

Philips GreenPower LED Lighting for Horticulture

North America | January 2021



Philips GreenPower LED Toplighting Linear 2.1

Length	1.26 m · 49.8 in	L90	36,000 hrs	Ambient operating temp	0° C Min. · 40° C Max
Width	5.5 cm · 2.2 in	L70	50,000 hrs		40° F Min. · 104° F Max
Height	8.0 cm · 3.2 in	Warranty	5 year limited	Frequency	50/60 Hz
Weight	3.2 kg · 7.1 lb	UL/CSA rated	Damp/wet	Power factor	> 0.95
Input voltage	200V – 400V	IP rating	IP66	Total harmonic distortion	< 15%
Beam angle	120°				

Philips LED Toplighting Linear 2.1 Regular Output (RO)

Description	12nc	Power (W)	Amps 208V	Amps 240V	Amps 277V	Amps 347V	Photon Flux $\mu\text{mol/s}$	Efficacy $\mu\text{mol/J}$
GPL toplight_2.1 DR/B LB 200-400V RO	9290 016 59206	175	0.84	0.73	0.63	0.50	550	3.1
GPL toplight_2.1 DR/B MB 200-400V RO	9290 016 59306	180	0.87	0.75	0.65	0.52	550	3.1
GPL toplight_2.1 DR/B HB 200-400V RO	9290 016 59406	175	0.84	0.73	0.63	0.50	520	3.0
GPL toplight_2.1 DR/W LB 200-400V RO	9290 016 59506	170	0.82	0.71	0.61	0.49	520	3.1
GPL toplight_2.1 DR/W MB 200-400V RO	9290 016 59606	175	0.84	0.73	0.63	0.50	520	3.0
GPL toplight_2.1 DR/W HB 200-400V RO	9290 016 59706	180	0.87	0.75	0.65	0.52	520	2.9
GPL toplight_2.1 DR/W/FR_2MB 200-400V RO	9290 016 59806	190	0.91	0.79	0.69	0.55	500	2.6

Philips LED Toplighting Linear 2.1 High Output

Toplighting Linear 2.1 High Output	12 NC	Power (W)	Amps 277V	Amps 347V	Photon Flux $\mu\text{mol/s}$	Efficacy $\mu\text{mol/J}$
GPL toplight_2.1 DR/B LB 277-400V HO	9290 016 60006	265	0.96	0.76	800	3.0
GPL toplight_2.1 DR/W LB 277-400V HO	9290 016 58706	275	0.99	0.79	800	2.9
GPL toplight_2.1 DR/W MB 277-400V HO	9290 016 58806	285	1.03	0.82	800	2.8
GPL toplight_2.1 DRW VSN2 277-400V HO	9290 021 00143	265	0.96	0.76	630	2.4

* Specifications for Toplighting High Output are same specs as Toplighting Regular Output **except** Toplighting High Output has input voltage of 277V-400V

Philips LED Toplighting Linear 2.1 Dimmable

Toplighting Linear Dimmable requires Philips GrowWise Control Systems (GWCS)

Description	12nc	Power (W)	Photon Flux $\mu\text{mol/s}$	Efficacy $\mu\text{mol/J}$
GPL toplight_2.1 CMD DR/B LB 277-400V	929 001 658906	25-265	80-800	3.0
GPL toplight_2.1 CMD DR/W LB 277-400V	9290 016 59006	26-275	80-800	2.9
GPL toplight_2.1 CMD DR/W MB 277-400V	9290 016 59106	27-285	80-800	2.8

Toplighting Linear Accessories	12 NC
TL Mounting Bracket (C-profile)	9290 015 08106
TL Mounting Bracket TRE 50 (Trellis 50 mm)	9290 016 79306
TL Mounting Bracket TRE 60 (Trellis 60 mm)	9290 016 79406
TL Jumper Cable (2.0 m / 6.6 ft)	9290 015 08206
TL Jumper Cable (1.0 m / 3.3 ft)	9290 015 55806
TL Mains Power Cable (2.0 m / 6.6 ft pre-assembled)	9290 015 16206
End Cap (universal)	9290 009 15606
TL Male Connector	9290 009 15406
TL Female Connector	9290 009 15506



Philips GreenPower LED Toplighting Compact

Length	72 cm · 28.4 in	L90	36,000 hrs	Frequency	50/60 Hz
Width	24 cm · 9.4 in	L70	50,000 hrs	Power factor	> 0.98
Height	9 cm · 3.5 in	Warranty	5 year limited	Total harmonic distortion	< 15%
Weight	10.5 kg · 23.1 lb	UL/CSA rated	Damp/wet		
Input voltage	200V – 400V	IP rating	IP66		
Beam angle	Wide beam (150°) Standard beam (120°)	Ambient operating temp	0° C Min. · 40° C Max 40° F Min. · 104° F Max		

Philips LED Toplighting Compact 1.0 Static (optimized wide beam 277V-400V)

Toplighting Compact 1.0	12 NC Pallet of 40	12 NC Single unit	Power (W)	Amps 277V	Amps 347V	Photon Flux μmol/s	Efficacy μmol/J
GPL TLC 1800 DRB_LB 277-400V 1.0S xP	9290 021 00061	9290 021 00108	600	2.17	1.73	1800	3.0
GPL TLC 1800 DRW_LB 277-400V 1.0S xP	9290 021 00064	9290 021 00111	620	2.24	1.79	1800	2.9
GPL TLC 1800 DRW_MB 277-400V 1.0S xP	9290 021 00065	9290 021 00112	630	2.27	1.82	1800	2.8
GPL TLC 1650 DRWFR1_LB 277-400V 1.0S xP	9290 021 00067	9290 021 00114	590	2.13	1.70	1650	2.8
GPL TLC 1650 DRWFR4_RSE 277-400V 1.0S xP	9290 021 00069	9290 021 00116	590	2.13	1.70	1650	2.8

x = S for single or M for multi pack

Philips LED Toplighting Compact 1.0 Dimmable* (optimized wide beam 277V-400V)

*Toplighting Compact Dimmable requires Philips GrowWise Control Systems (GWCS)

Toplighting Compact 1.1 Dimmable	12 NC Pallet of 40	12 NC Single Unit	Power (W)	Photon Flux μmol/s	Efficacy μmol/J
GPL TLC 1800 DRB_LB 277-400V 1.0D xP	9290 021 00005	9290 021 00117	49-600	180-1800	3.0
GPL TLC 1800 DRW_LB 277-400V 1.0D xP	9290 021 00008	9290 021 00120	53-620	180-1800	2.9
GPL TLC 1800 DRW_MB 277-400V 1.0D xP	9290 021 00009	9290 021 00121	54-630	180-1800	2.8
GPL TLC 1650 DRWFR1_LB 277-400V 1.0D xP	9290 021 00011	9290 021 00123	51-590	165-1650	2.8
GPL TLC 1650 DRWFR4_RSE 277-400V 1.0D xP	9290 021 00013	9290 021 00125	51-590	165-1650	2.8

x = S for single or M for multi pack

Philips LED Toplighting Compact 1.1 (optimized wide beam 277V-400V)

Toplighting Compact 1.1 can operate as static, or dimmable with Philips GrowWise Control Systems (GWCS)

Toplighting Compact 1.1	12 NC Pallet of 40	12 NC Single unit	Power (W)	Amps 277V	Amps 347V	Photon Flux (μmol/s)	Efficacy (μmol/J)
GPL TLC 2000 DRB_LB 277-400V 1.1D WB xP	9290 021 00160	9290 021 00166	645	2.33	1.86	200-2000	3.1
GPL TLC 1950 DRW_LB 277-400V 1.1D WB xP	9290 021 00161	9290 021 00167	645	2.33	1.86	195-1950	3.0
GPL TLC 1900 DRW_MB 277-400V 1.1D WB xP	9290 021 00162	9290 021 00168	645	2.33	1.86	190-1900	2.9

x = S for single or M for multi pack

Philips LED Toplighting Compact 1.1 (standard beam 200V-400V)

Toplighting Compact 1.1 can operate as static, or dimmable with Philips GrowWise Control Systems (GWCS)

Toplighting Compact 1.1	12 NC Pallet of 40	12 NC Single unit	Power (W)	Amps 208V	Amps 240V	Amps 277V	Amps 347V	Photon Flux (μmol/s)	Efficacy (μmol/J)	
GPL TLC 1850 DRB_LB 200-400V 1.1D xP	9290 021 00173	9290 021 00181	520	2.50	2.17	1.88	1.50	185-1850	3.6	
GPL TLC 1800 DRW_LB 200-400V 1.1D xP	9290 021 00174	9290 021 00182	520	2.50	2.17	1.88	1.50	180-1800	3.5	
GPL TLC 1750 DRW_MB 200-400V 1.1D xP	9290 021 00175	9290 021 00183	520	2.50	2.17	1.88	1.50	175-1750	3.4	
GPL TLC 1650 DRWFR_1 200-400V 1.1D xP	9290 021 00176	9290 021 00184	520	2.50	2.17	1.88	1.50	165-1650	3.2	
GPL TLC 2200 DRB_LB 277-400V 1.1D xP	9290 021 00201	9290 021 00207	645	Not available for 208V - 240V			2.33	1.86	220-2200	3.4
GPL TLC 2150 DRW_LB 277-400V 1.1D xP	9290 021 00202	9290 021 00208	645				2.33	1.86	215-2150	3.3
GPL TLC 2100 DRW_MB 277-400V 1.1D xP	9290 021 00203	9290 021 00209	645				2.33	1.86	210-2100	3.3
GPL TLC 1650 DRW_VSN2 277-400V 1.1D xP	9290 021 00211	9290 021 00213	645				2.33	1.86	165-1650	2.6
GPL TLC 1800 DRB_LB 277-400V 1.1D xP	9290 021 00245	9290 021 00251	590				2.13	1.70	180-1800	3.1
GPL TLC 1800 DRW_LB 277-400V 1.1D xP	9290 021 00246	9290 021 00252	610				2.20	1.76	180-1800	3.0
GPL TLC 1800 DRW_MB 277-400V 1.1D xP	9290 021 00247	9290 021 00253	620				2.24	1.79	180-1800	2.9

x = S for single or M for multi pack

Toplighting Compact Accessories	12 NC
Bracket Module 1.0	9290 021 00019
Bracket TRE 50x30/25 Center	9290 021 00014
Bracket TRE 60x40/30 Center	9290 021 00015
Bracket C 40x40	9290 021 00018
Bracket TRE 50x25 Angle	9290 021 00128

Toplighting Compact Accessories	12 NC
Bracket TRE 50x30 Angle	9290 021 00016
Bracket TRE 60x30 Angle	9290 021 00129
Bracket TRE 60x40 Angle	9290 021 00017
TL Mains Power Cable (2.0 m / 6.6 ft pre-assembled)	9290 015 16206
TL Female Connector	9290 009 15506



Philips GreenPower LED Production Module 3.0

	1.2 m	1.5 m	2.4 m	Input voltage	120V - 277V	IP Rating	IP66
Length	120 cm · 47.2 in	150 cm · 159.0 in	240 cm · 94.5 in	Beam angle	140 °	Ambient operating temp	0° C Min. · 40° C Max
Width	5.6 cm · 22 in	5.6 cm · 22 in	5.6 cm · 22 in	L90	36,000 hrs		40° F Min. · 104° F Max
Height	4.4 cm · 17.3 in	4.4 cm · 17.3 in	4.4 cm · 17.3 in	L70	50,000 hrs	Frequency	50/60 Hz
Weight	1.25 kg · 2.76 lbs	1.45 kg · 3.20 lbs	2.05 kg · 4.52 lbs	Warranty	5 year limited	Power factor	> 0.90
				UL/CSA rated	Damp/wet	Total harmonic distortion	< 0.10

Philips LED Production Module 3.0

Production Module 3.0 (120 cm)	12 NC	Power (W)	Amps 120V	Amps 208V	Amps 240V	Amps 277V	Photon Flux umol/s	Efficacy umol/J
GPL PM 168 DRW_LB L120 G3.0 S NA	9290 014 83606	63	0.53	0.30	0.26	0.23	168	2.67
GPL PM 168 DRB_HB L120 G3.0 S NA	9290 021 00022	59	0.49	0.28	0.25	0.21	168	2.85
Production Module 3.0 (150 cm)								
GPL PM 210 DRW_LB L150 G3.0 S NA	9290 014 84006	79	0.66	0.38	0.33	0.29	210	2.66
GPL PM 210 DRB_HB L150 G3.0 S NA	9290 021 00023	74	0.62	0.36	0.31	0.27	210	2.84
Production Module 3.0 (240 cm)								
GPL PM 210 DRBFR_LB L240 G3.0 S NA	9290 014 84906	70	0.58	0.34	0.29	0.25	210	3.00

Philips LED Production Module 3.0 Dynamic

Production Module Dynamic requires Philips GrowWise Control Systems (GWCS)

LED Production Module 3.0 Dynamic (120 cm)	12nc	Power (W)	Photon Flux umol/s	Efficacy umol/J
GPL PM 168 DRB L120 G3.0 C2 NA	9290 021 00043	70	0-168	up to 3.0
GPL PM 168 DRBFR L120 G3.0 C3 NA	9290 021 00044	70	0-168	up to 3.0
GPL PM 168 DRW L120 G3.0 C2 NA	9290 021 00045	70	0-168	up to 3.0
GPL PM 168 DRWFR L120 G3.0 C3 NA	9290 021 00046	70	0-168	up to 3.0
GPL PM 168 DRBWFR L120 G3.0 C4 NA	9290 014 84406	70	0-168	up to 3.0
LED Production Module 3.0 Dynamic (150 cm)				
GPL PM 210 DRB L150 G3.0 C2 NA	9290 021 00047	88	0-210	up to 3.0
GPL PM 210 DRBFR L150 G3.0 C3 NA	9290 021 00048	88	0-210	up to 3.0
GPL PM 210 DRW L150 G3.0 C2 NA	9290 021 00049	88	0-210	up to 3.0
GPL PM 210 DRWFR L150 G3.0 C3 NA	9290 021 00050	88	0-210	up to 3.0
GPL PM 210 DRBWFR L150 G3.0 C4 NA	9290 014 84506	88	0-210	up to 3.0
LED Production Module 3.0 Dynamic (240 cm)				
GPL PM 210 DRBFR L240 G3.0 C3 NA	9290 021 00051	88	0-210	up to 3.0

Production Module Accessories	12 NC
Mid-bracket hook	9290 021 00097
End bracket hook	9290 021 00096
End bracket screw	9290 021 00095
End cap for female 3.2	9290 015 54006
1-2 Distributor Wieland RST16 2P	9290 021 00098
Wieland RST16 Female Connector 2P	9290 021 00099
Wieland RST16 Male Connector 2P	9290 021 00101
Power/connection cable 2m	9290 021 00104
Jumper/extension cable 2m	9290 021 00105



Philips GreenPower Interlighting 3.1 HO | 3.0 RO

Length	2.0 m 1.95 m · 76.7 in	2.5 m 2.42 m · 95.3 in	Input voltage	200V – 400V	IP rating	IP66
Width	6.5 cm · 2.6 in	6.5 cm · 2.6 in	Beam angle	Bi-directional 120°	Ambient operating temp	0° C Min. · 40° C Max 40° F Min. · 104° F Max
Height	7.6 cm · 3.0 in	7.6 cm · 3.0 in	L90	36,000 hrs	Frequency	50/60 Hz
Weight	2.2 kg · 4.9 lb	2.5 kg · 5.5 lb	L70	50,000 hrs	Power factor	> 0.90
			Warranty	5 year limited	Total harmonic distortion	<10%
			UL/CSA rated	Damp/wet		

Philips LED Interlighting 3.1 High Output (HO)

Interlighting 3.1 High Output (HO)	12 NC	Power (W)	Amps 208V	Amps 240V	Amps 277V	Amps 347V	Photon Flux µmol/s	Efficacy µmol/J
GPL IL 300 DRB L250 200-400V G3.1 S NA	9290 021 00154	92	0.44	0.38	0.33	0.26	300	3.3
GPL IL 240 DRB L200 200-400V G3.1 S NA	9290 021 00155	74	0.36	0.31	0.27	0.21	240	3.2

Philips LED Interlighting 3.0 Regular Output (RO)

Interlighting 3.0 Regular Output (RO)	12 NC	Power (W)	Amps 208V	Amps 240V	Amps 277V	Amps 347V	Photon Flux µmol/s	Efficacy µmol/J
GP LED interlighting mod DR/B 250 RO NA	9290 015 55006	79	0.38	0.33	0.29	0.23	220	2.8
GP LED interlighting mod DR/B 200 RO NA	9290 015 55306	64	0.31	0.27	0.23	0.18	175	2.7

Interlighting Accessories	12 NC
IL 3.0 Mounting Bracket 3.3 (171 mm)	9290 016 13106
IL 3.0 Mounting Bracket 3.4 (271 mm)	9290 016 13206
IL 3.0 Mains Power Cable (6.5 m)	9290 015 56606
IL 3.0 Jumper Cable (1 m)	9290 015 56906
IL 3.0 Female Connector	9290 015 99406
End Cap (universal)	9290 009 15606



Philips GreenPower LED Flowering Lamp

Length	12.7 cm · 5.0 in	L90	25,000 hrs	Frequency	50/60 Hz
Width	12.7 cm · 5.0 in	Warranty	3 year standard	Power factor	> 0.90
Height	16.4 cm · 6.5 in	UL/CSA rated	Damp/dry	Total harmonic distortion	< 20%
Weight	0.2 kg · 0.4 lb	IP rating	IP44		
Input voltage	100V – 120V	Ambient operating temp	0° C Min. · 40° C Max 32° F Min. · 104° F Max		
Beam angle:	110°				

*Medium Base E26

Flowering Lamp	12 NC	Power (W)	Amps 120V	Photon Flux µmol/s	Efficacy µmol/J
GP LED flowering DR/W E26	9290 015 45906	13W	0.11	25	1.9
GP LED flowering DR/W/FR E26	9290 015 46106	11W	0.09	20	1.8



© 2021 Signify Holding. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. All other trademarks are owned by Signify Holding or their respective owners.