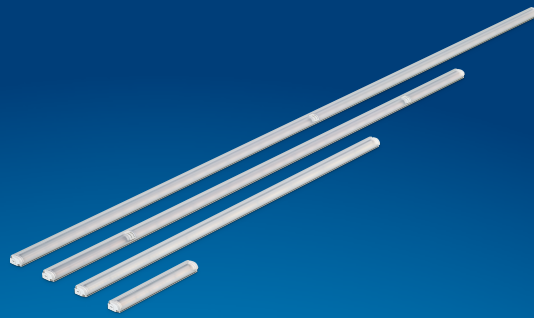


PHILIPS

InteGrade

LED

InteGrade engine value
PW G3



Datasheet

InteGrade premium white LED system

Compact linear LED lighting for ultimate shopping experience

Key features and benefits

- Superior light quality with premium white for enhanced white performance and astonishing lively rich colors
- State-of-art Efficacy up to 125 lm/W
- Breakthrough optical design directing the light precisely to shine the merchandise
- One look and feel in the stores when combined with premium white spot lighting solutions
- Miniaturized slim design for aesthetic integration
- Continuous line of light to eliminate undesirable hot spots, glare, reflections
- Long life-time: >50,000 hours
- Maximum design flexibility with extensive range of engine lengths, color temperatures and accessories
- True System proposition with Xitanium Constant Voltage LED power drivers
- Five year system warranty
- Dimmable

December 2020



Ordering data

Commercial product name	EOC	12NC	Box quantity
InteGrade engine Va 140mm 930 PW G3	8718696 714584 00	9290 015 67506	24
InteGrade engine Va 140mm 940 PW G3	8718696 714621 00	9290 015 67906	24
InteGrade engine Va 575mm 930 PW G3	8718696 715642 00	9290 015 67606	24
InteGrade engine Va 575mm 940 PW G3	8718696 715666 00	9290 015 68006	24
InteGrade engine Va 855mm 930 PW G3	8718696 715888 00	9290 015 67706	24
InteGrade engine Va 855mm 940 PW G3	8718696 715901 00	9290 015 68106	24
InteGrade engine Va 1150mm 930 PW G3	8718696 716007 00	9290 015 67806	24
InteGrade engine Va 1150mm 940 PW G3	8718696 716021 00	9290 015 68206	24

Key Specifications at Nominal conditions

Name	12NC	Power (W)	Luminous Flux (lm)	Flux 120° cone (lm)	CRI
InteGrade engine Va 140mm 930 PW G3	9290 015 67506	0.80	85		90
InteGrade engine Va 140mm 940 PW G3	9290 015 67906	0.80	90		90
InteGrade engine Va 575mm 930 PW G3	9290 015 67606	3.40	380		90
InteGrade engine Va 575mm 940 PW G3	9290 015 68006	3.40	420		90
InteGrade engine Va 855mm 930 PW G3	9290 015 67706	4.90	550		90
InteGrade engine Va 855mm 940 PW G3	9290 015 68106	4.90	600		90
InteGrade engine Va 1150mm 930 PW G3	9290 015 67806	6.70	760		90
InteGrade engine Va 1150mm 940 PW G3	9290 015 68206	6.70	840		90

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T _a (ambient temperature)	5	30	30	°C

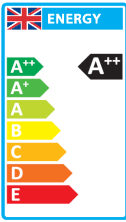

* Nominal value at which typical performance is specified

** Value at which life time is specified

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

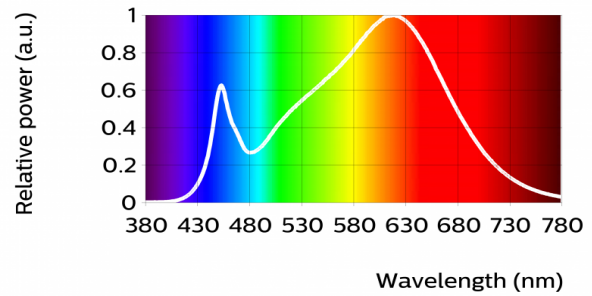
Optical characteristics - table per color (CCT)

InteGrade engine Va 140mm 930 PW G3

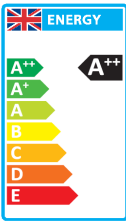

Parameter		Min	Typ	Max	Unit
Luminous flux		68	85	102	lm
Correlated color temperature (CCT)			3000		K
Color coordinates (CIEx, CIEy)			(0.423, 0.388)		-
Color consistency				5	SDCM
CRI		90	93		
Photobiological safety				RG1 unlimited	

R9 of 60, typical value

Measurement precision for flux +/- 5%, for efficacy +/- 6%, for x, y +/- 0.005, for CRI +/- 1.5

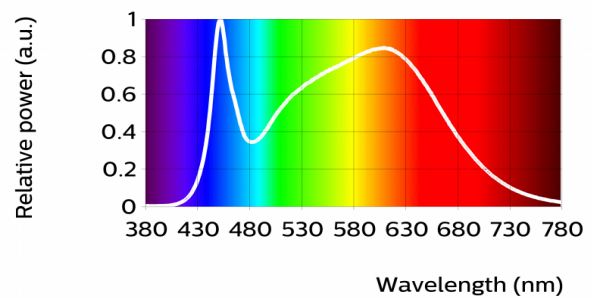


InteGrade engine Va 140mm 940 PW G3

Parameter		Min	Typ	Max	Unit
Luminous flux		72	90	108	lm
Correlated color temperature (CCT)			4000		K
Color coordinates (CIEx, CIEy)			(0.375, 0.366)		-
Color consistency				5	SDCM
CRI		90	93		
Photobiological safety				RG1 unlimited	

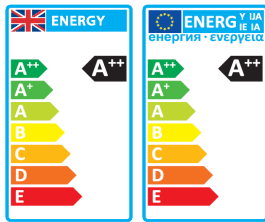
R9 of 60, typical value

Measurement precision for flux +/- 5%, for efficacy +/- 6%, for x, y +/- 0.005, for CRI +/- 1.5



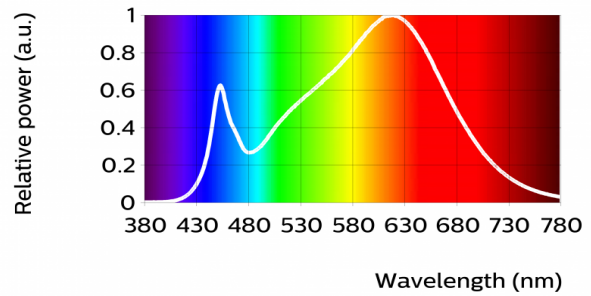
InteGrade engine Va 575mm 930 PW G3

Parameter	Min	Typ	Max	Unit
Luminous flux	304	380	456	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.423, 0.388)		-
Color consistency			5	SDCM
CRI	90	93		
Photobiological safety			RG1 unlimited	



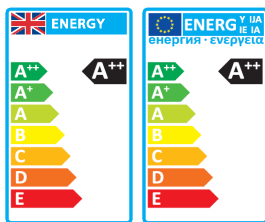
R9 of 60, typical value

Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



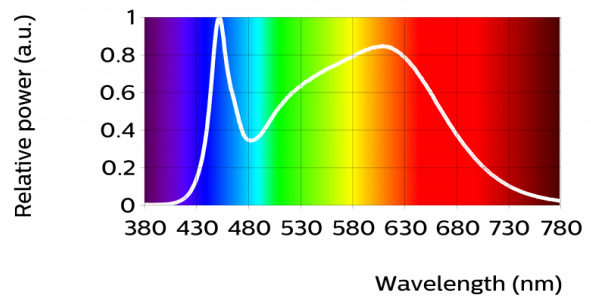
InteGrade engine Va 575mm 940 PW G3

Parameter	Min	Typ	Max	Unit
Luminous flux	336	420	504	lm
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.375, 0.366)		-
Color consistency			5	SDCM
CRI	90	93		
Photobiological safety			RG1 unlimited	



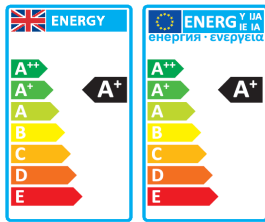
R9 of 60, typical value

Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



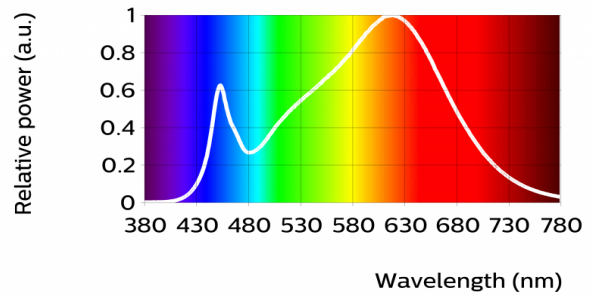
InteGrade engine Va 855mm 930 PW G3

Parameter	Min	Typ	Max	Unit
Luminous flux	440	550	660	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.423, 0.388)		-
Color consistency			5	SDCM
CRI	90	93		
Photobiological safety			RG1 unlimited	



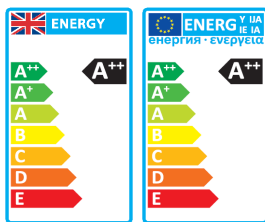
R9 of 60, typical value

Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



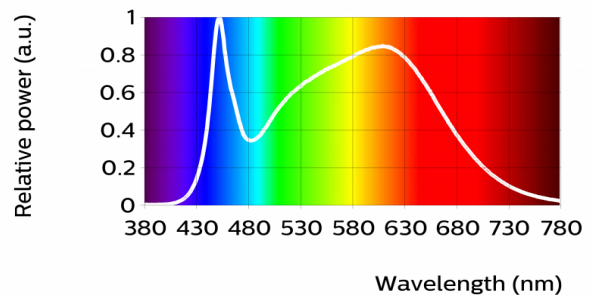
InteGrade engine Va 855mm 940 PW G3

Parameter	Min	Typ	Max	Unit
Luminous flux	480	600	720	lm
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.375, 0.366)		-
Color consistency			5	SDCM
CRI	90	93		
Photobiological safety			RG1 unlimited	



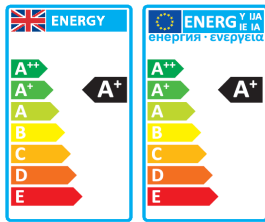
R9 of 60, typical value

Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



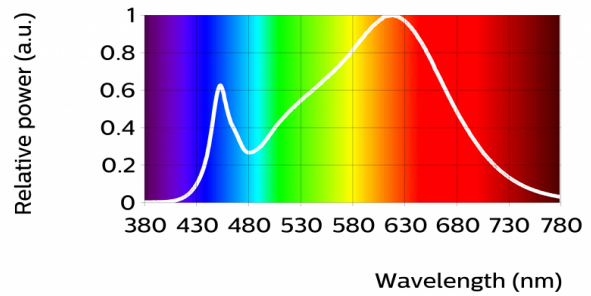
InteGrade engine Va 1150mm 930 PW G3

Parameter	Min	Typ	Max	Unit
Luminous flux	608	760	912	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.423, 0.388)		-
Color consistency			5	SDCM
CRI	90	93		
Photobiological safety			RG1 unlimited	



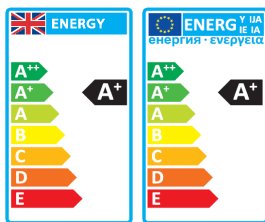
R9 of 60, typical value

Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



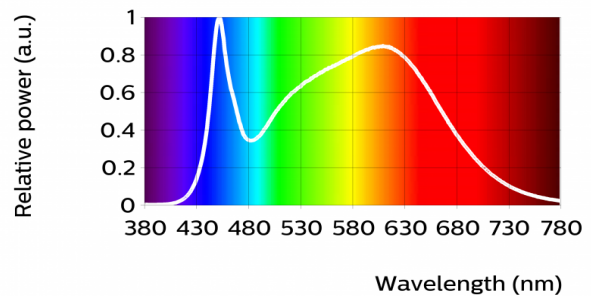
InteGrade engine Va 1150mm 940 PW G3

Parameter	Min	Typ	Max	Unit
Luminous flux	672	840	1008	lm
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.375, 0.366)		-
Color consistency			5	SDCM
CRI	90	93		
Photobiological safety			RG1 unlimited	

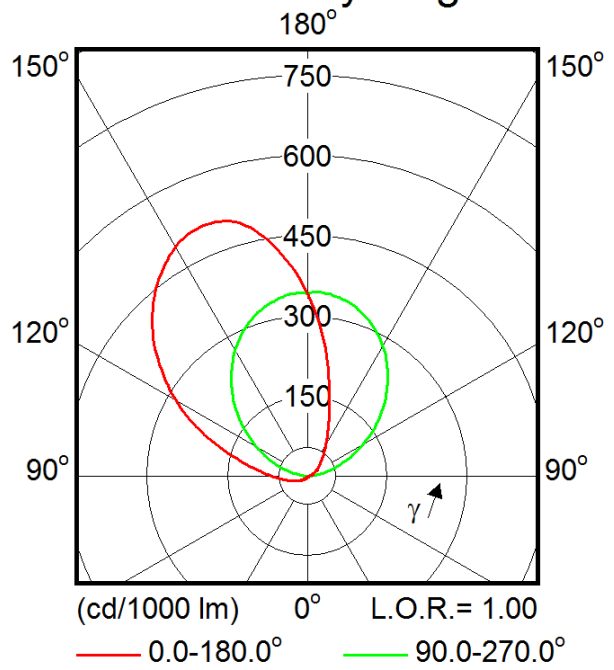


R9 of 60, typical value

Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



Polar intensity diagram



Electrical characteristics

[InteGrade engine Va 140mm 930 PW G3](#)

[InteGrade engine Va 140mm 940 PW G3](#)

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		0.80		W = kWh/1000h
Number of modules in series per chain			50	
Measurement precision for power +/- 3.3%				

[InteGrade engine Va 575mm 930 PW G3](#)

[InteGrade engine Va 575mm 940 PW G3](#)

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		3.40		W = kWh/1000h
Number of modules in series per chain			12	
Measurement precision for power +/- 3.3%				

[InteGrade engine Va 855mm 930 PW G3](#)

[InteGrade engine Va 855mm 940 PW G3](#)

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		4.90		W = kWh/1000h
Number of modules in series per chain			8	
Measurement precision for power +/- 3.3%				

[InteGrade engine Va 1150mm 930 PW G3](#)

[InteGrade engine Va 1150mm 940 PW G3](#)

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		6.70		W = kWh/1000h
Number of modules in series per chain			6	
Measurement precision for power +/- 3.3%				

Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80		
		B50	B20	B10	B50	B20	B10
Ta -20°C	>75	>75	>75	>75	>75	>75	
Ta 5°C	>75	>75	>75	>75	65	64	
Ta 30°C	>75	75	75	74	47	46	

Lifetime

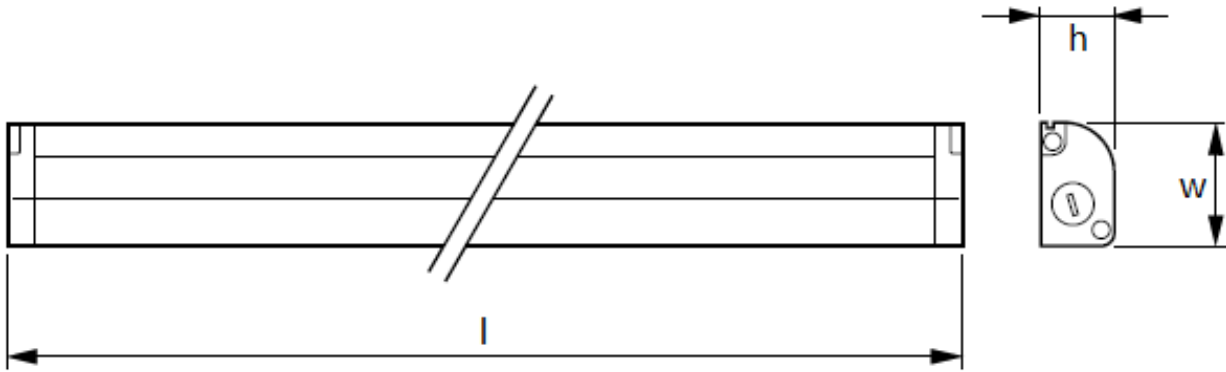
Parameter	Value	Unit
M70F50 nominal	100000	hours
M70F50 life	74000	hours

Switching cycles in accordance to EU 1194/2012: >15000

Mechanical characteristics

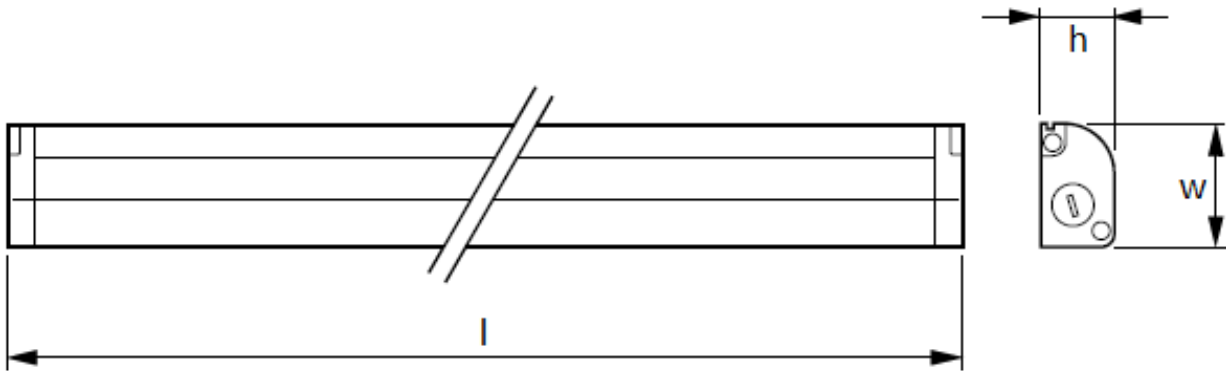
InteGrade engine Va 140mm 930 PW G3
 InteGrade engine Va 140mm 940 PW G3

Parameter	Min	Typ	Max	Unit
Length	136	140	144	mm
Width	18.2	18.5	18.7	mm
Height	10.5	11	13.5	mm
Product mass		30		gram



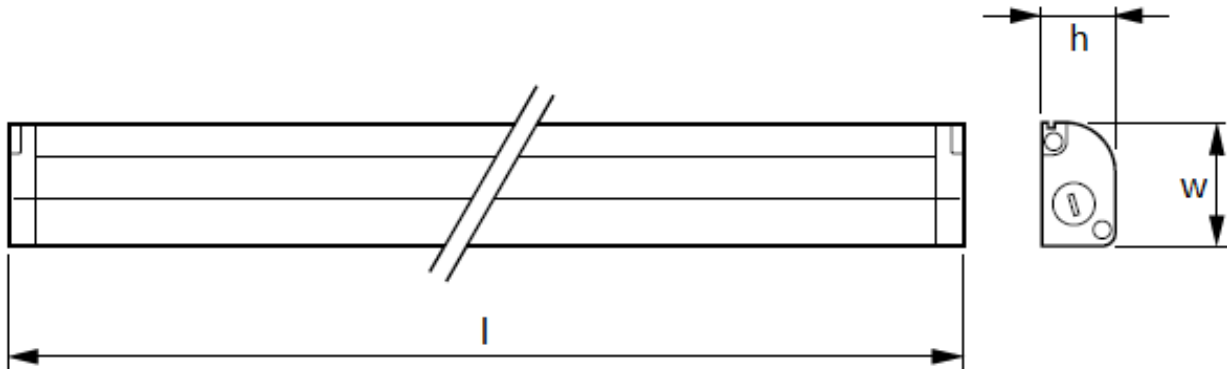
InteGrade engine Va 575mm 930 PW G3
 InteGrade engine Va 575mm 940 PW G3

Parameter	Min	Typ	Max	Unit
Length	571	575	579	mm
Width	18.2	18.5	18.7	mm
Height	10.5	11	13.5	mm
Product mass		140		gram



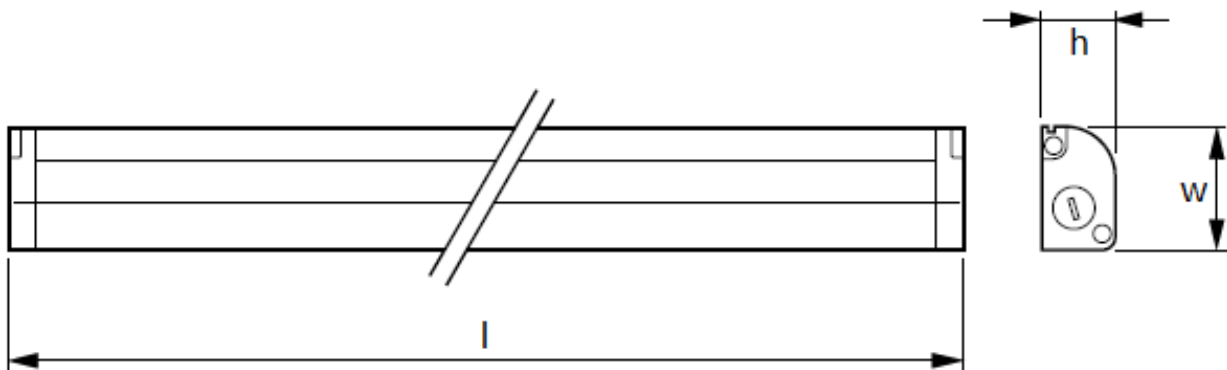
InteGrade engine Va 855mm 930 PW G3
 InteGrade engine Va 855mm 940 PW G3

Parameter	Min	Typ	Max	Unit
Length	851	855	859	mm
Width	18.2	18.5	18.7	mm
Height	10.5	11	13.5	mm
Product mass		184		gram



InteGrade engine Va 1150mm 930 PW G3
 InteGrade engine Va 1150mm 940 PW G3

Parameter	Min	Typ	Max	Unit
Length	1146	1150	1154	mm
Width	18.2	18.5	18.7	mm
Height	10.5	11	13.5	mm
Product mass		247		gram



Absolute ratings

Parameter	Min	Max	Unit
Case temperature (Tc-max)		70	°C
ESD (direct contact)	4		kV
ESD (air)	8		kV
Ambient temperature	-30	30	°C
Storage temperature	-30	60	°C

Application information

Certificates and Standards

IEC/EN 62031

IEC/EN 62471

Relevant clauses of IEC/EN 60335-1

Annex BB of IEC/EN 60335-2-89

Annex CC of IEC/EN 60335-2-24

CSA C22.2 No.9.0-96

UL 2108

NSF

Environmental

RoHS/REACH

Application

IP rating	No IP-rating, fit for use in coolers and freezers
Overheating protection	No protection
Luminaire class	IEC Class III if connected to a SELV driver
Dimming	Yes

The InteGrade system is certified with the household standard compliant SELV Philips LED Power drivers



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10/12/2020