000 h  Lumen maintenance at median useful life° 50000 h  Coperating and Electrical Input Voltage 51 to 54 V Inrush current 5 A Inrush current 5 A Inrush time 1 ms  Power Consumption 24.5 W  Connection R J45 connector, male  Connection R J45 connector, male  Order product name R C463B G2 LED34S/840 POE W31L125 VPC ACL Full product code 871869687579700 Order code 910502045403	Color rendering index (CRI)	≥80	Power consumption tolerance	+/-10%
Optical cover type Polycarbonate bowl/cover  Luminaire light beam spread 86°  Unified glare rating CEN 16  Operating and Electrical Input Voltage 51 to 54 V Inrush current 5 A Inrush time 1 ms  Power Consumption 24.5 W  Connection RJ45 connector, male  Connection RJ45 connector, male  Connection RJ45 connector, male  Number of products on MCB of 16 A type B B  Full product name S786 (SE Day S7879700)  Full product code 910502045403	Number of light sources	1		
Detail cover type	Light source color	840 neutral white	Over Time Performance (IEC Compl	iant)
Luminaire light beam spread 86°  Unified glare rating CEN 16  Application Conditions  Performance ambient temperature Tq 25 °C  Maximum dim level 1%  Suitable for random switching Yes  Unified glare rating CEN 16  Maximum dim level 1%  Suitable for random switching Yes  Product Data  Order product Data  Order product name RC463B G2 LED34S/840 POE W31L125 VPC ACL  Full product name RC463B G2 LED34S/840 POE W31L125 VPC ACL  Full product code 871869687579700  Order code 910502045403	Optic type		Control gear failure rate at median useful	5 %
Unified glare rating CEN 16  Application Conditions  Performance ambient temperature Tq 25 °C  Maximum dim level 1%  Suitable for random switching Yes  Unified glare rating CEN 16  Waximum dim level 1%  Suitable for random switching Yes  Unified glare rating CEN 16  Waximum dim level 1%  Suitable for random switching Yes  Unified glare rating CEN 18  Explain Conditions  Performance ambient temperature Tq 25 °C  Maximum dim level 1%  Suitable for random switching Yes  Unified glare rating CEN 18  Waximum dim level 1%  Suitable for random switching Yes  Unified glare rating CEN 18  Explain Conditions  Performance ambient temperature Tq 25 °C  Maximum dim level 1%  Suitable for random switching Yes  Unified glare rating CEN 25 °C  Maximum dim level 1%  Suitable for random switching Yes  Unified glare rating CEN 25 °C  Maximum dim level 1%  Suitable for random switching Yes  Unified glare rating CEN 25 °C  Maximum dim level 1%  Suitable for random switching Yes  Unified glare rating CEN 25 °C  Maximum dim level 1%  Suitable for random switching Yes  Unified glare rating CEN 25 °C  Maximum dim level 1%  Suitable for random switching Yes  Unified glare rating CEN 25 °C  Maximum dim level 1%  Suitable for random switching Yes  Unified glare rating CEN 25 °C  Maximum dim level	Optical cover type	Polycarbonate bowl/cover	life 50000 h	
Operating and Electrical Input Voltage 51 to 54 V Eine Frequency - Hz Inrush current 5 A Suitable for random switching Yes Inrush time 1 ms Power Consumption 24.5 W Connection RJ45 connector, male Cable - Number of products on MCB of 16 A type 20 Full product name RC463B G2 LED34S/840 POE W31L125 VPC B Full product name RC463B G2 LED34S/840 POE W31L125 VPC Full product name RC463B G2 LED34S/840 POE W31L125 VPC ACL Full product code 910502045403	Luminaire light beam spread	86°	Lumen maintenance at median useful	L90
Input Voltage 51 to 54 V Performance ambient temperature Tq 25 °C  Line Frequency - Hz Maximum dim level 1%  Inrush current 5 A Suitable for random switching Yes  Inrush time 1 ms  Power Consumption 24.5 W Product Data  Connection RJ45 connector, male Order product name RC463B G2 LED34S/840 POE W31L125 VPC  Cable - ACL  Number of products on MCB of 16 A type 20 Full product name RC463B G2 LED34S/840 POE W31L125 VPC  B Full product code 871869687579700  Order code 910502045403	Unified glare rating CEN	16	life* 50000 h	
Input Voltage 51 to 54 V Performance ambient temperature Tq 25 °C  Line Frequency - Hz Maximum dim level 1%  Inrush current 5 A Suitable for random switching Yes  Inrush time 1 ms  Power Consumption 24.5 W Product Data  Connection RJ45 connector, male Order product name RC463B G2 LED34S/840 POE W31L125 VPC  Cable - ACL  Number of products on MCB of 16 A type 20 Full product name RC463B G2 LED34S/840 POE W31L125 VPC  B Full product code 871869687579700  Order code 910502045403				
Line Frequency - Hz Maximum dim level 1%  Inrush current 5 A Suitable for random switching Yes  Inrush time 1 ms  Power Consumption 24.5 W Product Data  Connection RJ45 connector, male Order product name RC463B G2 LED34S/840 POE W31L125 VPC ACL  Number of products on MCB of 16 A type B  B  Full product name RC463B G2 LED34S/840 POE W31L125 VPC ACL  Full product code 871869687579700  Order code 910502045403	Operating and Electrical		Application Conditions	
Inrush current 5 A  Inrush time 1 ms  Power Consumption 24.5 W  Connection RJ45 connector, male Order product name RC463B G2 LED34S/840 POE W31L125 VPC  ACL  Number of products on MCB of 16 A type B  B  Full product name RC463B G2 LED34S/840 POE W31L125 VPC  ACL  Full product name RC463B G2 LED34S/840 POE W31L125 VPC  ACL  Full product code 871869687579700  Order code 910502045403	Input Voltage	51 to 54 V	Performance ambient temperature Tq	25 ℃
Inrush time	Line Frequency	- Hz	Maximum dim level	1%
Power Consumption         24.5 W         Product Data           Connection         RJ45 connector, male         Order product name         RC463B G2 LED34S/840 POE W31L125 VPC           Cable         -         ACL           Number of products on MCB of 16 A type         20         Full product name         RC463B G2 LED34S/840 POE W31L125 VPC           B         ACL           Full product code         871869687579700           Order code         910502045403	Inrush current	5 A	Suitable for random switching	Yes
Connection         RJ45 connector, male         Order product name         RC463B G2 LED34S/840 POE W31L125 VPC           Cable         ACL           Number of products on MCB of 16 A type         20         Full product name         RC463B G2 LED34S/840 POE W31L125 VPC           B         ACL           Full product code         871869687579700           Order code         910502045403	Inrush time	1 ms		
Cable         ACL           Number of products on MCB of 16 A type         20         Full product name         RC463B G2 LED34S/840 POE W31L125 VPC ACL           B         Full product code         871869687579700           Order code         910502045403	Power Consumption	24.5 W	Product Data	
Number of products on MCB of 16 A type         20         Full product name         RC463B G2 LED34S/840 POE W31L125 VPC           B         ACL           Full product code         871869687579700           Order code         910502045403	Connection	RJ45 connector, male	Order product name	RC463B G2 LED34S/840 POE W31L125 VPC
B         ACL           Full product code         871869687579700           Order code         910502045403	Cable	-		ACL
B         ACL           Full product code         871869687579700           Order code         910502045403	Number of products on MCB of 16 A type	20	Full product name	RC463B G2 LED34S/840 POE W31L125 VPC
<b>Order code</b> 910502045403	В			
			Full product code	871869687579700
			Order code	910502045403
			Material Nr. (12NC)	

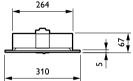
## PowerBalance gen2

Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718696875797
Numerator - Packs per outer box	1

EAN/UPC - Case	8718696875797
LAN, OF C - Case	0/100300/3/3/

### Dimensional drawing







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