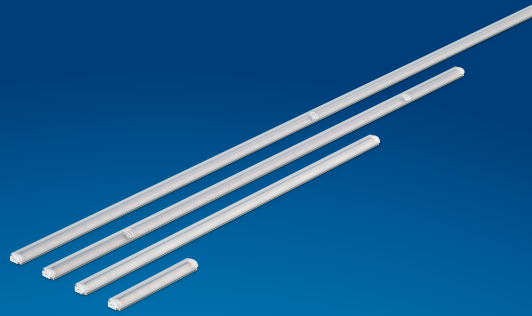


PHILIPS

InteGrade

Vision G2



Datasheet

InteGrade LED system

Compact linear LED lighting for maximum freedom of design

Key features and benefits

- Long life-time: >50,000 hours
- High color rendering
- Excellent color consistency of 5 SDCM
- Full range of color temperatures
- Two lumen packages: Value and Vision
- Dimmable
- Five year system warranty

June 2016

Ordering data

Commercial product name	EOC	12NC	Box quantity
InteGrade engine Vi 140mm (6") 930 G2	8718696 569290 00	9290 015 09606	24
InteGrade engine Vi 575mm (23") 930 G2	8718696 569634 00	9290 015 09706	24
InteGrade engine Vi 855mm (34") 930 G2	8718696 570531 00	9290 015 09806	24
InteGrade engine Vi 1150mm (46") 930 G2	8718696 570555 00	9290 015 09906	24
InteGrade engine Vi 140mm (6") 940 G2	8718696 569337 00	9290 015 10406	24
InteGrade engine Vi 575mm (23") 940 G2	8718696 569672 00	9290 015 10506	24
InteGrade engine Vi 855mm (34") 940 G2	8718696 570616 00	9290 015 10606	24
InteGrade engine Vi 1150mm (46") 940 G2	8718696 570630 00	9290 015 10706	24
InteGrade engine Vi 140mm (6") 856 G2	8718696 569351 00	9290 015 10806	24
InteGrade engine Vi 575mm (23") 856 G2	8718696 569696 00	9290 015 10906	24
InteGrade engine Vi 140mm (6") WWR G2	8718696 569375 00	9290 015 11006	24
InteGrade engine Vi 575mm (23") WWR G2	8718696 569719 00	9290 015 11106	24
InteGrade engine Vi 855mm (34") WWR G2	8718696 570654 00	9290 015 11206	24
InteGrade engine Vi 1150mm (46") WWR G2	8718696 570678 00	9290 015 11306	24
InteGrade profile 875mm(34")	8718291 219538 00	9290 006 43413	48
InteGrade profile 1175mm(46")	8718291 219552 00	9290 006 43313	48
InteGrade profile 2000mm(79") F style	8718291 227892 00	9290 006 54313	24
InteGrade profile 2000mm(79")	8718291 257899 00	9290 006 54413	48
InteGrade profile 2000mm(79") L style	8718291 257912 00	9290 006 54513	48
InteGrade connector	8718696 462157 00	9290 009 59106	100
InteGrade engine lock inline	8718291 219514 00	9290 006 43713	100
InteGrade power cable 1m(39") black	8718291 218128 00	9290 006 41014	24
InteGrade power cable 2.5m(98") black	8718291 221449 00	9290 006 41114	24
InteGrade cable 1m(39") black angle	8718291 221364 00	9290 006 44614	24
InteGrade cable 2.5m(98") black angle	8718291 221463 00	9290 006 44814	24
InteGrade spacer cable 0.5m black	8718291 221524 00	9290 006 45014	24
InteGrade power cable 1m(39") white	8718291 221401 00	9290 006 45614	24
InteGrade power cable 2.5m(98") white	8718291 221487 00	9290 006 44514	24
InteGrade cable 1m(39") white angle	8718291 221425 00	9290 006 44714	24
InteGrade cable 2.5m(98") white angle	8718291 221500 00	9290 006 44914	24
InteGrade spacer cable 0.5m white	8718291 221548 00	9290 006 45114	24
InteGrade mounting clip shelf arm	8718291 218791 00	9290 006 43803	100
InteGrade mounting clip under shelf	8718291 218814 00	9290 006 43903	100
InteGrade mounting clip for T style profile	8718291 676508 00	9290 008 53213	100
InteGrade engine clip shelf arm G2	8718696 657102 00	9290 015 16006	100
InteGrade engine mounting clip G2	9718696 657126 00	9290 015 16106	100

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T (ambient temperature in free air)	5	30	30	°C

* Nominal value at which typical performance is specified

** Value at which life time L70B50 50000 hours (3 switching cycles per day) is specified in combination with a Philips LED Power driver.

*** Maximum value for safe operation, do not operate above this value

Optical characteristics - table per color (CCT)

InteGrade engine Vi 140mm (6") 930 G2

Parameter	Min	Typ	Max	Unit
Luminous flux	136	170	204	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.429, 0.398)		-
Color consistency			5	SDCM
CRI	90			
Photobiological safety			RG1	
Energy efficiency label		A+		

Measurement precision for flux +/- 5%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5

InteGrade engine Vi 575mm (23") 930 G2

Parameter	Min	Typ	Max	Unit
Luminous flux	600	750	900	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.429, 0.398)		-
Color consistency			5	SDCM
CRI	90			
Photobiological safety			RG1	
Energy efficiency label		A		

Measurement precision for flux +/- 5%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5

InteGrade engine Vi 855mm (34") 930 G2

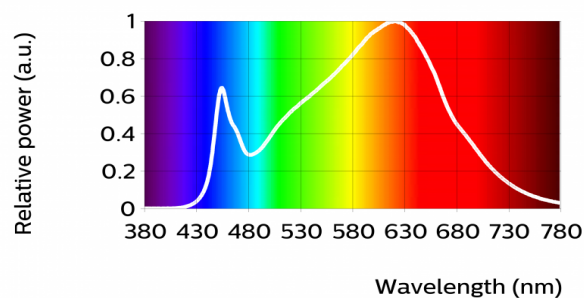
Parameter	Min	Typ	Max	Unit
Luminous flux	872	1090	1308	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.429, 0.398)		-
Color consistency			5	SDCM
CRI	90			
Photobiological safety			RG1	
Energy efficiency label		A		

Measurement precision for flux +/- 5%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5

InteGrade engine Vi 1150mm (46") 930 G2

Parameter	Min	Typ	Max	Unit
Luminous flux	1200	1500	1800	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.429, 0.398)		-
Color consistency			5	SDCM
CRI	90			
Photobiological safety			RG1	
Energy efficiency label		A		

Measurement precision for flux +/- 5%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5



InteGrade engine Vi 140mm (6") 940 G2

Parameter	Min	Typ	Max	Unit
Luminous flux	144	180	216	lm
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.378, 0.374)		-
Color consistency			5	SDCM
CRI	90			
Photobiological safety			RG1	
Energy efficiency label		A+		

Measurement precision for flux +/- 5%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5

InteGrade engine Vi 575mm (23") 940 G2

Parameter	Min	Typ	Max	Unit
Luminous flux	640	800	960	lm
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.378, 0.374)		-
Color consistency			5	SDCM
CRI	90			
Photobiological safety			RG1	
Energy efficiency label		A		

Measurement precision for flux +/- 5%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5

InteGrade engine Vi 855mm (34") 940 G2

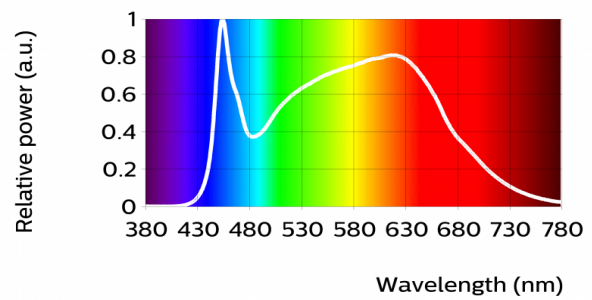
Parameter	Min	Typ	Max	Unit
Luminous flux	928	1160	1392	lm
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.378, 0.374)		-
Color consistency			5	SDCM
CRI	90			
Photobiological safety			RG1	
Energy efficiency label		A		

Measurement precision for flux +/- 5%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5

InteGrade engine Vi 1150mm (46") 940 G2

Parameter	Min	Typ	Max	Unit
Luminous flux	1280	1600	1920	lm
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.378, 0.374)		-
Color consistency			5	SDCM
CRI	90			
Photobiological safety			RG1	
Energy efficiency label		A		

Measurement precision for flux +/- 5%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5



InteGrade engine Vi 140mm (6") 856 G2

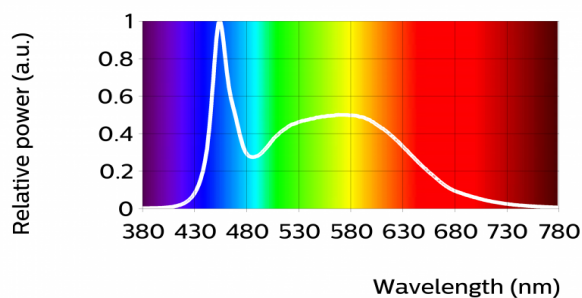
Parameter	Min	Typ	Max	Unit
Luminous flux	144	180	216	lm
Correlated color temperature (CCT)		5600		K
Color coordinates (CIEx, CIEy)		(0.328, 0.345)		-
Color consistency			5	SDCM
CRI	80			
Photobiological safety			RG1	
Energy efficiency label		A++		

Measurement precision for flux +/- 5%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5

InteGrade engine Vi 575mm (23") 856 G2

Parameter	Min	Typ	Max	Unit
Luminous flux	640	800	960	lm
Correlated color temperature (CCT)		5600		K
Color coordinates (CIEx, CIEy)		(0.328, 0.345)		-
Color consistency			5	SDCM
CRI	80			
Photobiological safety			RG1	
Energy efficiency label		A+		

Measurement precision for flux +/- 5%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5



InteGrade engine Vi 140mm (6") WWR G2

Parameter	Min	Typ	Max	Unit
Luminous flux	120	150	180	lm
Color coordinates (CIEx, CIEy)		(0.386, 0.330)		-
Color consistency			5	SDCM
CRI	90			
Photobiological safety			RG1	
Energy efficiency label		exempt		

Measurement precision for flux +/- 5%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5.
WWR products are special purpose products for refrigerated cabinets. They are not intended for in-house use.

InteGrade engine Vi 575mm (23") WWR G2

Parameter	Min	Typ	Max	Unit
Luminous flux	520	650	780	lm
Color coordinates (CIEx, CIEy)		(0.386, 0.330)		-
Color consistency			5	SDCM
CRI	90			
Photobiological safety			RG1	
Energy efficiency label		exempt		

Measurement precision for flux +/- 5%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5.
 WWR products are special purpose products for refrigerated cabinets. They are not intended for in-house use.

InteGrade engine Vi 855mm (34") WWR G2

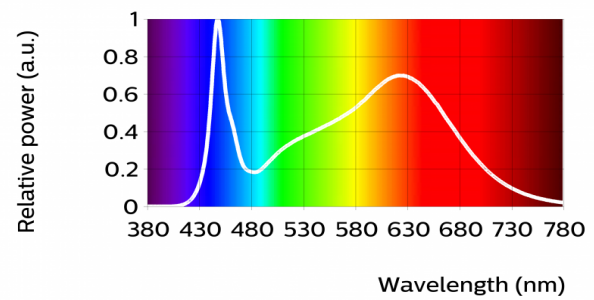
Parameter	Min	Typ	Max	Unit
Luminous flux	760	950	1140	lm
Color coordinates (CIEx, CIEy)		(0.386, 0.330)		-
Color consistency			5	SDCM
CRI	90			
Photobiological safety			RG1	
Energy efficiency label		exempt		

Measurement precision for flux +/- 5%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5.
 WWR products are special purpose products for refrigerated cabinets. They are not intended for in-house use.

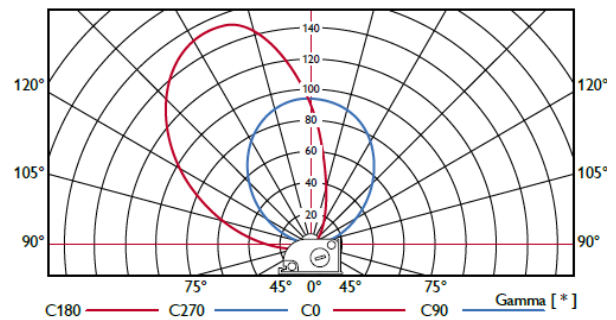
InteGrade engine Vi 1150mm (46") WWR G2

Parameter	Min	Typ	Max	Unit
Luminous flux	1040	1300	1560	lm
Color coordinates (CIEx, CIEy)		(0.386, 0.330)		-
Color consistency			5	SDCM
CRI	90			
Photobiological safety			RG1	
Energy efficiency label		exempt		

Measurement precision for flux +/- 5%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5.
WWR products are special purpose products for refrigerated cabinets. They are not intended for in-house use.



Beam shape



Electrical characteristics

[InteGrade engine Vi 140mm \(6"\) 930 G2](#)

[InteGrade engine Vi 140mm \(6"\) 940 G2](#)

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		2.2		W

[InteGrade engine Vi 575mm \(23"\) 930 G2](#)

[InteGrade engine Vi 575mm \(23"\) 940 G2](#)

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		10.0		W

[InteGrade engine Vi 855mm \(34"\) 930 G2](#)

[InteGrade engine Vi 855mm \(34"\) 940 G2](#)

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		14.0		W

[InteGrade engine Vi 1150mm \(46"\) 930 G2](#)

[InteGrade engine Vi 1150mm \(46"\) 940 G2](#)

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		20.0		W

[InteGrade engine Vi 140mm \(6"\) 856 G2](#)

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		1.9		W

[InteGrade engine Vi 575mm \(23"\) 856 G2](#)

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		8.5		W

InteGrade engine Vi 140mm (6") WWR G2

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		2.0		W

InteGrade engine Vi 575mm (23") WWR G2

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		9.0		W

InteGrade engine Vi 855mm (34") WWR G2

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		13.0		W

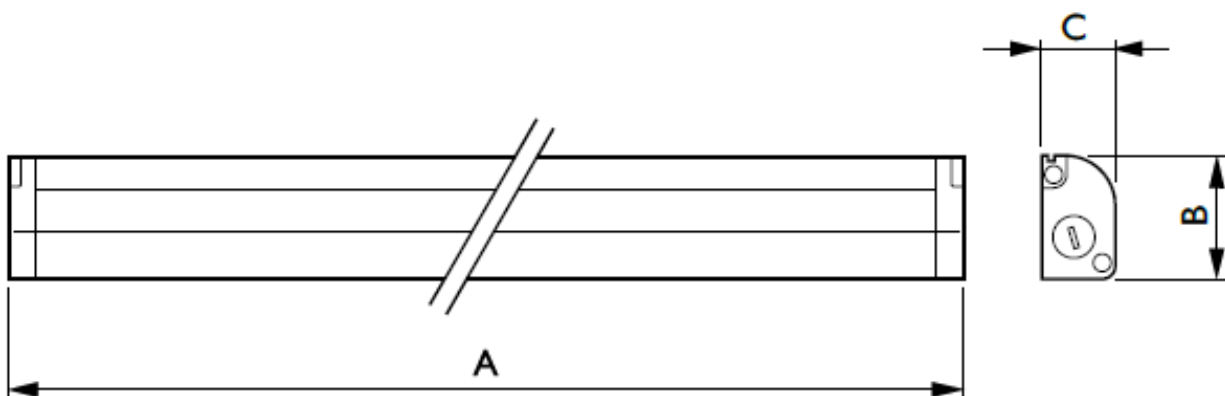
InteGrade engine Vi 1150mm (46") WWR G2

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		18.0		W

Mechanical characteristics

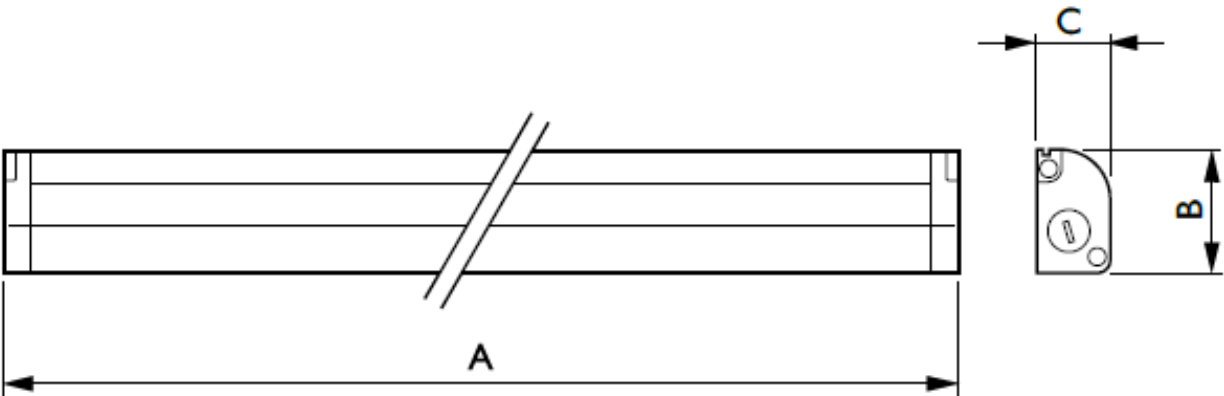
InteGrade engine Vi 140mm (6") 930 G2
 InteGrade engine Vi 140mm (6") 940 G2
 InteGrade engine Vi 140mm (6") 856 G2
 InteGrade engine Vi 140mm (6") WWR G2

Parameter	Min	Typ	Max	Unit
A		140		mm
B		18.5		mm
C		11		mm



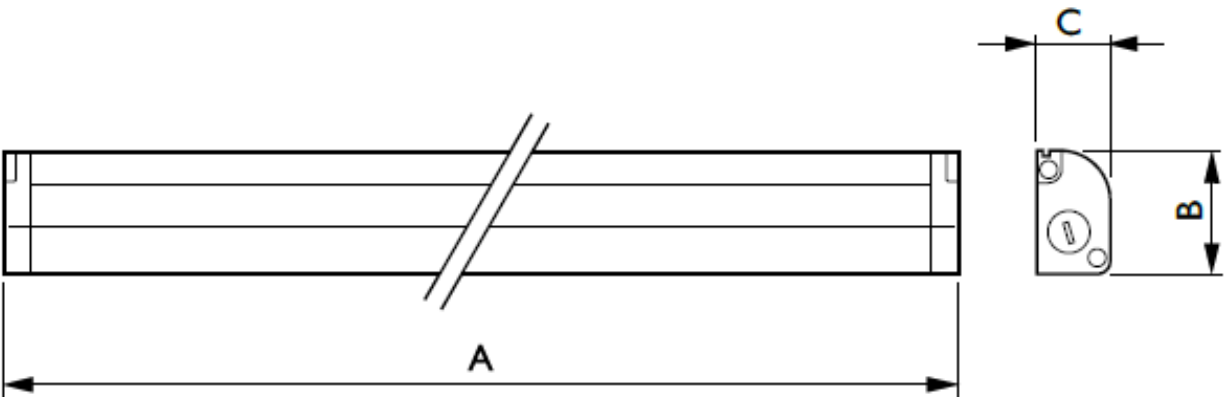
InteGrade engine Vi 575mm (23") 930 G2
 InteGrade engine Vi 575mm (23") 940 G2
 InteGrade engine Vi 575mm (23") 856 G2
 InteGrade engine Vi 575mm (23") WWR G2

Parameter	Min	Typ	Max	Unit
A		575		mm
B		18.5		mm
C		11		mm



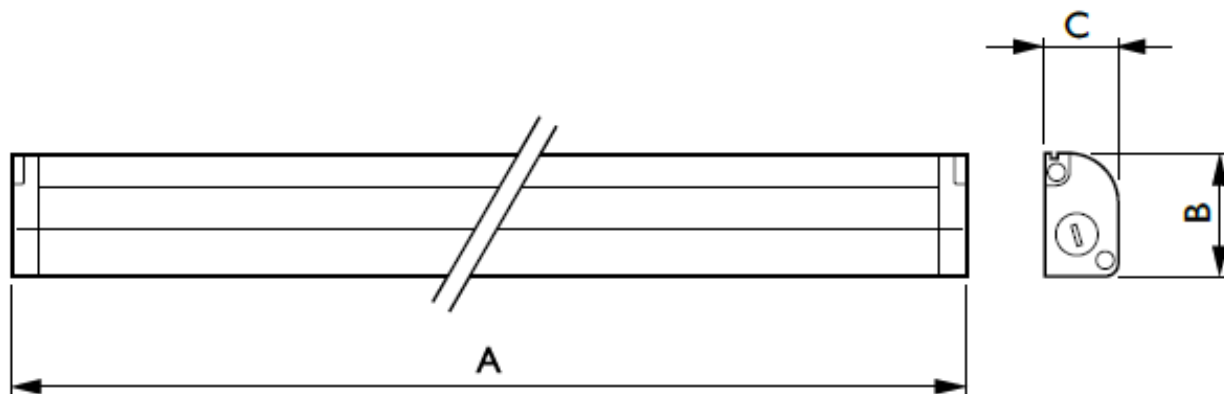
InteGrade engine Vi 855mm (34") 930 G2
 InteGrade engine Vi 855mm (34") 940 G2
 InteGrade engine Vi 855mm (34") WWR G2

Parameter	Min	Typ	Max	Unit
L		855		mm
B		18.5		mm
C		11		mm

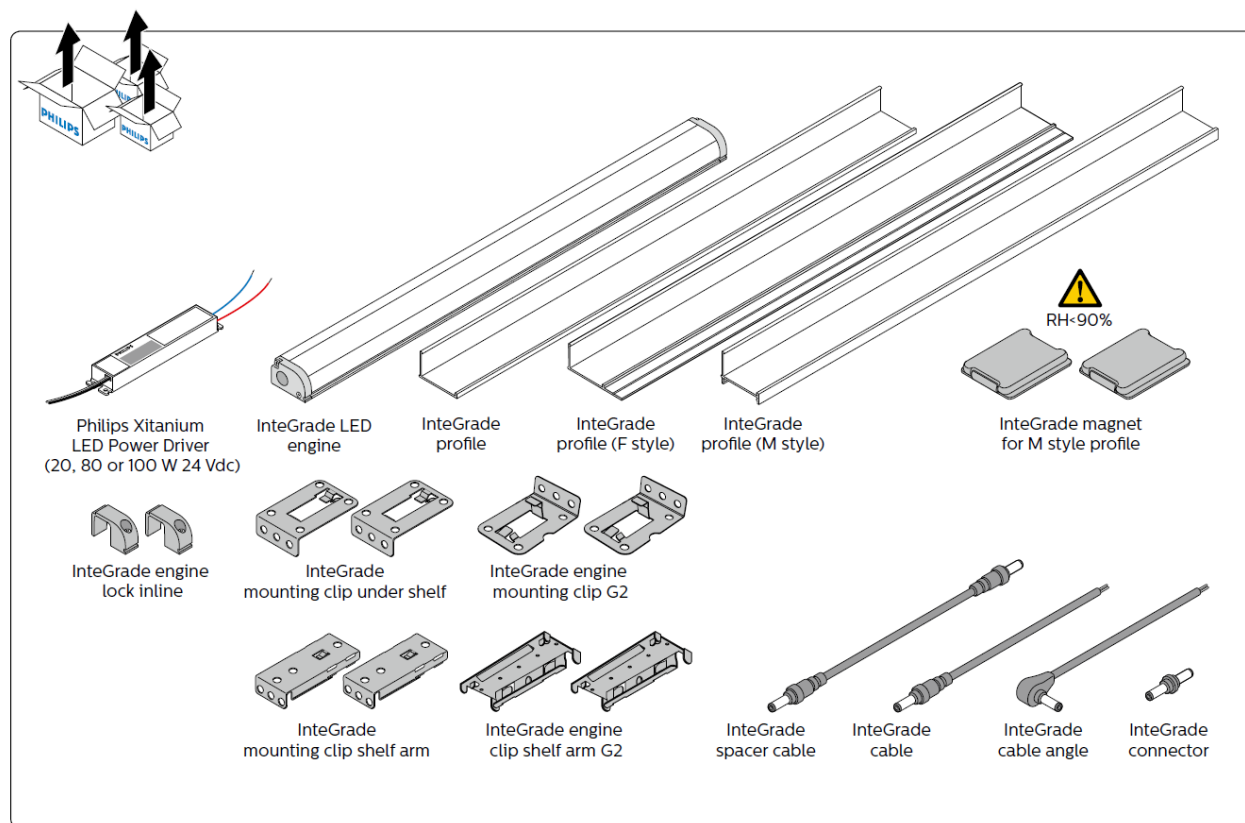


InteGrade engine Vi 1150mm (46") 930 G2
 InteGrade engine Vi 1150mm (46") 940 G2
 InteGrade engine Vi 1150mm (46") WWR G2

Parameter	Min	Typ	Max	Unit
A		1150		mm
B		18.5		mm
C		11		mm



Accessories



Absolute ratings

Parameter	Min	Typ	Max	Unit
Case temperature (Tc-max)			70	°C
ESD Human Body Model (HBM) Class 3A JESD22-A114-E 8 kV			4	kV
ESD Machine Model (MM) Class B JESD22-A115-B			8	kV
Ambient temperature	-30		30	°C
Storage temperature	-30		60	°C

Application information

Compliance and approval

CSA C22.2 No.9, UL 2108, EN 62031, EN 62471, IEC / EN 60335-2-24, IEC / EN 60335-2-89, IEC/TR 62278

The InteGrade system is certified with Philips LED Power drivers.

Environmental

RoHS/REACH

Application

IP rating	No IP-rating
Overheating protection	No protection
Luminaire class	IEC Class II
Luminaire class ANSI	
Dimming	Yes

