

PHILIPS

Retail display
lighting

InteGrade gen 4

Lighting products, brightening faces

Philips LED lighting for retail displays



InteGrade makes merchandise shine for the ultimate shopping experience

Supermarkets look for lighting solutions in their multi-decks, chillers, freezers and counters that enhance the shopping experience. Making products more attractive at the point-of-purchase helps boost sales – in both food and fashion retail. Philips InteGrade gen 4 LED lighting solutions for retail displays make merchandise really shine; products and packaging stand out. In this way, Philips helps retailers deliver the ultimate shopping experience, and at the same time, save on energy.

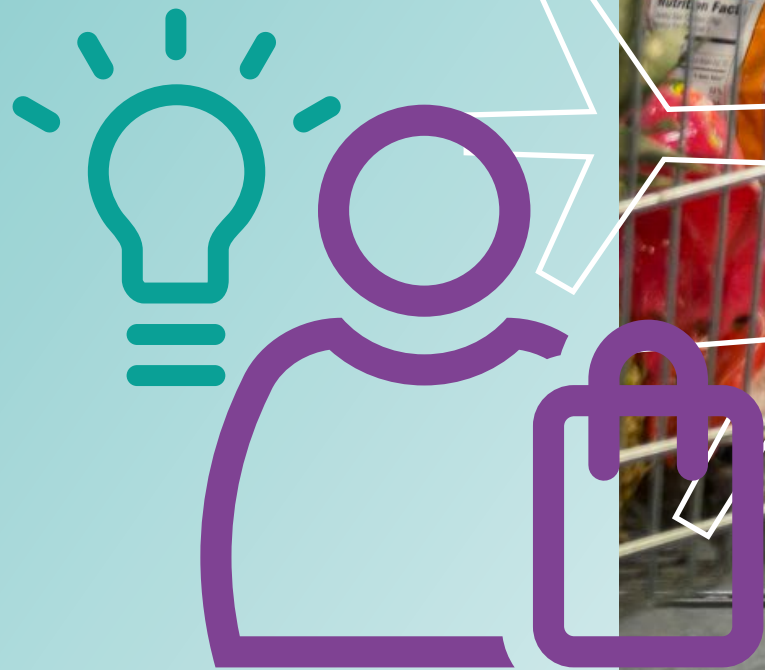


“Lighting adds impact at the point-of-purchase by enhancing product visibility and attractiveness.”



The best lit products sell better

The shopping experience is evolving. Customers want to see what they're buying and enjoy the experience. In cabinets, shelves and freezers, islands and serve-overs – all require lighting that keep colors looking rich and appealing, and make whites look stunningly white. The right lighting can even make glass doors almost disappear, encouraging shoppers to reach in and take a product.





Lighting solutions for canopy, door and shelf lighting

The fourth generation InteGrade LED modules for canopy, door and shelf lighting offer you a choice of:

- Standard colors for maximum energy saving 3000, 3500, 4000, 5600, 6500K and WarmWhiteRed (WWR)
- Premium white for ultimate product attractiveness (3000 and 4000K)
- High flux for extreme product visibility

InteGrade modules are available as high output 'vision' and cost-conscious 'value' types.

Reduce energy consumption with standard colors

The InteGrade gen 4 high efficacy standard colors enable energy saving for a greener store. They have efficacy up to 137 lumens per watt and color temperatures of 3000, 3500, 4000, 5600K, 6500K plus a WarmWhiteRed (WWR) for bringing out the best in meat. The specially formulated LEDs have a CRI of 90 to really show the natural colors of the merchandise.

Superior light quality with premium white

Premium white technology enhances Ra values across the spectrum resulting in enhanced fresh whites and astonishing lively rich colors. The InteGrade gen 4 premium white modules also have a CRI of up to 95, improved color consistency with 3 SDCM and state-of-the-art efficacy of up to 137 lumens per watt.

InteGrade high flux for ultimate product visibility

The high lumen and lux level in combination with superb optics ensure InteGrade high flux delivers exceptionally uniform light distribution in combination with extreme product visibility.

One shop experience

It's also possible to create a unified look and feel in a store by using the ultra-slim modules in combination with premium white spot lighting solutions.

Canopy versions

Canopy versions of both the standard color and premium white gives light distribution aimed towards the lowest shelf thanks to breakthrough optical design. It creates a continuous line of light that doesn't have undesirable hot spots, glare or reflections. InteGrade gen 4 now enables you to use a miniaturized plug-and-play solution for canopies.

Every store strives for a perfect brand image

Stores pay careful attention to how customers perceive their brand. Image is important regardless of whether a food or fashion retailer aims high for discerning customers or wants to attract budget shoppers. To enable you to build display cabinets and shelf lighting that meet the needs of all retailers, we offer the InteGrade gen 4 LED lighting solutions available in premium white for the ultimate product attractiveness, and in standards colors for optimum energy saving.

InteGrade gen 4 takes retail lighting to the next level

With InteGrade gen 4, you can build unique lighting solutions into refrigerated cabinets, shelves, canopies and doors. The LED engines and fixtures come in a range of color temperatures; 3000, 3500, 4000, 5600K, 6500K and WarmWhiteRed (WWR) for the energy saving standard range; and 3000 and 4000K in the premium white range. The sensational premium white (PW) is specially formulated for superb rendering of whites and colors. Revolutionary integrated optics direct the light exactly where it's needed.

Make frozen and chilled merchandise look more attractive

You can dramatically improve merchandize presentation and visibility with InteGrade gen 4 LED display modules. In contrast to conventional fluorescent lighting and many currently available LED solutions that leave a darker area in the center of the door where it matters most, our specially formulated LEDs and optimized optics ensure that light is uniformly distributed over the whole area. There are no hot spots or warm-up time either.



The real cost of refrigeration lighting

Conventional fluorescent lighting generates heat, which makes extra work for refrigeration systems. In turn, low temperatures reduce the effectiveness of fluorescent lighting. The two systems work against each other, meaning more energy is required to maintain the desired light level. This is both an economical and environmental burden, since refrigeration equipment typically accounts for about half a supermarket's total electricity consumption, 25 percent of which is consumed by the cabinet lighting. LED lighting, with its cool running and high energy efficiency overcomes these drawbacks.

Use Philips LED solutions in refrigeration units to:

- Enhance product visibility and contribute to the shopping experience.
- Meet wider corporate responsibility goals by benefiting from state-of-the-art energy consumption reduction
- Reduce maintenance costs thanks to longer life, fewer lamp changes.
- Shrink carbon footprint to as LEDs contain no mercury or lead.

Flexibility for the perfect lighting experience

One portfolio, many solutions

The InteGrade gen 4 and high flux have replaced the successful InteGrade gen 3. The new expanded portfolio gives OEMs even more flexibility to select color temperature, CRI, lumen package and optics to suit specific applications. With its color rendering index (CRI) of up to 95, InteGrade provides a fantastic color experience with enhanced whites and vibrant colors. Color temperatures range from 3000 to 5600K and include premium white (PW) and WarmWhiteRed (WWR) for special applications.

Maximum design flexibility and hassle-free installation

The miniaturized slim design, plug and play simplicity, wide range of engine lengths, color temperatures and accessories give you the flexibility to build a variety of innovative refrigeration systems with the modern aesthetics stores are looking for.

Fewer components per installation

The ultra-thin InteGrade LED engines and fixtures are easily integrated into shelves, door frames, mullions and canopies. Philips also offers Philips Constant Voltage LED drivers. All components come with a five-year warranty.

Design simplicity

Integrate provides standard engine and fixture lengths of 140, 575, 760, 855, 1150, 1180, 1430, 1570 and 1660 mm, to match standard application lengths. This reduces the number of components you need per installation. By combining different lengths, it's possible to illuminate every space. Design simplicity is assured with a range of mounting profiles, mounting clips, power cables and Philips Constant Voltage LED drivers. The accessories fit together for hassle-free installation.

Light where it's needed

When mounted, the engines and fixtures are virtually out of sight, so the customer's attention remains focused on the merchandise. We have optimized optic systems for shelf, canopy and door lighting applications that ensure exceptional light distribution where it's needed. It also produces a continuous line of light without undesirable hot spots, glare or reflections on the merchandise. The result is brighter, more uniform product illumination, both horizontally and vertically. Merchandise looks more appealing.

Exceptionally long lifetime

Philips LEDs have minimal output degradation and color shift over time, so the light stays consistent throughout the long service life. Lifetime is an exceptional 50,000 hours. Note that InteGrade LED high flux gen 4 engines are not standalone and they might need to be integrated with a heatsink for thermal management to achieve the specified lifetime. The cabinet framework can be used for heatsinking. Our design-in service is available to support you.

Key benefits of InteGrade

- Miniaturized slim design for aesthetic integration that ensures attention is focused on the displayed products.
- Enhanced whites and vivid colors thanks to premium white range with a typical CRI of up to 95 and 3 SDCM.
- Natural colors with the standard color range thanks to LED with specially formulated higher than CRI 90 LEDs.
- Revolutionary optics optimized per application to direct the light exactly where you want it.
- Uniform light distribution with narrow beam and uniform beam types for door and canopy lighting.
- Consistent light throughout an extremely long life (50,000 hours) thanks to minimal output degradation and virtually no color shift over time.
- Plug and play solution that enables a continuous line of light, without undesirable hot spots, glare or reflections.
- New mounting clips for InteGrade fixtures enable easy installation and smooth integration for full glass doors.
- State-of-the art energy consumption reduction thanks to new LED technology.



“InteGrade helps you to build innovative refrigeration systems with the style, performance and cost effectiveness retail outlets need.”



“With premium white, I don’t need to choose between light quality or energy efficiency. It offers both in one solution.”

Premium white for retail display lighting

InteGrade gen 4 premium white is specially formulated for ultimate product attractiveness to create the desire of shopping. It is available shelf lighting, and with uniform beam optics for canopy lighting and narrow beam optics for vertical installation in doors.

Exceptional light quality with lower energy consumption

Premium white combines exceptional quality of light with attractive total cost of ownership. We formulated this color for lighting in food retailers, fashion retailers, hospitality and other applications where quality of light is important for the user experience. It lights up the desire of shoppers with a color spectrum optimized for enhanced white performance and astonishing lively rich colors. The state-of-the-art LED technology used for premium white delivers efficacy up to 137 lumens per watt to keep the cost of ownership low.

Consistent look-and-feel throughout the retail outlet

In addition to InteGrade premium white, we also offer Philips Fortimo SLM down- and spotlight modules with premium white for retail applications. This makes it possible for retailers to create a unified shopping experience with accent lighting and cabinet lighting in one unique color. This reinforces brand image, an important aspect for applications where quality of light is an essential part of the shopping experience.





Introducing high flux for refrigerated display lighting

InteGrade gen 4 high flux is designed for ultimate product visibility to let merchandize shine even through the glass door.

Breathtaking performance

InteGrade high flux LED engines are suitable for chillers with doors and canopy lighting. The high lumen and lux levels in combination with superb optics ensure they have exceptionally uniform light distribution, and deliver a continuous line of light without undesirable hot spots, glare or reflections. InteGrade high flux is now available in premium white to give you the best of both worlds: takes product attractiveness and product visibility to the ultimate level, and stimulate the desire to buy. The superb lumen performance and high lux levels grab the customer's attention even when products are behind glass door. In fact, the light helps make the doors less visible, which is known to be a subconscious barrier for shoppers.





A solution for every chiller and freezer application

Shelf lighting

For horizontally integrated modules for shelf lighting in open and closed cabinets, choose from:

- InteGrade gen 4 (standard color range or premium white range)

Lighting in chillers with doors

The narrow beam versions have extremely small dimensions for integration into doors and mullions where there is limited space to place a lighting solution. The unique optical system directs the light precisely where you want it, thus making optimum use of the light and energy. The modules are suitable for vertically integrated lighting in chillers. Choose from:

- InteGrade narrow beam gen 4 (standard color range or premium white range)
- InteGrade high flux gen 4 (standard color range or premium white range)
- InteGrade fixtures gen 4 (standard color range or premium white range)

Canopy lighting

The high flux and uniform beam modules provide uniform illumination over the full height of cabinet from the canopy. Choose from:

- InteGrade uniform beam gen 4 (standard color range or premium white range)
- InteGrade high flux gen 4 (standard color range or premium white range)



Philips InteGrade LED products

InteGrade LED system gen 4 (premium white range)

InteGrade LED engines have been designed to match the most common application lengths, reducing the number of components needed per installation; yet maintaining the outstanding flexibility that its modular approach offers, enabling the creation of odd size lighting solutions to match every project specification. Thanks to a range of engine lengths, fixtures, accessories like mounting profiles, mounting clips, power cables, and Philips Constant Voltage LED drivers the InteGrade LED system gen 4 offers maximum design flexibility and plug-and-play simplicity to enable a vast variety of innovative systems with style, modernity and functionality according to the needs of the stores.

For shelf lighting
InteGrade engine value premium white gen 4
Product specification

Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade engine Va 140mm 930 PW G4	0,77	85		93	3000	9290 021 56906
InteGrade engine Va 575mm 930 PW G4	3,26	374		93	3000	9290 021 57106
InteGrade engine Va 760mm 930 PW G4	4,34	497		93	3000	9290 021 84906
InteGrade engine Va 855mm 930 PW G4	4,80	544		93	3000	9290 021 57306
InteGrade engine Va 1150mm 930 PW G4	6,52	748		93	4000	9290 021 57506
InteGrade engine Va 140mm 940 PW G4	0,74	91		93	4000	9290 021 57006
InteGrade engine Va 575mm 940 PW G4	3,26	417		93	4000	9290 021 57206
InteGrade engine Va 760mm 940 PW G4	4,22	540		93	4000	9290 021 84806
InteGrade engine Va 855mm 940 PW G4	4,74	599		93	4000	9290 021 57406
InteGrade engine Va 1150mm 940 PW G4	6,52	834		93	4000	9290 021 57606
InteGrade engine Va 1150mm 940 PW G4 HFR	6,00	774		93	4000	9290 021 62206

* Correlated color temperature within 3 SDCM range

InteGrade engine vision premium white gen 4
Product specification

Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade engine Vi 140mm 930 PW G4	1,60	164		94	3000	9290 021 57906
InteGrade engine Vi 575mm 930 PW G4	6,90	703		94	3000	9290 021 58106
InteGrade engine Vi 855mm 930 PW G4	10,1	1030		94	3000	9290 021 58306
InteGrade engine Vi 1150mm 930 PW G4	13,8	1406		94	3000	9290 021 58506
InteGrade engine Vi 140mm 940 PW G4	1,60	183		94	4000	9290 021 58006
InteGrade engine Vi 575mm 940 PW G4	6,90	784		94	4000	9290 021 58206
InteGrade engine Vi 855mm 940 PW G4	10,1	1149		94	4000	92900 21 58406
InteGrade engine Vi 1150mm 940 PW G4	13,8	1568		94	4000	9290 021 58606

* Correlated color temperature within 3 SDCM range

For canopy lighting
InteGrade engine uniform beam value premium white gen 4
Product specification

Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade engine UB Va 855mm 930 PW G4	7,83	939	808	94	3000	9290 021 59706
InteGrade engine UB Va 1150mm 930 PW G4	10,0	1221	1050	94	3000	9290 021 59906
InteGrade engine UB Va 855mm 940 PW G4	7,78	1045	899	94	4000	9290 021 59806
InteGrade engine UB Va 1150mm 940 PW G4	9,92	1357	1167	94	4000	9290 021 60006
InteGrade engine UB Va 1150mm 940 PW G4 HFR	7,96	1084	932	94	4000	9290 021 62106

* Correlated color temperature within 3 SDCM range

InteGrade engine uniform beam vision premium white gen 4
Product specification

Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade engine UB Vi 140mm 930 PW G4	2,38	252	217	94	3000	9290 021 60106
InteGrade engine UB Vi 575mm 930 PW G4	9,50	1011	869	94	3000	9290 021 60306
InteGrade engine UB Vi 760mm 930 PW G4	12,4	1316	1132	94	3000	9290 021 85606
InteGrade engine UB Vi 855mm 930 PW G4	14,3	1514	1302	94	3000	9290 021 60506
InteGrade engine UB Vi 1150mm 930 PW G4	19,0	2021	1738	94	3000	9290 021 60706
InteGrade engine UB Vi 140mm 940 PW G4	2,39	282	243	94	4000	9290 021 60206
InteGrade engine UB Vi 575mm 940 PW G4	9,29	1102	948	94	4000	9290 021 60406
InteGrade engine UB Vi 760mm 940 PW G4	12,2	1446	1244	94	4000	9290 021 85506
InteGrade engine UB Vi 855mm 940 PW G4	14,1	1667	1434	94	4000	9290 021 60606
InteGrade engine UB Vi 1150mm 940 PW G4	18,6	2205	1896	94	4000	9290 021 60806

*Correlated color temperature within 3 SDCM range

For chillers with doors

InteGrade engine narrow beam value premium white gen 4

Product specification



Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade engine NB Va 140mm 930 PW G4	1,03	111	102	95	3000	9290 021 58706
InteGrade engine NB Va 575mm 930 PW G4	4,47	503	463	95	3000	9290 021 58906
InteGrade engine NB Va 1150mm 930 PW G4	8,94	1006	926	95	3000	9290 021 59306
InteGrade engine NB Va 1430mm 930 PW G4	11,0	1228	1130	95	3000	9290 021 59106
InteGrade engine NB Va 1570mm 930 PW G4	12,0	1339	1232	95	3000	9290 0215 9506
InteGrade engine NB Va 1660mm 930 PW G4	12,8	1439	1324	95	3000	9290 021 85206
InteGrade engine NB Va 140mm 940 PW G4	1,03	121	111	95	4000	9290 021 58806
InteGrade engine NB Va 575mm 940 PW G4	4,32	529	487	95	4000	9290 021 59006
InteGrade engine NB Va 760mm 940 PW G4	5,76	704	648	95	4000	9290 028 75706
InteGrade engine NB Va 855mm 940 PW G4	6,38	770	708	95	4000	9290 028 75806
InteGrade engine NB Va 1150mm 940 PW G4	8,64	1057	972	95	4000	9290 021 59406
InteGrade engine NB Va 1430mm 940 PW G4	10,7	1299	1195	95	4000	9290 021 59206
InteGrade engine NB Va 1570mm 940 PW G4	11,7	1420	1306	95	4000	9290 021 59606
InteGrade engine NB Va 1660mm 940 PW G4	12,6	1529	1407	95	4000	9290 021 85306

*Correlated color temperature within 3 SDCM range



InteGrade engine narrow beam vision premium white gen 4

Product specification

Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade engine NB Vi 140mm 930 PW G4	2,69	262	241	95	3000	9290 021 61106
InteGrade engine NB Vi 575mm 930 PW G4	11,0	1076	990	95	3000	9290 021 61506
InteGrade engine NB Vi 1150mm 930 PW G4	21,9	2151	1979	95	3000	9290 021 61706
InteGrade engine NB Vi 1430mm 930 PW G4	27,3	2676	2462	95	3000	9290 021 61306
InteGrade engine NB Vi 1570mm 930 PW G4	30,0	2938	2703	95	3000	9290 021 61906
InteGrade engine NB Vi 1660mm 930 PW G4	31,8	3112	2863	95	3000	9290 021 85906
InteGrade engine NB Vi 140mm 940 PW G4	2,69	285	262	95	4000	9290 021 61206
InteGrade engine NB Vi 575mm 940 PW G4	11,0	1169	1075	95	4000	9290 021 61606
InteGrade engine NB Vi 760mm 940 PW G4	14,5	1549	1425	95	4000	9290 028 76406
InteGrade engine NB Vi 855mm 940 PW G4	16,3	1739	1600	95	4000	9290 028 76506
InteGrade engine NB Vi 1150mm 940 PW G4	21,9	2338	2151	95	4000	9290 021 61806
InteGrade engine NB Vi 1430mm 940 PW G4	27,3	2908	2675	95	4000	9290 021 61406
InteGrade engine NB Vi 1570mm 940 PW G4	30,0	3193	2938	95	4000	9290 021 62006
InteGrade engine NB Vi 1660mm 940 PW G4	31,8	3383	3112	95	4000	9290 021 86006

*Correlated color temperature within 3 SDCM range

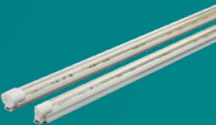
InteGrade fixture narrow beam value premium white gen 4

Product specification



Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade F NB Va 1180mm 930 PW SD G4	8,82	960	835	95	3000	9290 021 89206
InteGrade F NB Va 1180mm 930 PW CTR G4	17,6	1919	1670	95	3000	9290 021 89406
InteGrade F NB Va 1460mm 930 PW SD G4	11,1	1206	1049	95	3000	9290 021 88806
InteGrade F NB Va 1460mm 930 PW CTR G4	22,2	2412	2098	95	3000	9290 021 89006
InteGrade F NB Va 1600mm 930 PW SD G4	12,2	1329	1156	95	3000	9290 021 89606
InteGrade F NB Va 1600mm 930 PW CTR G4	24,4	2658	2312	95	3000	9290 021 89806
InteGrade F NB Va 1180mm 940 PW SD G4	8,82	1043	907	95	4000	9290 021 89306
InteGrade F NB Va 1180mm 940 PW CTR G4	17,6	2086	1815	95	4000	9290 021 89506
InteGrade F NB Va 1460mm 940 PW SD G4	11,0	1304	1134	95	4000	9290 021 88906
InteGrade F NB Va 1460mm 940 PW CTR G4	22,0	2608	2269	95	4000	9290 021 89106
InteGrade F NB Va 1600mm 940 PW SD G4	12,1	1434	1248	95	4000	9290 021 89706
InteGrade F NB Va 1600mm 940 PW CTR G4	24,2	2869	2496	95	4000	9290 021 89906

*Correlated color temperature within 3 SDCM range



InteGrade fixture narrow beam vision premium white gen 4

Product specification

Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade F NB Vi 1180mm 930 PW SD G4	21,0	2271	1976	95	3000	9290 021 90406
InteGrade F NB Vi 1180mm 930 PW CTR G4	42,0	4542	3952	95	3000	9290 021 90606
InteGrade F NB Vi 1460mm 930 PW SD G4	26,2	2827	2459	95	3000	9290 021 90006
InteGrade F NB Vi 1460mm 930 PW CTR G4	52,3	5654	4919	95	3000	9290 021 90206
InteGrade F NB Vi 1600mm 930 PW SD G4	28,7	3105	2701	95	3000	9290 021 90806
InteGrade F NB Vi 1600mm 930 PW CTR G4	57,5	6209	5402	95	3000	9290 021 91006
InteGrade F NB Vi 1180mm 940 PW SD G4	20,9	2455	2136	95	4000	9290 021 90506
InteGrade F NB Vi 1180mm 940 PW CTR G4	41,8	4910	4272	95	4000	9290 021 90706
InteGrade F NB Vi 1460mm 940 PW SD G4	26,3	3086	2685	95	4000	9290 021 90106
InteGrade F NB Vi 1460mm 940 PW CTR G4	52,6	6172	5370	95	4000	9290 021 90306
InteGrade F NB Vi 1600mm 940 PW SD G4	29,0	3401	2959	95	4000	9290 021 90906
InteGrade F NB Vi 1600mm 940 PW CTR G4	57,9	6803	5919	95	4000	9290 021 91106

*Correlated color temperature within 3 SDCM range

For canopy and chillers with doors
InteGrade engine high flux premium white gen 4
Product specification



Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade engine HF 140mm 930 PW G4	4,44	404	372	95	3000	9290 021 62306
InteGrade engine HF 575mm 930 PW G4	17,2	1594	1466	95	3000	9290 021 62506
InteGrade engine HF 760mm 930 PW G4	22,9	2115	1946	95	3000	9290 021 86206
InteGrade engine HF 1150mm 930 PW G4	34,4	3188	2933	95	3000	9290 021 62706
InteGrade engine HF 1570mm 930 PW G4	47,7	4399	4047	95	3000	9290 021 63506
InteGrade engine HF 1660mm 930 PW G4	50,2	4633	4262	95	3000	9290 021 86506
InteGrade engine HF 140mm 940 PW G4	4,06	406	374	95	4000	9290 021 62406
InteGrade engine HF 575mm 940 PW G4	15,6	1587	1460	95	4000	9290 021 62606
InteGrade engine HF 760mm 940 PW G4	20,7	2101	1933	95	4000	9290 021 86306
InteGrade engine HF 1150mm 940 PW G4	31,2	3175	2921	95	4000	9290 021 62806
InteGrade engine HF 1570mm 940 PW G4	43,4	4392	4041	95	4000	9290 021 63606
InteGrade engine HF 1660mm 940 PW G4	45,5	4607	4238	95	4000	9290 021 86606

*Correlated color temperature within 3 SDCM range



Philips InteGrade LED products

InteGrade LED system gen 4 (standard color range)

InteGrade LED engines have been designed to match the most common application lengths, reducing the number of components needed per installation; yet maintaining the outstanding flexibility that its modular approach offers, enabling the creation of odd size lighting solutions to match every project specification. Thanks to a range of engine lengths, fixtures, accessories like mounting profiles, mounting clips, power cables, and Philips Constant Voltage LED drivers the InteGrade LED system gen 4 offers maximum design flexibility and plug-and-play simplicity to enable a vast variety of innovative systems with style, modernity and functionality according to the needs of the stores.

For shelf lighting
InteGrade engine value gen 4
Product specification

Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade engine Va 140mm 930 G4	0,72	85		92	3000	929002146906
InteGrade engine Va 575mm 930 G4	3,08	379		92	3000	929002147006
InteGrade engine Va 855mm 930 G4	4,52	549		92	3000	929002147106
InteGrade engine Va 1150mm 930 G4	6,16	759		92	3000	929002147206
InteGrade engine Va 140mm 930 G4 AH	0,23	24		92	3000	929002156606
InteGrade engine Va 575mm 930 G4 AH	0,92	99		92	3000	929002156706
InteGrade engine Va 1150mm 930 G4 AH	1,84	197		92	3000	929002156806
InteGrade engine Va 140mm 935 G4	0,66	80		92	3500	929002154406
InteGrade engine Va 575mm 935 G4	2,81	356		92	3500	929002154506
InteGrade engine Va 855mm 935 G4	4,13	516		92	3500	929002154606
InteGrade engine Va 1150mm 935 G4	5,62	712		92	3500	929002154706
InteGrade engine Va 140mm 940 G4	0,76	93		92	4000	929002147306
InteGrade engine Va 575mm 940 G4	3,36	431		92	4000	929002147406
InteGrade engine Va 855mm 940 G4	4,88	616		92	4000	929002147506
InteGrade engine Va 1150mm 940 G4	6,72	862		92	4000	929002147606
InteGrade engine Va 140mm 956 G4	0,88	109		92	5600	929002148106
InteGrade engine Va 575mm 956 G4	3,36	431		92	5600	929002148206
InteGrade engine Va 760mm 956 G4	4,48	574		92	5600	929002185006
InteGrade engine Va 855mm 956 G4	5,12	648		92	5600	929002148306
InteGrade engine Va 1150mm 956 G4	6,72	862		92	5600	929002148406
InteGrade engine Va 140mm WWR G4	0,65	70				929002147706
InteGrade engine Va 575mm WWR G4	2,73	309				929002147806
InteGrade engine Va 760mm WWR G4	3,58	406				929002185106
InteGrade engine Va 855mm WWR G4	4,03	449				929002147906
InteGrade engine Va 1150mm WWR G4	5,46	618				929002148006

*Correlated color temperature within 5 SDCM range

InteGrade engine vision gen 4
Product specification

Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade engine Vi 140mm 930 G4	1,56	172		92	3000	929002148706
InteGrade engine Vi 575mm 930 G4	6,81	748		92	3000	929002148806
InteGrade engine Vi 855mm 930 G4	9,93	1091		92	3000	929002148906
InteGrade engine Vi 1150mm 930 G4	13,6	1495		92	3000	929002149006
InteGrade engine Vi 140mm 935 G4	1,34	152		92	3500	929002154806
InteGrade engine Vi 575mm 935 G4	5,90	669		92	3500	929002154906
InteGrade engine Vi 855mm 935 G4	8,58	973		92	3500	929002155006
InteGrade engine Vi 1150mm 935 G4	11,8	1339		92	3500	929002155106
InteGrade engine Vi 140mm 940 G4	1,61	183		92	4000	929002149106
InteGrade engine Vi 575mm 940 G4	7,12	810		92	4000	929002149206
InteGrade engine Vi 855mm 940 G4	10,3	1176		92	4000	929002149306
InteGrade engine Vi 1150mm 940 G4	14,2	1619		92	4000	929002149406
InteGrade engine Vi 140mm 956 G4	1,79	204		92	5600	929002149906
InteGrade engine Vi 575mm 956 G4	7,12	810		92	5600	929002150006
InteGrade engine Vi 855mm 956 G4	10,7	1218		92	5600	929002150106
InteGrade engine Vi 1150mm 956 G4	14,2	1619		92	5600	929002150206
InteGrade engine Vi 140mm WWR G4	1,48	151				929002149506
InteGrade engine Vi 575mm WWR G4	6,57	669				929002149606
InteGrade engine Vi 855mm WWR G4	9,53	971				929002149706
InteGrade engine Vi 1150mm WWR G4	13,1	1338				929002149806

*Correlated color temperature within 5 SDCM range

For canopy lighting
InteGrade engine uniform beam value gen 4
Product specification

Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade engine UB Va 855mm 930 G4	7,03	914	786	90	3000	929002151706
InteGrade engine UB Va 1150mm 930 G4	9,10	1200	1032	90	3000	929002152006
InteGrade engine UB Va 855mm 940 G4	7,46	1006	865	90	4000	929002151806
InteGrade engine UB Va 1150mm 940 G4	9,92	1357	1167	90	4000	929002152106
InteGrade engine UB Va 855mm WWR G4	6,08	730				929002151906
InteGrade engine UB Va 1150mm WWR G4	7,60	926				929002152206

*Correlated color temperature within 5 SDCM range

InteGrade engine narrow beam value gen 4

Product specification



Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade engine UB Vi 140mm 930 G4	2,10	241	207	92	3000	929002152306
InteGrade engine UB Vi 575mm 930 G4	8,28	951	818	92	3000	929002152606
InteGrade engine UB Vi 855mm 930 G4	12,5	1432	1232	92	3000	929002152906
InteGrade engine UB Vi 1150mm 930 G4	16,6	1901	1635	92	3000	929002153206
InteGrade engine UB Vi 140mm 940 G4	2,27	269	231	92	4000	929002152406
InteGrade engine UB Vi 575mm 940 G4	9,07	1078	927	92	4000	929002152706
InteGrade engine UB Vi 855mm 940 G4	13,6	1616	1390	92	4000	929002153006
InteGrade engine UB Vi 1150mm 940 G4	18,1	2156	1854	92	4000	929002153306
InteGrade engine UB Vi 140mm WWR G4	1,62	173				929002152506
InteGrade engine UB Vi 575mm WWR G4	6,57	701				929002152806
InteGrade engine UB Vi 760mm WWR G4	8,60	918				929002185806
InteGrade engine UB Vi 855mm WWR G4	9,81	1046				929002153106
InteGrade engine UB Vi 1150mm WWR G4	13,1	1401				929002153406

*Correlated color temperature within 5 SDCM range

For chillers with doors

InteGrade engine narrow beam value gen 4

Product specification



Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade engine NB Va 140mm 930 G4	1,01	127	117	90	3000	929002150306
InteGrade engine NB Va 575mm 930 G4	4,08	498	458	90	3000	929002150406
InteGrade engine NB Va 1430mm 930 G4	10,3	1249	1149	90	3000	929002150506
InteGrade engine NB Va 140mm 940 G4	1,03	130	120	90	4000	929002150606
InteGrade engine NB Va 575mm 940 G4	4,03	531	489	90	4000	929002150706
InteGrade engine NB Va 1430mm 940 G4	10,1	1322	1216	90	4000	929002150806
InteGrade engine NB Va 140mm 956 G4	0,92	120	110	90	5600	929002151206
InteGrade engine NB Va 575mm 956 G4	3,52	478	440	90	5600	929002151306
InteGrade engine NB Va 1430mm 956 G4	8,88	1196	1100	90	5600	929002151406
InteGrade engine NB Va 140mm 965 G4	1,01	127	117	90	6500	929002858906
InteGrade engine NB Va 1430mm 965 G4	9,76	1273	1171	90	6500	929002859006
InteGrade engine NB Va 140mm WWR G4	1,17	126				929002150906
InteGrade engine NB Va 575mm WWR G4	4,47	503				929002151006
InteGrade engine NB Va 1150mm WWR G4	8,94	1006				929002151506
InteGrade engine NB Va 1430mm WWR G4	11,3	1258				929002151106
InteGrade engine NB Va 1570mm WWR G4	12,5	1385				929002151606
InteGrade engine NB Va 1660mm WWR G4	13,1	1466				929002185406

*Correlated color temperature within 5 SDCM range

InteGrade fixture narrow beam value gen 4

Product specification



Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade engine NB Vi 760mm 956 G4	11,3	1357	1248	90	5600	929002875906
InteGrade engine NB Vi 855mm 956 G4	12,5	1502	1382	90	5600	929002876006
InteGrade engine NB Vi 1150mm 956 G4	16,6	2008	1847	90	5600	929002876106
InteGrade engine NB Vi 1430mm 956 G4	20,8	2505	2305	90	5600	929002876206
InteGrade engine NB Vi 1570mm 956 G4	22,9	2754	2534	90	5600	929002876306

*Correlated color temperature within 5 SDCM range

InteGrade fixture narrow beam value gen 4

Product specification



Product name	Power consumption	Lumen	Lumen within 120° cone	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	lm	CRI, typical	K	GPC
InteGrade F NB Va 1460mm 930 SD G4	10,8	1279	1113	90	3000	929002186806
InteGrade F NB Va 1460mm 930 CTR G4	21,6	2558	2225	90	3000	929002186906
InteGrade F NB Va 1460mm 940 SD G4	10,62	1356	1180	90	4000	929002187006
InteGrade F NB Va 1460mm 940 CTR G4	21,24	2712	2359	90	4000	929002187106
InteGrade F NB Va 1460mm 956 SD G4	9,42	1242	1081	90	5600	929002187406
InteGrade F NB Va 1460mm 956 CTR G4	18,84	2484	2161	90	5600	929002187506
InteGrade F NB Va 1600mm 956 CTR G4	20,8	2739	2383		5600	929002876606
InteGrade F NB Va 1600mm 956 SD G4	10,4	1370	1192		5600	929002876706
InteGrade F NB Va 1180mm WWR SD G4	9,34	1018				929002187606
InteGrade F NB Va 1180mm WWR CTR G4	18,68	2037				929002187706
InteGrade F NB Va 1460mm WWR SD G4	11,54	1259				929002187206
InteGrade F NB Va 1460mm WWR CTR G4	23,08	2518				929002187306
InteGrade F NB Va 1600mm WWR SD G4	12,64	1379				929002187806
InteGrade F NB Va 1600mm WWR CTR G4	25,28	2758				929002187906

*Correlated color temperature within 5 SDCM range

For canopy and chillers with doors

InteGrade engine narrow beam value gen 4

Product specification



Product name	Power consumption	Lumen	Color Rendering Index	Correlated Color Temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
InteGrade engine HF 140mm WWR G4	4,14	379	90		929002162906
InteGrade engine HF 575mm WWR G4	16,2	1514	90		929002163006
InteGrade engine HF 760mm WWR G4	21,4	1990	90		929002186406
InteGrade engine HF 1150mm WWR G4	32,5	3028	90		929002163106
InteGrade engine HF 1570mm WWR G4	44,9	4166	90		929002163706
InteGrade engine HF 1660mm WWR G4	46,9	4360	90		929002186706

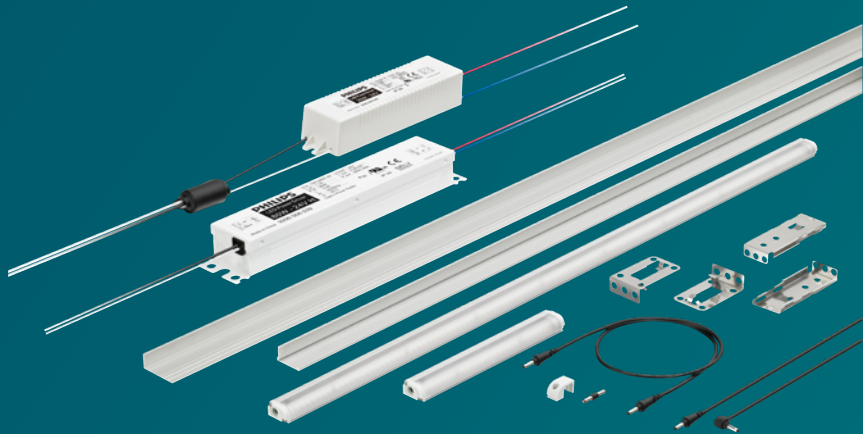
*Correlated color temperature within 5 SDCM range

Plug and play Philips constant voltage driver list	Product code
	(12NC)
LED transformer 60W 24VDC 120V PP	929002106080
LED transformer 60W 24VDC 220-240V PP	929002106280
LED transformer 100W 24VDC 120V PP	929002106180
LED transformer 100W 24VDC 220-240V PP	929002106380
LED transformer 150W 24VDC 220-240V PP	929002106480

Non-plug and play Philips constant voltage drivers	Product code
	(12NC)
LED power driver 20W 24VDC 100-240V	929000654006
LED power driver 80W 24VDC 120-240V	929001669406
LED power driver 100W 24VDC 120-240V	929001669506
LED power driver 150W 24VDC 120-240V	929002101980
LED power driver 240W 24VDC 120-240V	929002102080
LED transformer 20W 24VDC 120-277V	929002105580
LED transformer 40W 24VDC 120-277V	929002105680
LED transformer 60W 24VDC 120-277V	929002105780
LED transformer 60W 24VDC 220-240V	913710032267
LED transformer 100W 24VDC 120-277V	929002105880
LED transformer 120W 24VDC 220-240V	913710032567
LED transformer 150W 24VDC 220-240V	929002105980
Xitanium 77W 100-277V 3.2A XI077C320VO24FNS1M *	929001708113
Xitanium 100W 100-277V 4.1A XI100C41OV024FNS1M*	929000771913
LED driver outdoor 100W 100-240V 24V**	929000485303

* Only for NAM region

** Only for Japan



Accessories	Product code
	(12NC)
Clips	
InteGrade mounting clip shelf arm V2	929000957806
InteGrade engine clip shelf arm G2	929001516006
InteGrade engine mounting clip G2	929001516106
InteGrade mounting clip under shelf	929000643903
InteGrade engine clip magnetic	929001624606
InteGrade mounting clip canopy	929001571106
InteGrade engine clip mullion side	929001624506
InteGrade engine clip mullion center	929001624406
InteGrade mounting clip for T style prof	929000853213
Profiles	
InteGrade profile 875mm(34")	929000643413
InteGrade profile 1175mm(46")	929000643313
InteGrade profile 2000mm(79")	929000654413
InteGrade profile 2000mm(79") F style	929000654313
InteGrade profile 2000mm(79") L style	929000654513
InteGrade profile 2000mm(79") T style CTR G2	929002199506
InteGrade profile 2000mm(79") T style SD G2	929002199506
InteGrade profile 2356mm(93") M style	929000871313
Power cables - to connect engine to driver	
InteGrade power cable 0.7m white	929001625306
InteGrade power cable 1m(39") black	929000641014
InteGrade power cable 2.5m(98") black	929000641114
InteGrade cable 1m(39") black angle	929000644614
InteGrade cable 2.5m(98") black angle	929000644814
InteGrade power cable 1m(39") white	929000645614
InteGrade power cable 1.85m white	929001625206
InteGrade power cable 2.5m(98") white	929000644514
InteGrade cable 1m(39") white angle	929000644714
InteGrade cable 2.5m(98") white angle	929000644914
InteGrade snap-in clip for fixtures	929002199706
InteGrade screw clip T style profile and fixture	929002199806

* For more information please visit the InteGrade LED System Gen 4 accessories section on the OEM technical downloads portal.

Accessories	Product code
	(12NC)
InteGrade power cable 6m white	929001624806
InteGrade spacer cable 113mm white	929001625106
InteGrade spacer cable 0.3m black	929001625006
InteGrade spacer cable 0.5m black	929000645014
InteGrade spacer cable 0.5m white	929000645114
InteGrade spacer cable M 0.7m 5.5c black	929001624706
InteGrade extension cab 1.5m(59")black	929000874413
InteGrade Y cable black	929000874313
Other accessories	
InteGrade engine lock inline	929000643713
InteGrade connector	929000959106
InteGrade magnet for M style profile	929000871413
InteGrade rotational bracket	929000874613

RDL track system	
RDL track	
RDL track 1800mm gr	929002113606
RDL track 1200mm gr	929002113706
RDL track 600mm gr	929002113806
Power cables – to connect the RDL track to the driver	
InteGrade track powercable 1.5m gr	929002113906
InteGrade track powercable 1.5m gr angle	929002114006
Track cables – to connect the engines to the RDL track	
InteGrade track cable M 0.7m gr angle	929002114106
InteGrade track cable 0.7m gr angle	929002114206
InteGrade track cable 0.3m transp angle	929002114306
InteGrade track cable 0.4m transp angle	929002114406
InteGrade track cable 0.5m transp angle	929002114506

* gr = Gray, M = Magnetic, transp = Transparent



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