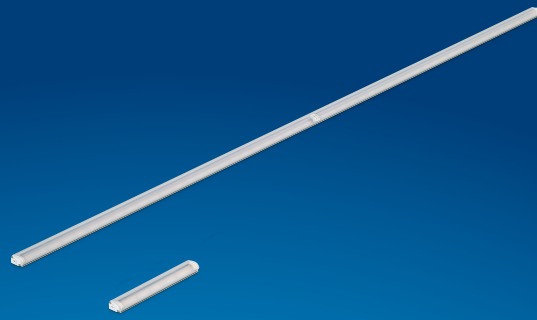


PHILIPS

InteGrade

LED

InteGrade engine NB
vision 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 114 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 engine lengths, color temperatures and accessories
- True System proposition with Xitanium Constant Voltage LED power drivers
- Five year system warranty

June 2017

Ordering data

Commercial product name	EOC	12NC	Box quantity
InteGrade engine NB Vi 140mm 930 PW G3	8718696 758250 00	9290 016 05406	24
InteGrade engine NB Vi 140mm 940 PW G3	8718696 758274 00	9290 016 05506	24
InteGrade engine NB Vi 1430mm 930 PW G3	8718696 715581 00	9290 015 71706	24
InteGrade engine NB Vi 1430mm 940 PW G3	8718696 715604 00	9290 015 71806	24

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

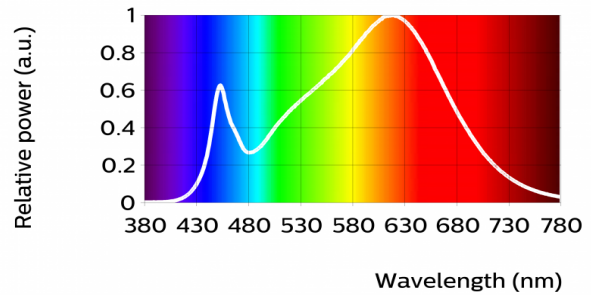
Optical characteristics - table per color (CCT)

InteGrade engine NB Vi 140mm 930 PW G3

Parameter	Min	Typ	Max	Unit
Luminous flux	224	280	336	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.423, 0.387)		-
Color consistency			5	SDCM
CRI	90	93		
Photobiological safety			RG1	
Energy efficiency label		A++		

R9 of 60, typical value

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

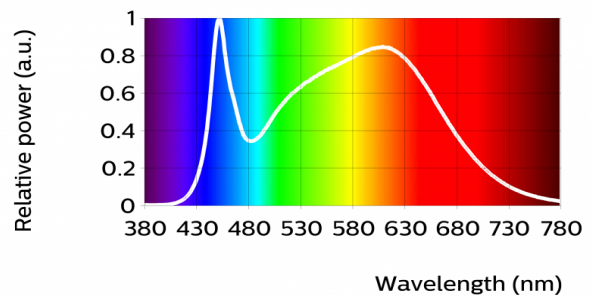


InteGrade engine NB Vi 140mm 940 PW G3

Parameter	Min	Typ	Max	Unit
Luminous flux	240	300	360	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	
Energy efficiency label		A++		

R9 of 60, typical value

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

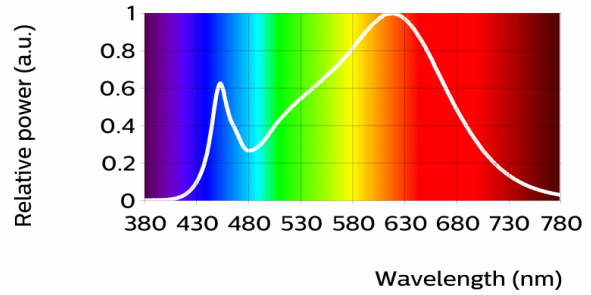


InteGrade engine NB Vi 1430mm 930 PW G3

Parameter	Min	Typ	Max	Unit
Luminous flux	2280	2850	3420	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.423, 0.387)		-
Color consistency			5	SDCM
CRI	90	93		
Photobiological safety			RG1	
Energy efficiency label		A+		

R9 of 60, typical value

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

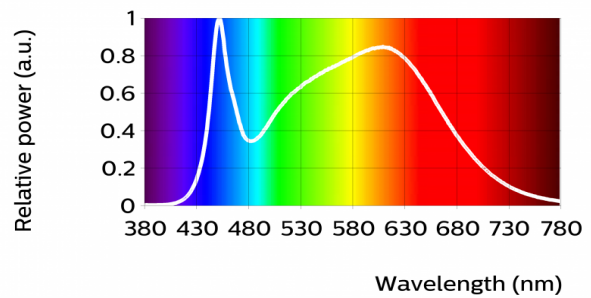


InteGrade engine NB Vi 1430mm 940 PW G3

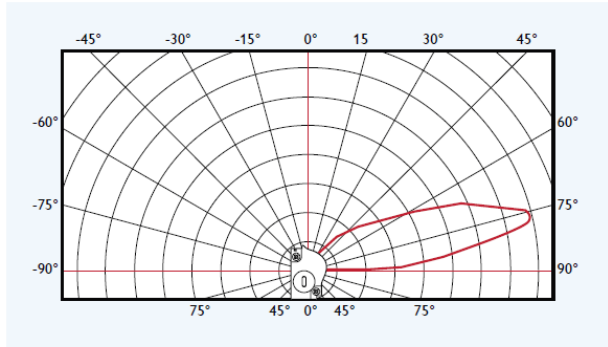
Parameter	Min	Typ	Max	Unit
Luminous flux	2480	3100	3720	lm
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.375, 0.366)		-
Color consistency			5	SDCM
CRI	90	93		
Photobiological safety			RG1	
Energy efficiency label		A+		

R9 of 60, typical value

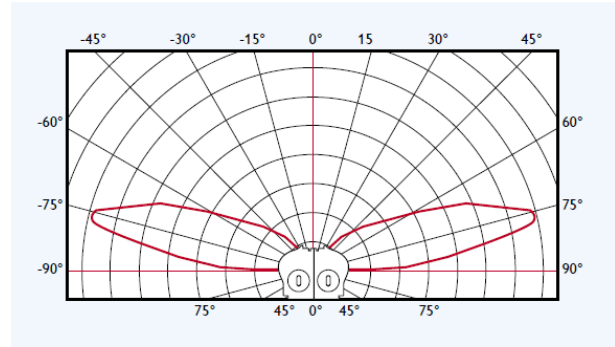
Measurement precision for flux +/- 5%, for efficacy +/- 6%, for x, y +/- 0.005, for CRI +/- 1.5



Beam shape



InterGrade LED fixture SD (for edges)



InterGrade LED fixture CTR (for center)

Electrical characteristics

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

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

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		2.7		W
Number of modules in series per chain			15	
Measurement precision for power +/- 3.3%				

[InteGrade engine NB Vi 1430mm 930 PW G3](#)

[InteGrade engine NB Vi 1430mm 940 PW G3](#)

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		27.2		W
Number of modules in series per chain			1	
Measurement precision for power +/- 3.3%				

Lumen maintenance

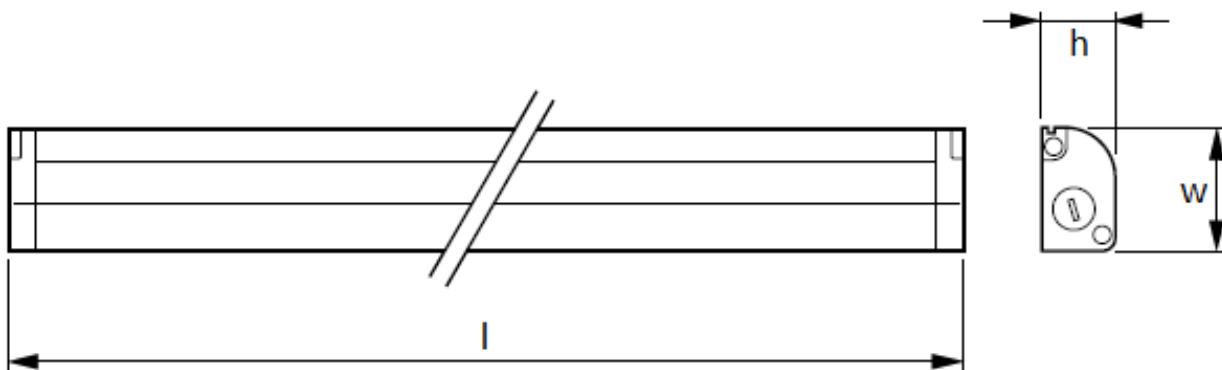
Operation point	Lumen maintenance x 1000 hours	L70			L80		
		B50	B20	B10	B50	B20	B10
Ta -20°C		>75	>75	>75	>75	>75	>75
Ta 5°C		>75	>75	>75	52	51	51
Ta 30°C		63	62	61	39	38	38

Mechanical characteristics

InteGrade engine NB Vi 140mm 930 PW G3

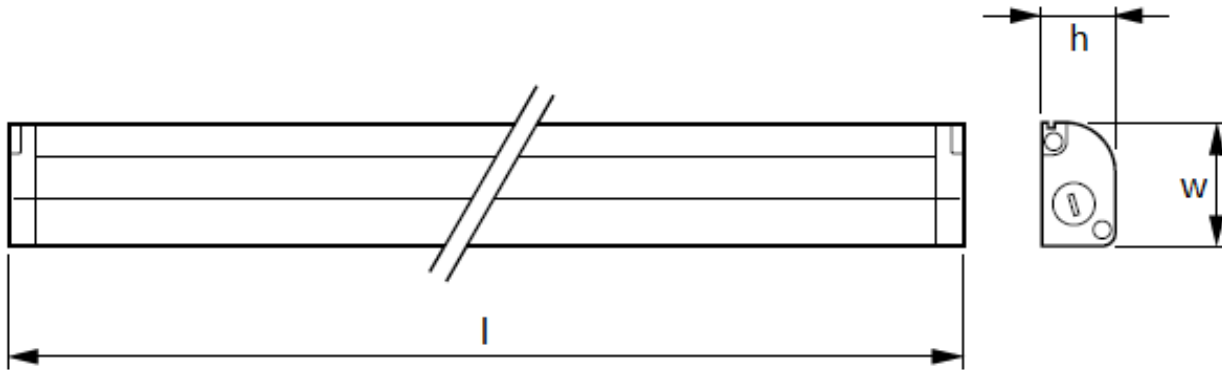
InteGrade engine NB Vi 140mm 940 PW G3

Parameter	Min	Typ	Max	Unit
Length		140		mm
Width		18.5		mm
Height		11		mm



InteGrade engine NB Vi 1430mm 930 PW G3
 InteGrade engine NB Vi 1430mm 940 PW G3

Parameter	Min	Typ	Max	Unit
Length		1430		mm
Width		18.5		mm
Height		11		mm



Absolute ratings

Parameter	Min	Typ	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 62471
 IEC/EN 62031
 Relevant clauses of IEC/EN 60335-1
 Relevant clauses of IEC/EN 60335-2-24
 Relevant clauses of IEC/EN 60335-2-89
 CSA C22.2 No.9
 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 Philips LED Power drivers



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06/2017