

PHILIPS

InteGrade

LED

InteGrade Fixture NB
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 118 lm/W
- Uniform light distribution due to its breakthrough optical design
- 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 color temperatures and accessories
- True System proposition with Xitanium Constant Voltage LED power drivers
- Five year system warranty
- Dimmable
- Instant full light

December 2020



Ordering data

Commercial product name	EOC	12NC	Box quantity
InteGrade F NB Va 1500mm 930 PW SD G3	8718696 716120 00	9290 015 72006	6
InteGrade F NB Va 1500mm 940 PW SD G3	8718696 716144 00	9290 015 72206	6
InteGrade F NB Va 1500mm 930 PW CTR G3	8718696 716205 00	9290 015 72106	6
InteGrade F NB Va 1500mm 940 PW CTR G3	8718696 716229 00	9290 015 72306	6

Key Specifications at Nominal conditions

Name	12NC	Power (W)	Luminous Flux (lm)	Flux 120° cone (lm)	CRI
InteGrade F NB Va 1500mm 930 PW SD G3	9290 015 72006	11.0	1230		90
InteGrade F NB Va 1500mm 940 PW SD G3	9290 015 72206	11.0	1300		90
InteGrade F NB Va 1500mm 930 PW CTR G3	9290 015 72106	22.0	2460		90
InteGrade F NB Va 1500mm 940 PW CTR G3	9290 015 72306	22.0	2600		90

Module temperatures

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

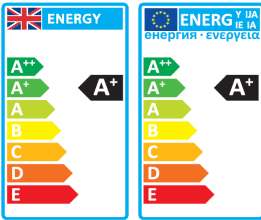
* Nominal value at which typical performance is specified

** Value at which life time is specified

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

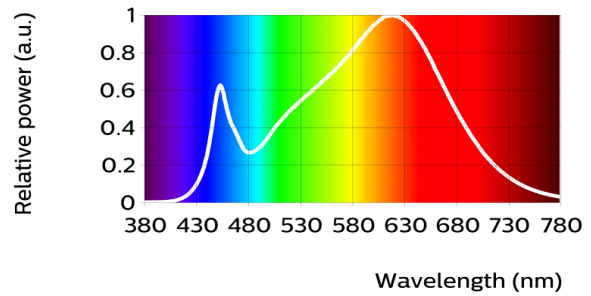
Optical characteristics - table per color (CCT)

InteGrade F NB Va 1500mm 930 PW SD G3

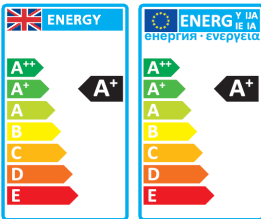
Parameter		Min	Typ	Max	Unit
Luminous flux		984	1230	1476	lm
Correlated color temperature (CCT)			3000		K
Color coordinates (CIEx, CIEy)			(0.423, 0.388)		-
Color consistency				5	SDCM
CRI		90	93		
Photobiological safety				RG1 unlimited	

R9 of 60, typical value

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

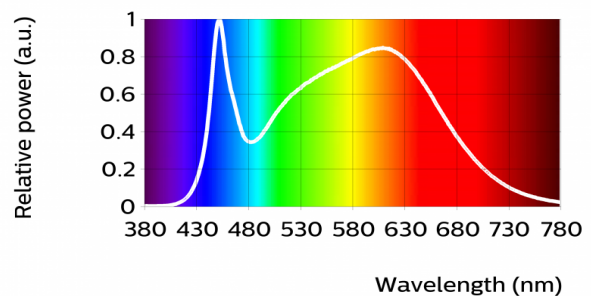


InteGrade F NB Va 1500mm 940 PW SD G3

Parameter		Min	Typ	Max	Unit
Luminous flux		1040	1300	1560	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	

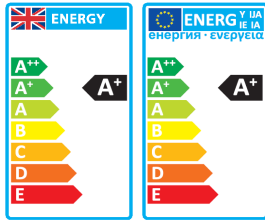
R9 of 60, typical value

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



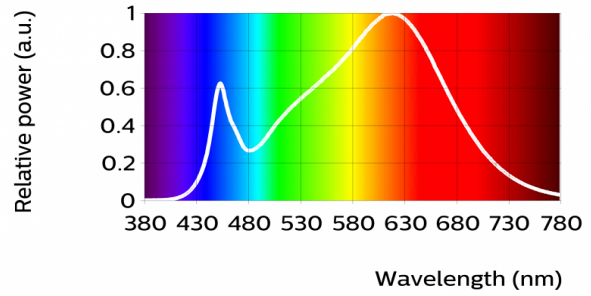
InteGrade F NB Va 1500mm 930 PW CTR G3

Parameter	Min	Typ	Max	Unit
Luminous flux	1968	2460	2952	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	



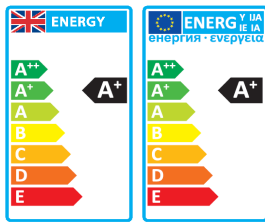
R9 of 60, typical value

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



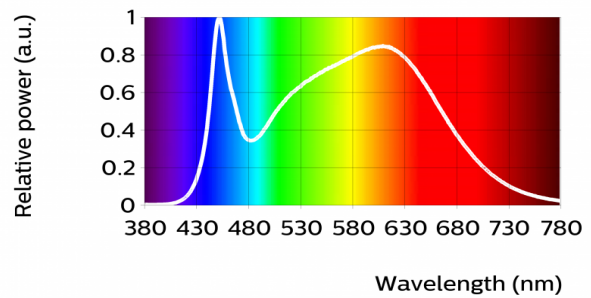
InteGrade F NB Va 1500mm 940 PW CTR G3

Parameter	Min	Typ	Max	Unit
Luminous flux	2080	2600	3120	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	



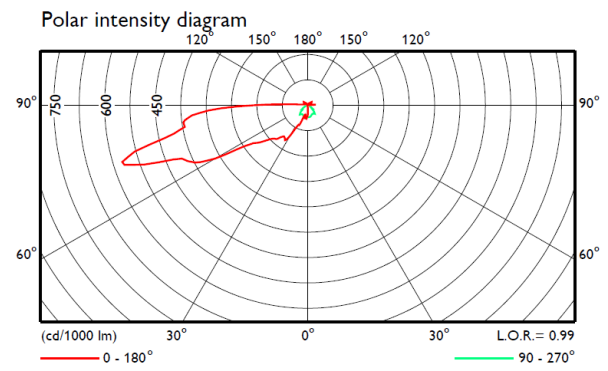
R9 of 60, typical value

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

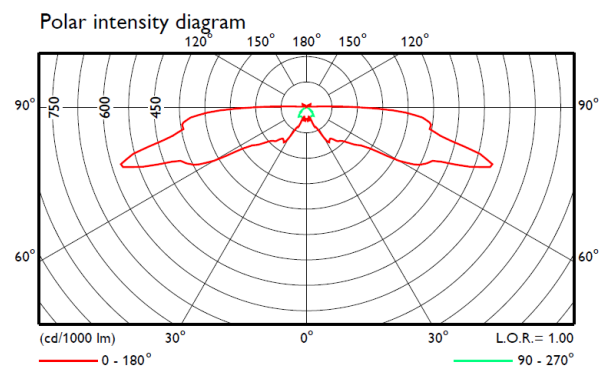


Beam shape

Light distribution of the SD-version



Light distribution of the CTR-version



Electrical characteristics

InteGrade F NB Va 1500mm 930 PW SD G3

InteGrade F NB Va 1500mm 940 PW SD G3

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		11.0		W = kWh/1000h
Number of modules in series per chain			1	
Measurement precision for power +/- 3.3%				

InteGrade F NB Va 1500mm 930 PW CTR G3

InteGrade F NB Va 1500mm 940 PW CTR G3

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		22.0		W = kWh/1000h
Number of modules in series per chain			1	
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	62	61	60
	Ta 30°C	73	71	70	45	44	44

Lifetime

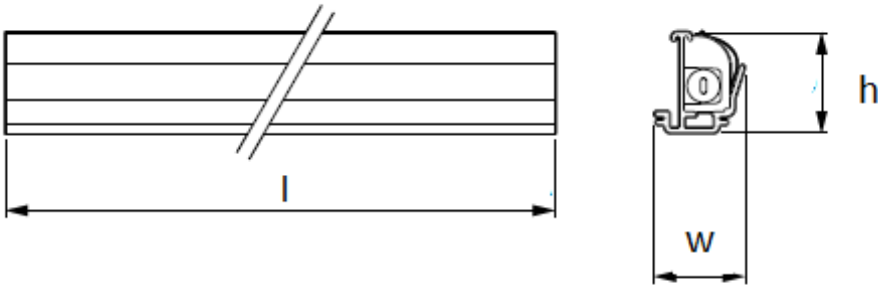
Parameter	Value	Unit
M70F50 nominal	78000	hours
M70F50 life	60000	hours

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

Mechanical characteristics

InteGrade F NB Va 1500mm 930 PW SD G3
 InteGrade F NB Va 1500mm 940 PW SD G3

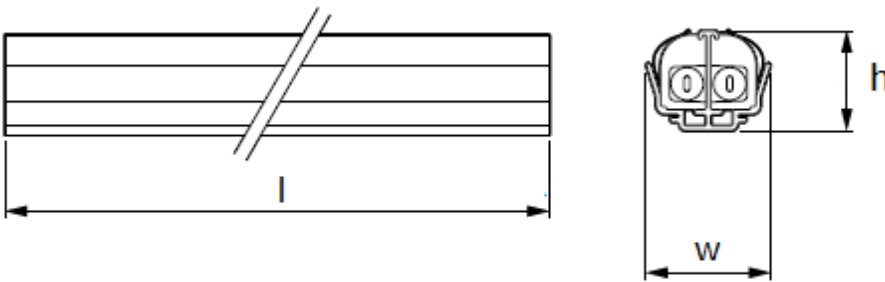
Parameter	Min	Typ	Max	Unit
Length		1500		mm
Width		22		mm
Height		24.8		mm
Product mass		1100		gram



SD (side)

InteGrade F NB Va 1500mm 930 PW CTR G3
 InteGrade F NB Va 1500mm 940 PW CTR G3

Parameter	Min	Typ	Max	Unit
Length		1500		mm
Width		31		mm
Height		24.8		mm
Product mass		1100		gram



CTR (center)

Absolute ratings

Parameter	Min	Max	Unit
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

IEC 60598-1

ENEC

IEC/EN 61347-2-13 (Relevant clauses)

Relevant clauses of IEC/EN 60335-1

Annex BB of IEC/EN 60335-2-89

Annex CC of IEC/EN 60335-2-24

NSF

UL 2108

CSA C22.2 No.9.0-96

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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