

PHILIPS

InteGrade

LED

InteGrade engine NB
Value G5



Datasheet

Key features and benefits

- Miniaturized slim design for aesthetic integration
- Premium color consistency up to 5 SDCM over lifetime
- Natural merchandise color with specially formulated LEDs up to CRI95
- Modules performing up to 182 lm/W
- Maximum design flexibility with extensive range of engine lengths
- Color temperatures (3000 PW, 4000 PW, 5600K, 6500K, WWR & Rose)
- Breakthrough optical design for excellent uniformity and best merchandize presentation
- True System proposition with five-year system warranty with Philips LED Power Drivers
- Reduced power consumption for energy saving
- Long lifetime: >100,000 hours
- Dimmable

December 2025



direct



instant

Ordering data

Commercial product name	EOC	12NC	Box quantity
InteGrade engine NB Va 140mm 930 PW G5	8720169 348196 00	9290 039 82306	24
InteGrade engine NB Va 140mm 940 PW G5	8720169 345881 00	9290 039 82406	24
InteGrade engine NB Va 140mm 956 G5	8720169 348073 00	9290 039 79106	24
InteGrade engine NB Va 140mm 965 G5	8720169 345928 00	9290 039 88206	24
InteGrade engine NB Va 140mm WWR G5	8720169 348059 00	9290 039 78806	24
InteGrade engine NB Va 140mm Rose G5	8720169 345942 00	9290 039 90006	24
InteGrade engine NB Va 575mm 930 PW G5	8720169 348592 00	9290 039 82506	24
InteGrade engine NB Va 575mm 940 PW G5	8720169 345980 00	9290 039 82606	24
InteGrade engine NB Va 575mm 956 G5	8720169 348479 00	9290 039 79206	24
InteGrade engine NB Va 575mm WWR G5	8720169 348455 00	9290 039 78906	24
InteGrade engine NB Va 575mm Rose G5	8720169 348738 00	9290 039 90106	24
InteGrade engine NB Va 760mm 940 PW G5	8720169 348998 00	9290 039 88806	24
InteGrade engine NB Va 760mm 956 G5	8720169 348974 00	9290 039 88406	24
InteGrade engine NB Va 855mm 940 PW G5	8720169 350151 00	9290 039 88906	24
InteGrade engine NB Va 855mm 956 G5	8720169 350137 00	9290 039 88506	24
InteGrade engine NB Va 1150mm 930 PW G5	8720169 349278 00	9290 039 82906	24
InteGrade engine NB Va 1150mm 940 PW G5	8720169 346062 00	9290 039 83006	24
InteGrade engine NB Va 1150mm 956 G5	8720169 349490 00	9290 039 88606	24
InteGrade engine NB Va 1150mm WWR G5	8720169 349117 00	9290 039 79406	24
InteGrade engine NB Va 1430mm 930 PW G5	8720169 349612 00	9290 039 82706	24
InteGrade engine NB Va 1430mm 940 PW G5	8720169 346109 00	9290 039 82806	24
InteGrade engine NB Va 1430mm 956 G5	8720169 349599 00	9290 039 79306	24
InteGrade engine NB Va 1430mm 965 G5	8720169 346147 00	9290 039 88306	24
InteGrade engine NB Va 1430mm WWR G5	8720169 349575 00	9290 039 79006	24
InteGrade engine NB Va 1430mm Rose G5	8720169 346185 00	9290 039 90206	24
InteGrade engine NB Va 1570mm 930 PW G5	8720169 349698 00	9290 039 83106	24
InteGrade engine NB Va 1570mm 940 PW G5	8720169 346222 00	9290 039 83206	24
InteGrade engine NB Va 1570mm 956 G5	8720169 349735 00	9290 039 88706	24
InteGrade engine NB Va 1570mm WWR G5	8720169 349674 00	9290 039 79506	24
InteGrade engine NB Va 1660mm 930 PW G5	8720169 349773 00	9290 039 87006	24
InteGrade engine NB Va 1660mm 940 PW G5	8720169 346260 00	9290 039 87106	24
InteGrade engine NB Va 1660mm WWR G5	8720169 349797 00	9290 039 87206	24

EPREL Registration Number

Name	12NC	Light Source 1	Light Source 2	Light Source 3	Light Source 4	Light Source 5
InteGrade engine NB Va 140mm 930 PW G5	9290 039 82306	2461861				
InteGrade engine NB Va 140mm 940 PW G5	9290 039 82406	2461867				
InteGrade engine NB Va 140mm 956 G5	9290 039 79106	2461850				
InteGrade engine NB Va 140mm 965 G5	9290 039 88206	2461856				
InteGrade engine NB Va 140mm WWR G5	9290 039 78806	2461875				
InteGrade engine NB Va 140mm Rose G5	9290 039 90006	2461871				
InteGrade engine NB Va 575mm 930 PW G5	9290 039 82506	2461890				
InteGrade engine NB Va 575mm 940 PW G5	9290 039 82606	2461894				
InteGrade engine NB Va 575mm 956 G5	9290 039 79206	2461884				
InteGrade engine NB Va 575mm WWR G5	9290 039 78906	2461930				
InteGrade engine NB Va 575mm Rose G5	9290 039 90106	2461899				
InteGrade engine NB Va 760mm 940 PW G5	9290 039 88806	2461877	2461880			
InteGrade engine NB Va 760mm 956 G5	9290 039 88406	2461903	2461904			
InteGrade engine NB Va 855mm 940 PW G5	9290 039 88906	2461868	2461898	2461869		
InteGrade engine NB Va 855mm 956 G5	9290 039 88506	2461851	2461885	2461853		
InteGrade engine NB Va 1150mm 930 PW G5	9290 039 82906	2461891	2461892			
InteGrade engine NB Va 1150mm 940 PW G5	9290 039 83006	2461895	2461896			
InteGrade engine NB Va 1150mm 956 G5	9290 039 88606	2461887	2461888			
InteGrade engine NB Va 1150mm WWR G5	9290 039 79406	2461953	2461975			
InteGrade engine NB Va 1430mm 930 PW G5	9290 039 82706	2461863	2461893	2461893	2461865	
InteGrade engine NB Va 1430mm 940 PW G5	9290 039 82806	2461868	2461898	2461898	2461869	
InteGrade engine NB Va 1430mm 956 G5	9290 039 79306	2461851	2461885	2461885	2461853	
InteGrade engine NB Va 1430mm 965 G5	9290 039 88306	2461858	2463737	2463737	2461860	
InteGrade engine NB Va 1430mm WWR G5	9290 039 79006	2461897	2461997	2461997	2461901	
InteGrade engine NB Va 1430mm Rose G5	9290 039 90206	2461872	2461900	2461900	2461913	
InteGrade engine NB Va 1570mm 930 PW G5	9290 039 83106	2461863	2461893	2461866	2461893	2461865
InteGrade engine NB Va 1570mm 940 PW G5	9290 039 83206	2461868	2461898	2461870	2461898	2461869
InteGrade engine NB Va 1570mm 956 G5	9290 039 88706	2461851	2461885	2461855	2461885	2461853
InteGrade engine NB Va 1570mm WWR G5	9290 039 79506	2461897	2461997	2461902	2461997	2461901
InteGrade engine NB Va 1660mm 930 PW G5	9290 039 87006	2461905	2461906	2461866	2461906	2461876
InteGrade engine NB Va 1660mm 940 PW G5	9290 039 87106	2461877	2461878	2461870	2461878	2461880
InteGrade engine NB Va 1660mm WWR G5	9290 039 87206	2461881	2461882	2461902	2461882	2461883

Key Specifications at Nominal conditions

Name	12NC	Power (W)	Luminous Flux (lm)	Useful Flux (lm)	CRI
InteGrade engine NB Va 140mm 930 PW G5	9290 039 82306	0.9	113	104	94
InteGrade engine NB Va 140mm 940 PW G5	9290 039 82406	0.9	121	111	95
InteGrade engine NB Va 140mm 956 G5	9290 039 79106	0.8	120	110	90
InteGrade engine NB Va 140mm 965 G5	9290 039 88206	0.9	127	117	90
InteGrade engine NB Va 140mm WWR G5	9290 039 78806	1.0	126	116	90
InteGrade engine NB Va 140mm Rose G5	9290 039 90006	1.0	131	121	88
InteGrade engine NB Va 575mm 930 PW G5	9290 039 82506	3.6	494	454	94
InteGrade engine NB Va 575mm 940 PW G5	9290 039 82606	3.6	529	487	95
InteGrade engine NB Va 575mm 956 G5	9290 039 79206	3.2	478	440	90
InteGrade engine NB Va 575mm WWR G5	9290 039 78906	3.8	503	463	90
InteGrade engine NB Va 575mm Rose G5	9290 039 90106	4.0	510	469	88
InteGrade engine NB Va 760mm 940 PW G5	9290 039 88806	4.8	704	648	95
InteGrade engine NB Va 760mm 956 G5	9290 039 88406	4.2	638	587	90
InteGrade engine NB Va 855mm 940 PW G5	9290 039 88906	5.4	771	709	95
InteGrade engine NB Va 855mm 956 G5	9290 039 88506	4.8	718	661	90
InteGrade engine NB Va 1150mm 930 PW G5	9290 039 82906	7.2	987	908	94
InteGrade engine NB Va 1150mm 940 PW G5	9290 039 83006	7.2	1058	973	95
InteGrade engine NB Va 1150mm 956 G5	9290 039 88606	6.4	956	880	90
InteGrade engine NB Va 1150mm WWR G5	9290 039 79406	7.6	1006	926	90
InteGrade engine NB Va 1430mm 930 PW G5	9290 039 82706	9.0	1213	1116	94
InteGrade engine NB Va 1430mm 940 PW G5	9290 039 82806	9.0	1300	1196	95
InteGrade engine NB Va 1430mm 956 G5	9290 039 79306	8.0	1196	1100	90
InteGrade engine NB Va 1430mm 965 G5	9290 039 88306	8.6	1278	1176	90
InteGrade engine NB Va 1430mm WWR G5	9290 039 79006	9.6	1258	1157	90
InteGrade engine NB Va 1430mm Rose G5	9290 039 90206	10.0	1281	1179	88
InteGrade engine NB Va 1570mm 930 PW G5	9290 039 83106	9.9	1326	1220	94
InteGrade engine NB Va 1570mm 940 PW G5	9290 039 83206	9.9	1421	1307	95
InteGrade engine NB Va 1570mm 956 G5	9290 039 88706	8.8	1316	1211	90
InteGrade engine NB Va 1570mm WWR G5	9290 039 79506	10.6	1384	1273	90
InteGrade engine NB Va 1660mm 930 PW G5	9290 039 87006	10.5	1427	1313	94
InteGrade engine NB Va 1660mm 940 PW G5	9290 039 87106	10.5	1529	1407	95
InteGrade engine NB Va 1660mm WWR G5	9290 039 87206	11.0	1468	1351	90

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T _a (ambient temperature)	25	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 and electrical characteristics

[InteGrade engine NB Va 140mm 930 PW G5](#)

[InteGrade engine NB Va 140mm 940 PW G5](#)

[InteGrade engine NB Va 140mm 956 G5](#)

[InteGrade engine NB Va 140mm 965 G5](#)

[InteGrade engine NB Va 140mm WWR G5](#)

[InteGrade engine NB Va 140mm Rose G5](#)

CCT	3000K PW	4000K PW	5600K	6500K	WWR	2200K Rose	Unit
Average Luminous flux (tolerance -9% + 22%)	113	121	120	127	126	131	lm
Flux within 120° cone	104	111	110	117	116	121	lm
Average Efficacy	126	134	150	141	126	119	lm/W
Max. Efficacy	153	158	180	169	150	152	lm/W
Color consistency	3	3	5	5	3	3	SDCM
Color coordinates (CIEx, CIEy)	0.424, 0.386	0.377, 0.365	0.335, 0.350	0.314, 0.328	0.390, 0.331	0.478, 0.382	
Min. CRI	94	95	90	90	90	88	
Min. R9	65	85	65	80	90	40	
Radiation angle	25	25	25	25	25	25	°
Peak intensity	122	130	129	137	136	141	cd
Max. Photobiological safety	RG1 unlimited	RG1 unlimited					
Input voltage	24	24	24	24	24	24	V
Power consumption	0.9	0.9	0.8	0.9	1.0	1.0	W
Max. # of modules per chain	40	40	40	40	40	40	
Product contains light sources of energy class:	D	D	D	E	not applicable	E	

[InteGrade engine NB Va 575mm 930 PW G5](#)

[InteGrade engine NB Va 575mm 940 PW G5](#)

[InteGrade engine NB Va 575mm 956 G5](#)

[InteGrade engine NB Va 575mm WWR G5](#)

[InteGrade engine NB Va 575mm Rose G5](#)

CCT	3000K PW	4000K PW	5600K	WWR	2200K Rose	Unit
Average Luminous flux (tolerance -9% + 22%)	494	529	478	503	510	lm
Flux within 120° cone	454	487	440	463	469	lm
Average Efficacy	137	147	149	132	128	lm/W
Max. Efficacy	168	172	179	158	148	lm/W
Color consistency	3	3	5	3	3	SDCM
Color coordinates (CIEx, CIEy)	0.424, 0.386	0.377, 0.365	0.335, 0.350	0.390, 0.331	0.478, 0.382	
Min. CRI	94	95	90	90	88	
Min. R9	65	85	65	90	40	
Radiation angle	25	25	25	25	25	°
Peak intensity	532	570	515	542	549	cd
Max. Photobiological safety	RG1 unlimited	RG1 unlimited	RG1 unlimited	RG1 unlimited	RG1 unlimited	
Input voltage	24	24	24	24	24	V
Power consumption	3.6	3.6	3.2	3.8	4.0	W
Max. # of modules per chain	10	10	10	10	10	
Product contains light sources of energy class:	D	E	D	not applicable	E	

[InteGrade engine NB Va 760mm 940 PW G5](#)

[InteGrade engine NB Va 760mm 956 G5](#)

CCT	4000K PW	5600K	Unit
Average Luminous flux (tolerance -9% + 22%)	704	638	lm
Flux within 120° cone	648	587	lm
Average Efficacy	147	152	lm/W
Max. Efficacy	172	182	lm/W
Color consistency	3	5	SDCM
Color coordinates (CIEx, CIEy)	0.377, 0.365	0.335, 0.350	
Min. CRI	95	90	
Min. R9	85	65	
Radiation angle	25	25	°
Peak intensity	758	687	cd
Max. Photobiological safety	RG1 unlimited	RG1 unlimited	
Input voltage	24	24	V
Power consumption	4.8	4.2	W
Max. # of modules per chain	7	7	
Product contains light sources of energy class:	D	D	

[InteGrade engine NB Va 855mm 940 PW G5](#)

[InteGrade engine NB Va 855mm 956 G5](#)

CCT	4000K PW	5600K	Unit
Average Luminous flux (tolerance -9% + 22%)	771	718	lm
Flux within 120° cone	709	661	lm
Average Efficacy	143	150	lm/W
Max. Efficacy	168	180	lm/W
Color consistency	3	5	SDCM
Color coordinates (CIEx, CIEy)	0.377, 0.365	0.335, 0.350	
Min. CRI	95	90	
Min. R9	85	65	
Radiation angle	25	25	°
Peak intensity	830	773	cd
Max. Photobiological safety	RG1 unlimited	RG1 unlimited	
Input voltage	24	24	V
Power consumption	5.4	4.8	W
Max. # of modules per chain	6	6	
Product contains light sources of energy class:	D	D	

[InteGrade engine NB Va 1150mm 930 PW G5](#)
[InteGrade engine NB Va 1150mm 940 PW G5](#)
[InteGrade engine NB Va 1150mm 956 G5](#)
[InteGrade engine NB Va 1150mm WWR G5](#)

CCT	3000K PW	4000K PW	5600K	WWR	Unit
Average Luminous flux (tolerance -9% + 22%)	987	1058	956	1006	lm
Flux within 120° cone	908	973	880	926	lm
Average Efficacy	137	147	149	132	lm/W
Max. Efficacy	167	172	179	158	lm/W
Color consistency	3	3	5	3	SDCM
Color coordinates (CIEx, CIEy)	0.424, 0.386	0.377, 0.365	0.335, 0.350	0.390, 0.331	
Min. CRI	94	95	90	90	
Min. R9	65	85	65	90	
Radiation angle	25	25	25	25	°
Peak intensity	1063	1139	1030	1083	cd
Max. Photobiological safety	RG1 unlimited	RG1 unlimited	RG1 unlimited	RG1 unlimited	
Input voltage	24	24	24	24	V
Power consumption	7.2	7.2	6.4	7.6	W
Max. # of modules per chain	5	5	4	5	
Product contains light sources of energy class:	D	D	E	not applicable	

[InteGrade engine NB Va 1430mm 930 PW G5](#)
[InteGrade engine NB Va 1430mm 940 PW G5](#)
[InteGrade engine NB Va 1430mm 956 G5](#)
[InteGrade engine NB Va 1430mm 965 G5](#)
[InteGrade engine NB Va 1430mm WWR G5](#)
[InteGrade engine NB Va 1430mm Rose G5](#)

CCT	3000K PW	4000K PW	5600K	6500K	WWR	2200K Rose	Unit
Average Luminous flux (tolerance -9% + 22%)	1213	1300	1196	1278	1258	1281	lm
Flux within 120° cone	1116	1196	1100	1176	1157	1179	lm
Average Efficacy	135	144	150	149	131	126	lm/W
Max. Efficacy	164	170	179	178	156	146	lm/W
Color consistency	3	3	5	5	3	3	SDCM
Color coordinates (CIEx, CIEy)	0.424, 0.386	0.377, 0.365	0.335, 0.350	0.314, 0.328	0.390, 0.331	0.478, 0.382	
Min. CRI	94	95	90	90	90	88	
Min. R9	65	85	65	80	90	40	
Radiation angle	25	25	25	25	25	25	°
Peak intensity	1306	1400	1288	1376	1355	1380	cd
Max. Photobiological safety	RG1 unlimited	RG1 unlimited					
Input voltage	24	24	24	24	24	24	V
Power consumption	9.0	9.0	8.0	8.6	9.6	10.0	W
Max. # of modules per chain	4	4	4	4	4	4	
Product contains light sources of energy class:	D,E	D	D	E	not applicable	E	

[InteGrade engine NB Va 1570mm 930 PW G5](#)
[InteGrade engine NB Va 1570mm 940 PW G5](#)
[InteGrade engine NB Va 1570mm 956 G5](#)
[InteGrade engine NB Va 1570mm WWR G5](#)

CCT	3000K PW	4000K PW	5600K	WWR	Unit
Average Luminous flux (tolerance -9% + 22%)	1326	1421	1316	1384	lm
Flux within 120° cone	1220	1307	1211	1273	lm
Average Efficacy	134	144	150	131	lm/W
Max. Efficacy	163	168	179	156	lm/W
Color consistency	3	3	5	3	SDCM
Color coordinates (CIEx, CIEy)	0.424, 0.386	0.377, 0.365	0.335, 0.350	0.390, 0.331	
Min. CRI	94	95	90	90	
Min. R9	65	85	65	90	
Radiation angle	25	25	25	25	°
Peak intensity	1428	1530	1417	1491	cd
Max. Photobiological safety	RG1 unlimited	RG1 unlimited	RG1 unlimited	RG1 unlimited	
Input voltage	24	24	24	24	V
Power consumption	9.9	9.9	8.8	10.6	W
Max. # of modules per chain	3	3	3	3	
Product contains light sources of energy class:	D,E	D	E	not applicable	

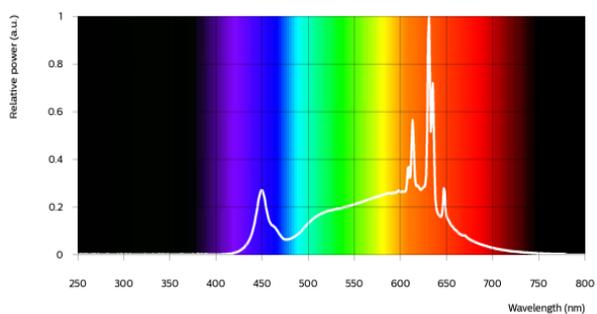
[InteGrade engine NB Va 1660mm 930 PW G5](#)
[InteGrade engine NB Va 1660mm 940 PW G5](#)
[InteGrade engine NB Va 1660mm WWR G5](#)

CCT	3000K PW	4000K PW	WWR	Unit
Average Luminous flux (tolerance -9% + 22%)	1427	1529	1468	lm
Flux within 120° cone	1313	1407	1351	lm
Average Efficacy	136	146	133	lm/W
Max. Efficacy	166	171	159	lm/W
Color consistency	3	3	3	SDCM
Color coordinates (CIEx, CIEy)	0.424, 0.386	0.377, 0.365	0.390, 0.331	
Min. CRI	94	95	90	
Min. R9	65	85	90	
Radiation angle	25	25	25	°
Peak intensity	1537	1647	1581	cd
Max. Photobiological safety	RG1 unlimited	RG1 unlimited	RG1 unlimited	
Input voltage	24	24	24	V
Power consumption	10.5	10.5	11.0	W
Max. # of modules per chain	3	3	3	
Product contains light sources of energy class:	D,E	D	not applicable	

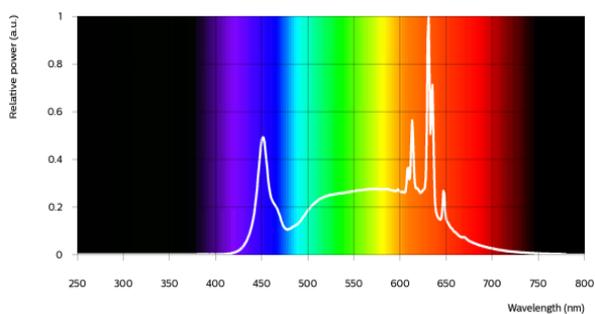
Measurement precision for flux +/- 5%. Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5.
 Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%.

Spectral characteristics

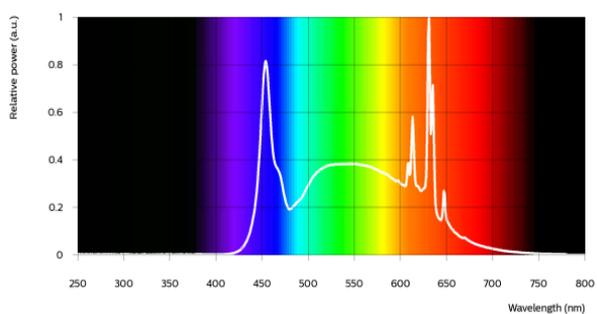
3000K PW



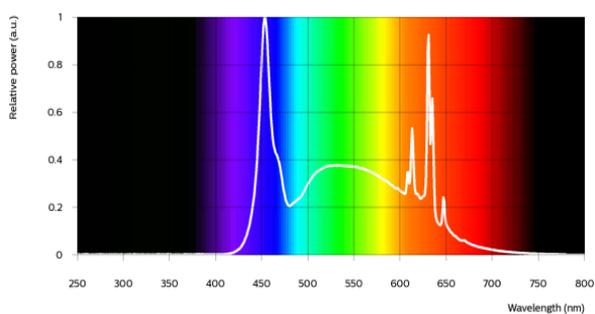
4000K PW



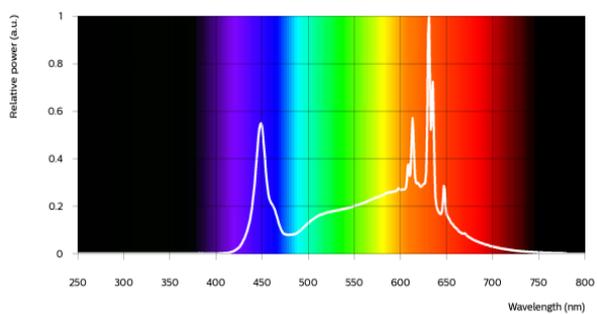
5600K



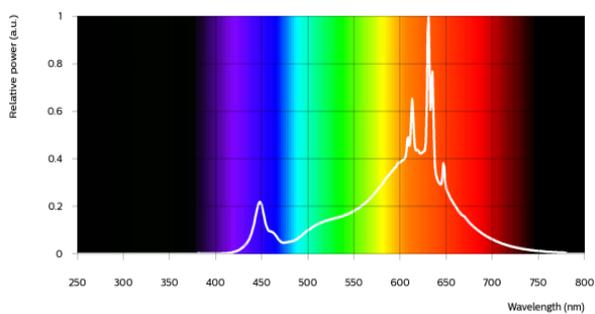
6500K



WWR

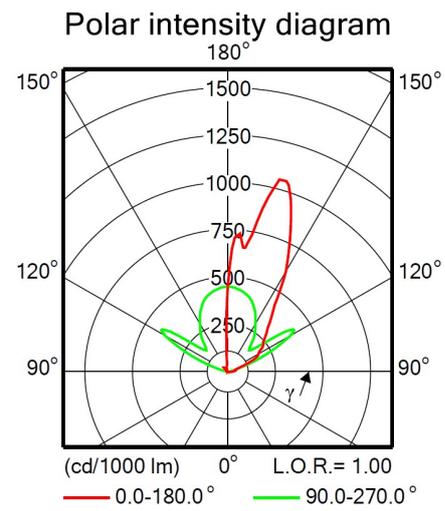


2200K Rose



Beam shape

Light distribution, scaled to cd per 1000lm



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

We use a Philips designed lifetime model, which uses LM80 data as only one of its inputs and assumes a continues operation of the module.

*B20 and B10 values are calculated by means of statistical techniques.

Lifetime

Parameter	Value	Unit
M70F50 nominal	100000	hours

@Ta=30°C

Mechanical characteristics

InteGrade engine NB Va 140mm 930 PW G5

InteGrade engine NB Va 140mm 940 PW G5

InteGrade engine NB Va 140mm 956 G5

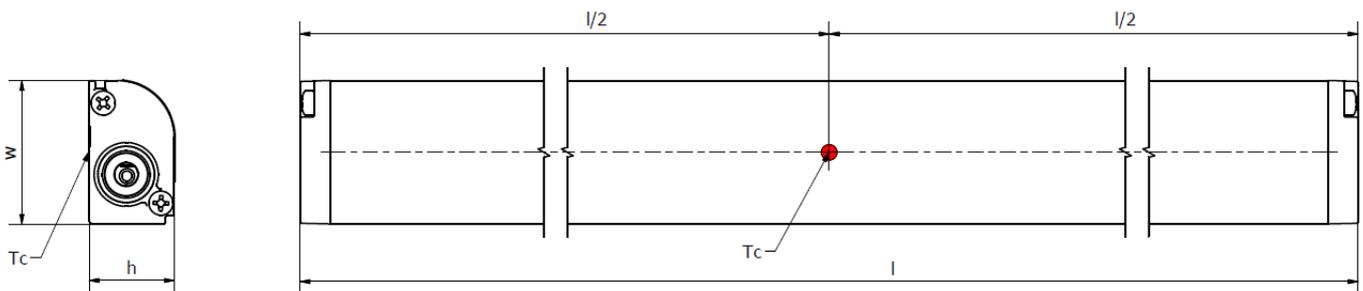
InteGrade engine NB Va 140mm 965 G5

InteGrade engine NB Va 140mm WWR G5

InteGrade engine NB Va 140mm Rose G5

Parameter	Min	Typ	Max	Unit
Length	136	140	144	mm
Width	19.3	19.7	20.1	mm
Height total	12.4	12.9	13.4	mm
Product mass		34		gram

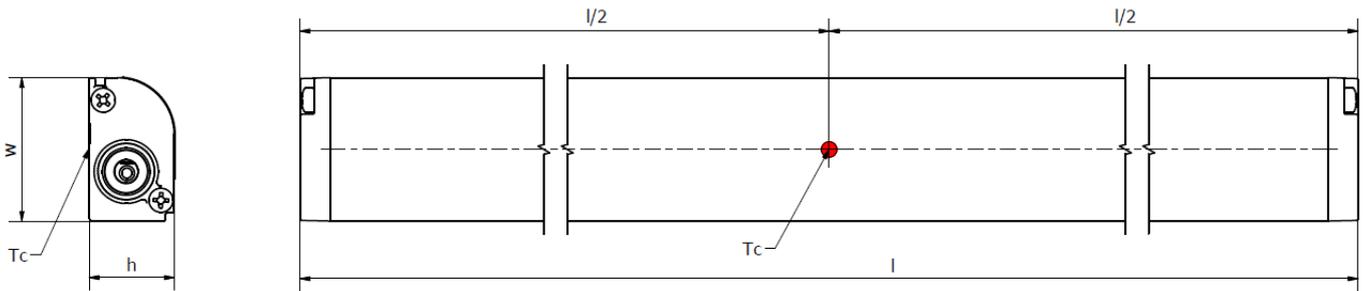
Thermal expansion from -30°C to +30°C is included in the tolerances



InteGrade engine NB Va 575mm 930 PW G5
 InteGrade engine NB Va 575mm 940 PW G5
 InteGrade engine NB Va 575mm 956 G5
 InteGrade engine NB Va 575mm WWR G5
 InteGrade engine NB Va 575mm Rose G5

Parameter	Min	Typ	Max	Unit
Length	571	575	579	mm
Width	19.3	19.7	20.1	mm
Height total	12.4	12.9	13.4	mm
Product mass		130		gram

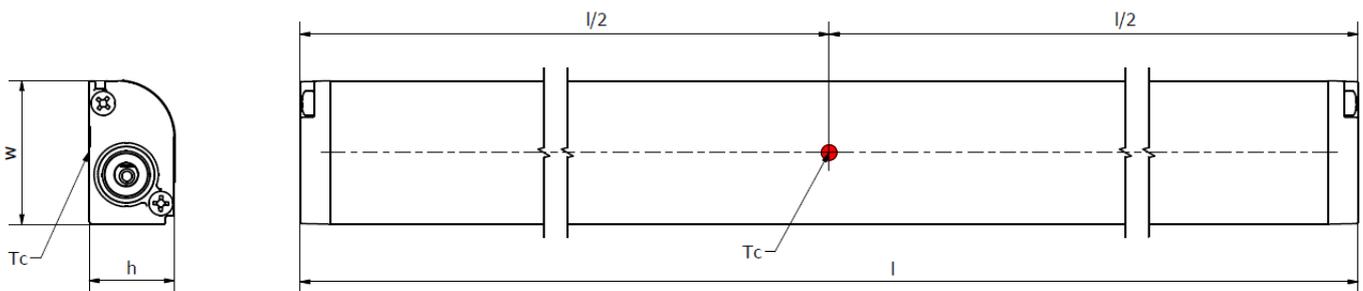
Thermal expansion from -30°C to +30°C is included in the tolerances



InteGrade engine NB Va 760mm 940 PW G5
 InteGrade engine NB Va 760mm 956 G5

Parameter	Min	Typ	Max	Unit
Length	756	760	764	mm
Width	19.3	19.7	20.1	mm
Height total	12.4	12.9	13.4	mm
Product mass		170		gram

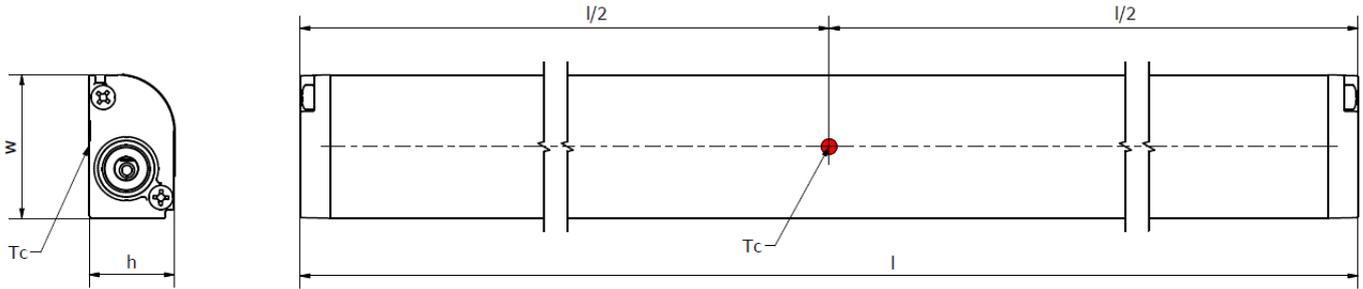
Thermal expansion from -30°C to +30°C is included in the tolerances



InteGrade engine NB Va 855mm 940 PW G5
 InteGrade engine NB Va 855mm 956 G5

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		200		gram

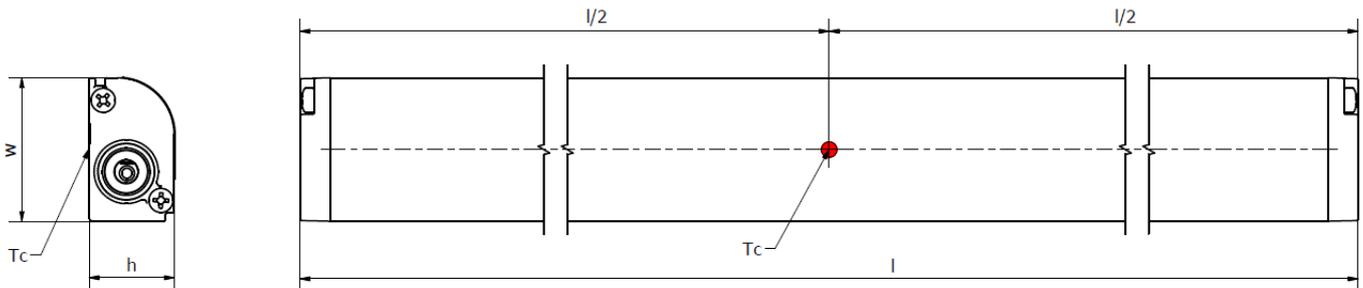
Thermal expansion from -30°C to +30°C is included in the tolerances



InteGrade engine NB Va 1150mm 930 PW G5
 InteGrade engine NB Va 1150mm 940 PW G5
 InteGrade engine NB Va 1150mm 956 G5
 InteGrade engine NB Va 1150mm WWR G5

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		260		gram

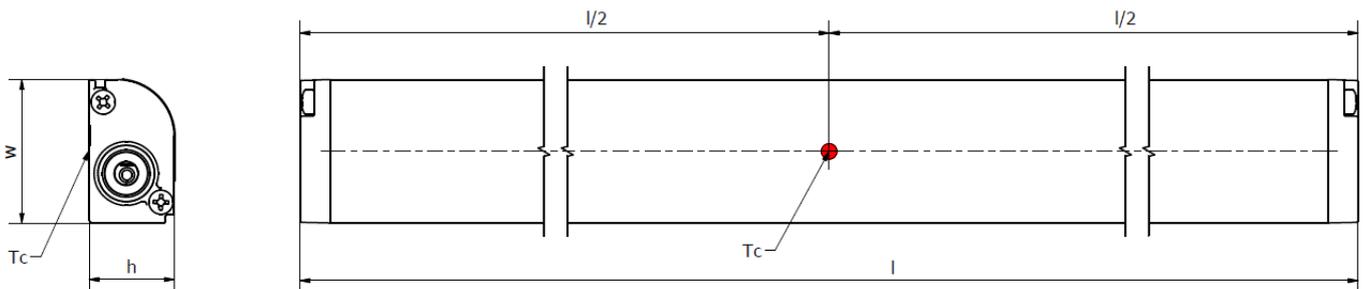
Thermal expansion from -30°C to +30°C is included in the tolerances



InteGrade engine NB Va 1430mm 930 PW G5
 InteGrade engine NB Va 1430mm 940 PW G5
 InteGrade engine NB Va 1430mm 956 G5
 InteGrade engine NB Va 1430mm 965 G5
 InteGrade engine NB Va 1430mm WWR G5
 InteGrade engine NB Va 1430mm Rose G5

Parameter	Min	Typ	Max	Unit
Length	1426	1430	1434	mm
Width	19.3	19.7	20.1	mm
Height total	12.4	12.9	13.4	mm
Product mass		320		gram

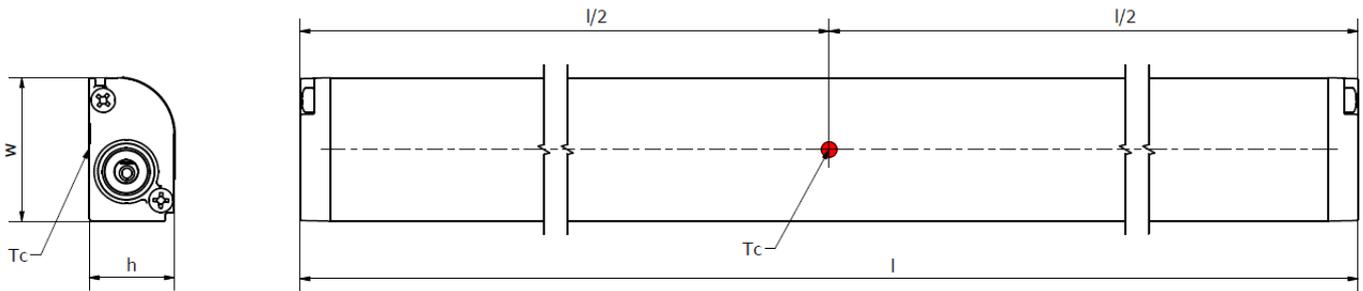
Thermal expansion from -30°C to +30°C is included in the tolerances



InteGrade engine NB Va 1570mm 930 PW G5
 InteGrade engine NB Va 1570mm 940 PW G5
 InteGrade engine NB Va 1570mm 956 G5
 InteGrade engine NB Va 1570mm WWR G5

Parameter	Min	Typ	Max	Unit
Length	1566	1570	1574	mm
Width	19.3	19.7	20.1	mm
Height total	12.4	12.9	13.4	mm
Product mass		350		gram

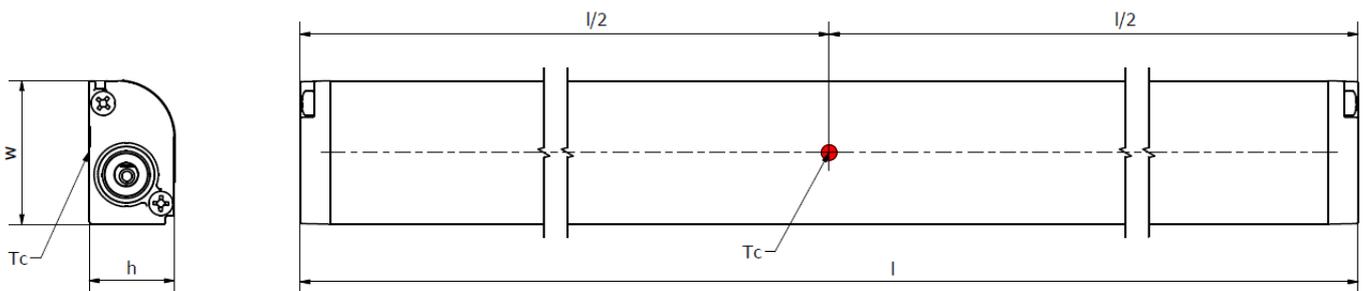
Thermal expansion from -30°C to +30°C is included in the tolerances



InteGrade engine NB Va 1660mm 930 PW G5
 InteGrade engine NB Va 1660mm 940 PW G5
 InteGrade engine NB Va 1660mm WWR G5

Parameter	Min	Typ	Max	Unit
Length	1656	1660	1664	mm
Width	19.3	19.7	20.1	mm
Height total	12.4	12.9	13.4	mm
Product mass		380		gram

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



Absolute ratings

Parameter	Min	Max	Unit
Case temperature (Tc-max)		50	°C
Working voltage		24	V _{dc}
Ambient temperature	-30	30	°C

Application information

Certificates and Standards

IEC/EN 62031

ENEC

Relevant clauses of IEC/EN 60335-1

Relevant clauses of IEC/EN 60335-2-89

Clause 5.3 of IEC/EN 60079-7 as required by clause 22.112 of IEC/EN 60335-2-89

Relevant clauses of IEC/EN 60335-2-24

CSA C22.2 No. 250.2

UL 2108

IK02 (IEC 62262 and IEC 60068-2-75)

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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05/12/2025