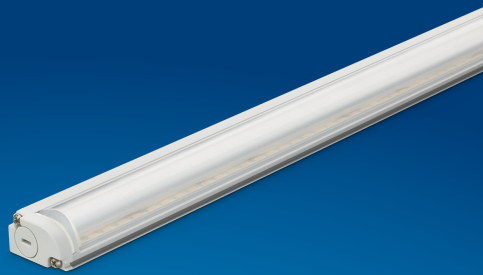


PHILIPS

InteGrade

LED

InteGrade engine UB
value G4



Datasheet

Key features and benefits

- Miniaturized slim design for aesthetic integration
- Premium color consistency up to 5SDCM over lifetime
- Natural merchandise color with specially formulated LEDs up to CRI95
- State of the Art LED diode delivering up to 180 lm/W
- Modules performing up to 137 lm/w meeting SLR (Single Lighting Regulation).
- Optical design for uniform light distribution bringing light right down to the lowest shelf
- Maximum design flexibility with extensive range of engine lengths
- Color temperatures (WWR)
- True System proposition with five-year system warranty with Philips LED Power Drivers
- Reduced power consumption for energy saving
- Long lifetime: >50,000 hours
- Dimmable

January 2024



Ordering data

Commercial product name	EOC	12NC	Box quantity
InteGrade engine UB Va 855mm WWR G4	8718699 742348 00	9290 021 51906	24
InteGrade engine UB Va 1150mm WWR G4	8718699 742409 00	9290 021 52206	24

Key Specifications at Nominal conditions

Name	12NC	Power (W)	Luminous Flux (lm)	Useful Flux (lm)	CRI
InteGrade engine UB Va 855mm WWR G4	9290 021 51906	6.08	730	628	
InteGrade engine UB Va 1150mm WWR G4	9290 021 52206	7.60	926	796	

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T _a (ambient temperature)	25	30	50	°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)

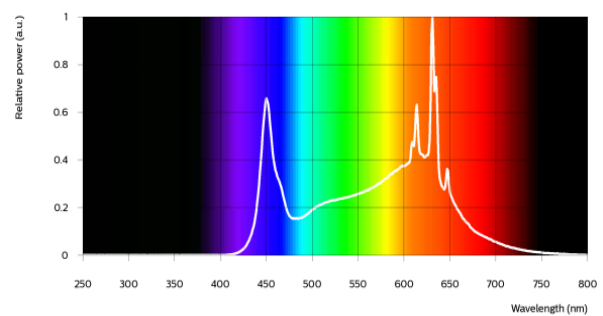
InteGrade engine UB Va 855mm WWR G4

Parameter	Min	Typ	Max	Unit
Luminous flux	675	730	876	lm
Flux within 120° cone		628		lm
Efficacy		120		lm/W
Color coordinates (CIEx, CIEy)		(0.384, 0.326)		-
Color consistency			3	SDCM
R9	-50			
Radiation angle		27		deg
Peak intensity		543		cd
Photobiological safety			RG1 unlimited	

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

Color rendering according to IES TM-30 is 90.

WWR products are special purpose products. They are not intended for in-house use.



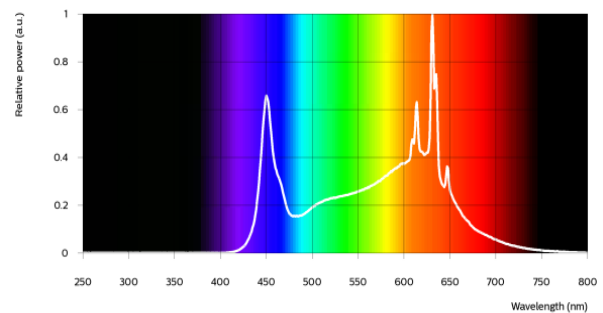
InteGrade engine UB Va 1150mm WWR G4

Parameter	Min	Typ	Max	Unit
Luminous flux	857	926	1111	lm
Flux within 120° cone		796		lm
Efficacy		122		lm/W
Color coordinates (CIEx, CIEy)		(0.384, 0.326)		-
Color consistency			3	SDCM
R9	-50			
Radiation angle		27		deg
Peak intensity		689		cd
Photobiological safety			RG1 unlimited	

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

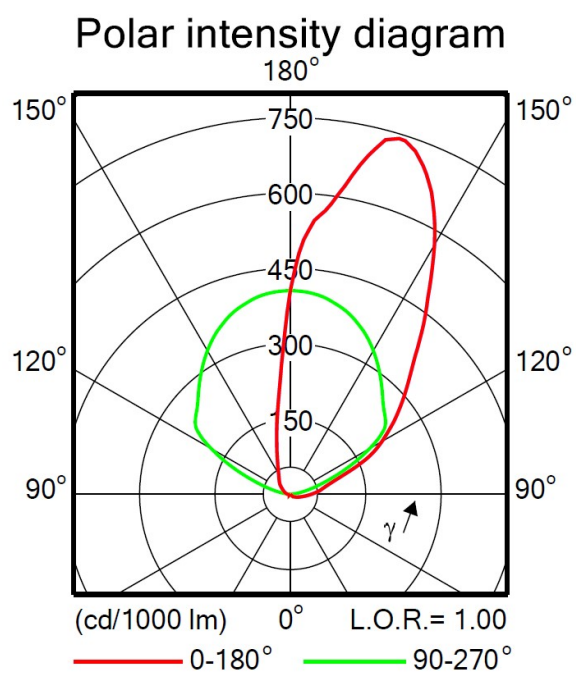
Color rendering according to IES TM-30 is 90.

WWR products are special purpose products. They are not intended for in-house use.



Beam shape

Light distribution, scaled to cd per 1000lm



Electrical characteristics

InteGrade engine UB Va 855mm WWR G4

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		6.1		W = kWh/1000h
Number of modules per chain			4	

InteGrade engine UB Va 1150mm WWR G4

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		7.6		W = kWh/1000h
Number of modules per chain			3	

Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80		
		B50	B20	B10	B50	B20	B10
	Ta -20°C	>100	>100	>100	>100	>100	>100
	Ta 5°C	>100	>100	>100	>100	>100	>100
	Ta 30°C	>100	>100	>100	>100	>100	>100

Lifetime

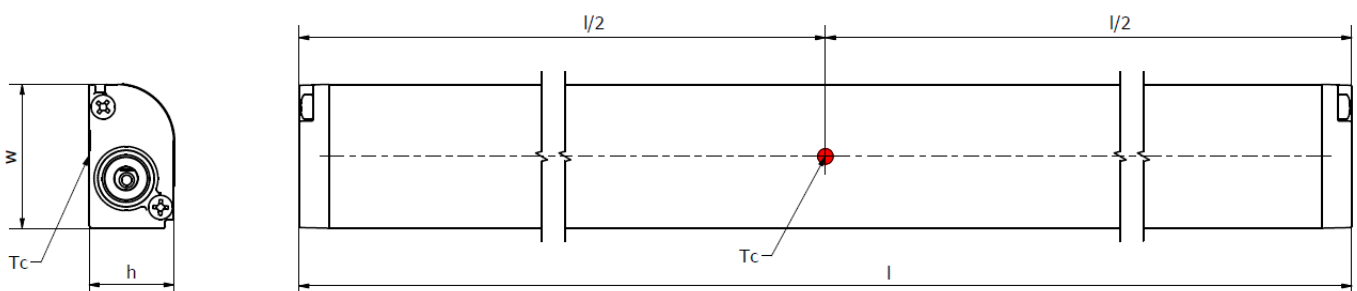
Parameter	Value	Unit
M70F50 nominal	100000	hours
M70F50 life	100000	hours

Mechanical characteristics

InteGrade engine UB Va 855mm WWR G4

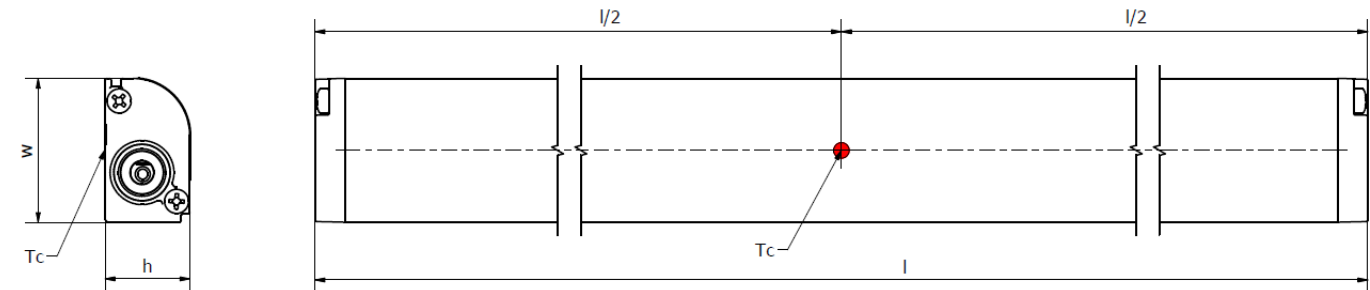
Parameter	Min	Typ	Max	Unit
Length	851	855	859	mm
Width	19.3	19.7	20.1	mm
Height total	12.4	12.9	13.4	mm
Product mass		180		gram

Thermal expansion from -30°C to +30°C is included in the tolerances



Parameter	Min	Typ	Max	Unit
Length	1146	1150	1154	mm
Width	19.3	19.7	20.1	mm
Height total	12.4	12.9	13.4	mm
Product mass		230		gram

Thermal expansion from -30°C to +30°C is included in the tolerances



Absolute ratings

Parameter	Min	Max	Unit
Case temperature (Tc-max)		70	°C
Ambient temperature	-30	50	°C

Application information

Certificates and Standards

- IEC/EN 62031
- 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.250.0-08
- UL 2108
- NSF

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

Do not use in highly polluted areas. Surface mounting only.



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30/01/2024