

A young girl with dark hair in pigtails is smiling brightly. She is holding a large, vibrant red bell pepper in her hands. The background is a blurred grocery store aisle with shelves of products and bright overhead lights.

PHILIPS

Retail display
lighting

InteGrade premium white



Lighting products, brightening faces

Premium white in retail display lighting



“With premium white, white is amazingly white and colors are astonishingly vivid.”

Superior light quality gives merchandize its ultimate appeal

Better presentation makes products look more appealing, creates the ultimate shopping experience and maximizes the impact at the point-of-purchase. The new InteGrade premium white family LED lighting takes product attractiveness to the ultimate level and stimulates the desire to shop. It is designed to maximize product attractiveness through a combination of a superior light quality, excellent light distribution and state-of-the-art efficacy.

Illumination beyond your imagination

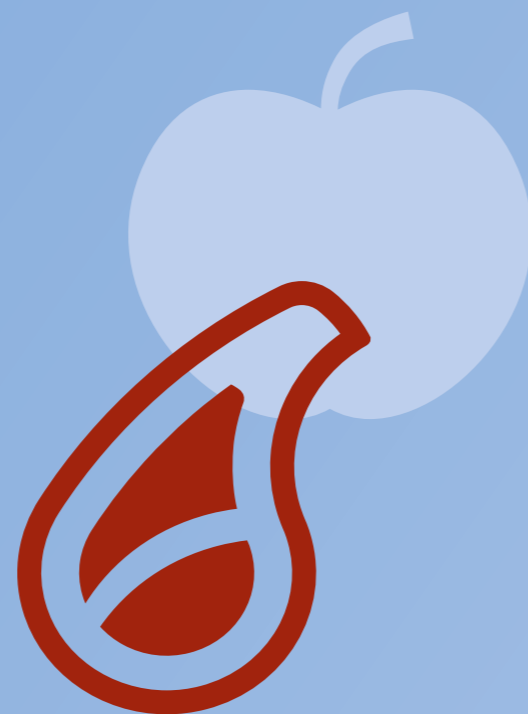
InteGrade premium white enhances whites and delivers astonishingly lively rich colors in chillers, freezers, serve overs and islands in food retail, and shelf lighting in fashion retail. This not only improves product attractiveness and enhances the shopping experience; it also brings economic and environmental benefits relating to energy consumption and cost-efficient maintenance.



The best of both worlds

InteGrade high flux is now available in premium white to combine the best of both worlds: high flux with premium white takes the product visibility and product attractiveness to the ultimate level, and stimulates the desire to buy.

With premium white,
you don't need to
choose between
light quality or
energy efficiency.
It offers both.



Every store strives to reinforce its brand

Food and fashion retailers pay careful attention to how customers perceive their stores. Brand image is important regardless of whether a retailer aims high or attracts budget shoppers. Premium white is for applications where the quality of light and product perception is an important part of the shopping experience.

Step up to InteGrade for retail lighting

InteGrade premium white LED lighting in retail display cabinets make food and packaging look more attractive and appetizing. And in fashion retailing, it gives merchandize the extra appeal of amazing whites and astonishing colors. This new generation enables you to build tailor-made lighting solutions with superior light quality for cabinets, doors, canopies and shelves.

Take color rendering to the next level

The latest InteGrade gen 3 LED engines and fixtures are specially formulated for superior light quality. They take color rendering to the next level with superb whites and colors. We have unique optimized optic for each application, which direct light where it's needed. These include standard, uniform beam and narrow beam versions optimized for shelf, canopy and doors respectively. We optimized the color spectrum to enhance white performance and render astonishing lively rich colors while providing an outstanding efficacy up to 125 lumens per watt to keep energy consumption - and the cost of ownership - low. The LED technology delivers efficacy up to 125 lumens per watt to keep energy costs low.

One shop experience

Premium white contributes to the ultimate shopping experience with consistent look and feel throughout stores. 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 shelf lighting with the same unique color spectrum. It's a unique opportunity to guarantee one look and feel.

Build in innovative lighting with the **flexibility, style and functionality** today's stores are looking for

Maximum design flexibility and hassle-free installation

The ultra-thin InteGrade LED engines and fixtures provide more aesthetic design flexibility to enable you to build a variety of innovative refrigeration systems with the modern style and functionality that stores are looking for. Thanks to extensive range of engine lengths, color temperatures and accessories, InteGrade LED engines maximize design flexibility with a modular approach.

Fewer components needed

The miniaturized, ultra-thin engines and fixtures are easily integrated into display cabinets with plug and play simplicity. The standard engine lengths of 140, 575, 855, 1150 and 1430 mm correspond with the common sizes for most applications. This reduces the number of components you need per installation. And you can assemble custom length light-lines by combining modules. Fixtures (engine plus profile) are 1500 mm long. Design simplicity is assured with a range of mounting profiles, mounting clips, power cables and Philips Xitanium Constant Voltage LED power drivers. The accessories fit together for hassle-free installation.

The new Premium White portfolio

There is also an InteGrade canopy premium white version featuring uniform light distribution in chillers thanks to its breakthrough optical design. We have further expanded the portfolio with a brand new narrow beam engine and fixture for doors. They have more than double the lumen and lux levels for better product visibility.

Light where you want it

When mounted, the light sources are virtually out of sight, so they don't draw attention away from merchandize. For each specific application (shelf-, canopy- and door lighting), we have optimized the optic system. This ensures exceptional light distribution where it's needed. It also produces a continuous line of light without undesirable hot spots, glare or reflections on the merchandize. The result is brighter, more uniform product illumination, both horizontally and vertically. Merchandize 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.

Step up to LED

In contrast to conventional fluorescent lighting, that leaves a darker area in coolers or freezers where it matters most, InteGrade LEDs and optics ensure that light is uniformly distributed over the whole area. There are no hot spots or warm-up time either. Fluorescent lighting also 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, which costs energy. The cool running and high energy efficiency of Philips LED lighting overcomes these drawbacks.

Use Philips LED solutions in refrigeration units to:

- Enhance visibility and attractiveness of products and contribute to the shopping experience.
- Meet wider corporate responsibility goals by reducing overall energy costs.
- Reduce maintenance costs thanks to longer life and fewer lamp changes.
- Shrink carbon footprint as LEDs contain no mercury or lead.

“Maximize attention on the products on display”





Key benefits of InteGrade premium white

Breakthrough performance

- Superior light quality thanks to an optimized color spectrum for enhanced white performance and astonishingly rich colors.
- One look and feel in stores for the ultimate shopping experience when combined with Premium White spot- and down lighting solutions.
- State-of-art efficacy up to 125 lumens per watt.
- Attention stays focused on the displayed products:
 - Revolutionary optics to direct the light where you want it.
 - Brand new canopy version featuring a uniform light distribution in the chillers due to its breakthrough optical design.
 - Brand new narrow beam engines and fixture for doors with more than double lumen and lux levels.
 - Continuous line of light without undesirable hot spots, glare or reflections.
- High flux versions deliver high lumen in combination with high lux levels.

Maximum design flexibility

- Miniaturized design for aesthetic integration and focusing attention on displayed products.
- Extensive range of engine lengths, color temperatures and accessories.

True system proposition

- System release with Xitanium Constant Voltage LED power drivers.
- Five year system warranty.



Standard modules for tailor-made solutions

InteGrade gen 3 premium white engines are available as high output 'vision' and standard 'value' types.

InteGrade gen 3 premium white for shelf lighting

Horizontally integrated modules for shelf lighting in open- and closed cabinets.

InteGrade narrow beam gen 3 premium white for 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 half-height and full-height cabinets.

InteGrade uniform beam gen 3 premium white for canopy lighting

The uniform beam modules provide uniform illumination over the full height of cabinet from the canopy.

InteGrade high flux premium white for canopy and chillers with doors

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

Philips InteGrade LED products

InteGrade LED system gen 3 (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 Xitanium Constant Voltage LED power drivers the InteGrade LED system gen 3 offers maximum design flexibility and plug-and-play simplicity to enable a vast variety of innovative systems with style, modernity and functionality according the needs of the stores.

InteGrade engine value premium white gen 3

Product specification

Product name	Power consumption	Lumen	Color Rendering Index	Correlated Color Temperature*	Product Code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	(12NC)
InteGrade engine Va 140mm 930 PW G3	0,8	85	93	3000	9290 015 67506
InteGrade engine Va 575mm 930 PW G3	3,4	380	93	3000	9290 015 67606
InteGrade engine Va 855mm 930 PW G3	4,9	550	93	3000	9290 015 67706
InteGrade engine Va 1150mm 930 PW G3	6,7	760	93	3000	9290 015 67806
InteGrade engine Va 140mm 940 PW G3	0,8	90	93	4000	9290 015 67906
InteGrade engine Va 575mm 940 PW G3	3,4	420	93	4000	9290 015 68006
InteGrade engine Va 855mm 940 PW G3	4,9	600	93	4000	9290 015 68106
InteGrade engine Va 1150mm 940 PW G3	6,7	840	93	4000	9290 015 68206

* Correlated color temperature within 5 SDCM range

For shelf lighting

InteGrade engine vision premium white gen 3

Product specification

Product name	Power consumption	Lumen	Color Rendering Index	Correlated Color Temperature*	Product Code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	(12NC)
InteGrade engine Vi 140mm 930 PW G3	1,6	170	93	3000	9290 015 68306
InteGrade engine Vi 575mm 930 PW G3	6,9	750	93	3000	9290 015 68406
InteGrade engine Vi 855mm 930 PW G3	10,1	1090	93	3000	9290 015 68506
InteGrade engine Vi 1150mm 930 PW G3	13,8	1500	93	3000	9290 015 68606
InteGrade engine Vi 140mm 940 PW G3	1,6	180	93	4000	9290 015 68706
InteGrade engine Vi 575mm 940 PW G3	6,9	800	93	4000	9290 015 68806
InteGrade engine Vi 855mm 940 PW G3	10,1	1160	93	4000	9290 015 68906
InteGrade engine Vi 1150mm 940 PW G3	13,8	1600	93	4000	9290 015 69006

* Correlated color temperature within 5 SDCM range

For canopy lighting

InteGrade engine uniform beam vision premium white gen 3

Product specification

Product name	Power consumption	Lumen	Color Rendering Index	Correlated Color Temperature*	Product Code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	(12NC)
InteGrade engine UB Vi 140mm 930 PW G3	2,5	250	93	3000	9290 015 72506
InteGrade engine UB Vi 575mm 930 PW G3	10	1000	93	3000	9290 015 69706
InteGrade engine UB Vi 855mm 930 PW G3	15	1500	93	3000	9290 015 69806
InteGrade engine UB Vi 1150mm 930 PW G3	20	2000	93	3000	9290 015 69906
InteGrade engine UB Vi 140mm 940 PW G3	2,5	280	93	4000	9290 015 72606
InteGrade engine UB Vi 575mm 940 PW G3	10	1100	93	4000	9290 015 70006
InteGrade engine UB Vi 855mm 940 PW G3	15	1650	93	4000	9290 015 70106
InteGrade engine UB Vi 1150mm 940 PW G3	20	2200	93	4000	9290 015 70206

* Correlated color temperature within 5 SDCM range

For chillers with doors

InteGrade engine narrow beam value premium white gen 3

Product specification

Product name	Power consumption	Lumen	Color Rendering Index	Correlated Color Temperature*	Product Code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	(12NC)
InteGrade engine NB Va 140mm 930 PW G3	1	115	93	3000	9290 015 69106
InteGrade engine NB Va 575mm 930 PW G3	4,5	500	93	3000	9290 015 69206
InteGrade engine NB Va 1430mm 930 PW G3	11	1230	93	3000	9290 015 69306
InteGrade engine NB Va 140mm 940 PW G3	1	120	93	4000	9290 015 69406
InteGrade engine NB Va 575mm 940 PW G3	4,5	530	93	4000	9290 015 69506
InteGrade engine NB Va 1430mm 940 PW G3	11	1300	93	4000	9290 015 69606

* Correlated color temperature within 5 SDCM range

InteGrade engine narrow beam vision premium white gen 3

Product specification

Product name	Power consumption	Lumen	Color Rendering Index	Correlated Color Temperature*	Product Code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	(12NC)
InteGrade engine NB Vi 140mm 930 PW G3	2,7	280	93	3000	9290 016 05406
InteGrade engine NB Vi 1430mm 930 PW G3	27,2	2850	93	3000	9290 015 71706
InteGrade engine NB Vi 140mm 940 PW G3	2,7	300	93	4000	9290 016 05506
InteGrade engine NB Vi 1430mm 940 PW G3	27,2	3100	93	4000	9290 015 71806

* Correlated color temperature within 5 SDCM range

InteGrade fixture narrow beam value premium white gen 3
Product specification

Product name	Power consumption	Lumen	Color Rendering Index	Correlated Color Temperature*	Product Code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	(12NC)
InteGrade F NB Va 1500mm 930 PW SD G3	11	1230	93	3000	9290 015 72006
InteGrade F NB Va 1500mm 930 PW CTR G3	22	2460	93	3000	9290 015 72106
InteGrade F NB Va 1500mm 940 PW SD G3	11	1300	93	4000	9290 015 72206
InteGrade F NB Va 1500mm 940 PW CTR G3	22	2600	93	4000	9290 015 72306

* Correlated color temperature within 5 SDCM range

InteGrade fixture narrow beam vision premium white gen 3
Product specification

Product name	Power consumption	Lumen	Color Rendering Index	Correlated Color Temperature*	Product Code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	(12NC)
InteGrade F NB Vi 1500mm 930 PW SD G3	26.2	2850	93	3000	9290 015 70306
InteGrade F NB Vi 1500mm 930 PW CTR G3	52.4	5700	93	3000	9290 015 70406
InteGrade F NB Vi 1500mm 940 PW SD G3	26.3	3100	93	4000	9290 015 70506
InteGrade F NB Vi 1500mm 940 PW CTR G3	52.6	6200	93	4000	9290 015 70606

* Correlated color temperature within 5 SDCM range

For canopy and chillers with doors
InteGrade engine high flux gen 3
Product specification

Product name	Power consumption	Lumen	Color Rendering Index	Correlated Color Temperature*	Product Code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	(12NC)
InteGrade engine HF 140mm 930 PW G3	4.4	400	93	3000	9290 016 05606
InteGrade engine HF 575mm 930 PW G3	17.5	1575	93	3000	9290 016 05706
InteGrade engine HF 1150mm 930 PW G3	34.9	3150	93	3000	9290 016 05806
InteGrade engine HF 140mm 940 PW G3	4.0	400	93	4000	9290 016 05906
InteGrade engine HF 575mm 940 PW G3	16.1	1575	93	4000	9290 016 06006
InteGrade engine HF 1150mm 940 PW G3	32.2	3150	93	4000	9290 016 06106

* Correlated color temperature within 5 SDCM range



Philips InteGrade LED products

InteGrade LED system premium white gen 3

Constant voltage drivers	Product Code
	(12NC)
Xitanium Constant Voltage LED Power Driver 20W - 24V	9290 006 54006
Xitanium Constant Voltage LED Power Driver 80W - 24V	9290 006 53906
Xitanium Constant Voltage LED Power Driver 100W 24V 100/240V	9290 014 30080
XITANIUM 100W 4.1A 24V FIX INT -S*	9290 007 71913
LED Driver outdoor 100W 100-240V 24V**	9290 004 85303

* Only for NAM region

** Only for Japan

Accessories	Product Code
	(12NC)
Profiles	
InteGrade profile 875mm(34")	9290 006 43413
InteGrade profile 1175mm(46")	9290 006 43313
InteGrade profile 2000mm(79")	9290 006 54413
InteGrade profile 2000mm(79") F style	9290 006 54313
InteGrade profile 2000mm(79") L style	9290 006 54513
InteGrade prof 2000mm(79") T style CTR	9290 008 53013
InteGrade profile 2000mm(79") T style SD	9290 008 53113
InteGrade profile 2356mm (93") M style	9290 008 71313
Power cables - to connect engine to driver	
InteGrade power cable 1m(39") black	9290 006 41014
InteGrade power cable 2.5m(98") black	9290 006 41114
InteGrade cable 1m(39") black angle	9290 006 44614
InteGrade cable 2.5m(98") black angle	9290 006 44814
InteGrade power cable 1m(39") white	9290 006 45614
InteGrade power cable 2.5m(98") white	9290 006 44514
InteGrade cable 1m(39") white angle	9290 006 44714
InteGrade cable 2.5m(98") white angle	9290 006 44914
InteGrade spacer cable 0.5m black	9290 006 45014
InteGrade spacer cable 0.5m white	9290 006 45114
InteGrade extension cable 1.5m(59")black	9290 008 74413
InteGrade Y cable black	9290 008 74313
Other accessories	
InteGrade mounting clip shelf arm V2	9290 009 57806
InteGrade engine clip shelf arm G2	9290 015 16006
InteGrade engine mounting clip G2	9290 015 16106
InteGrade mounting clip under shelf	9290 006 43903
InteGrade engine lock inline	9290 006 43713
InteGrade mounting clip for T style prof	9290 008 53213
InteGrade mounting clip canopy	9290 015 71106
InteGrade connector	9290 009 59106
InteGrade magnet for M style profile	9290 008 71413
InteGrade rotational bracket	9290 008 74613



