



Lighting food. Brightening faces.

Affinium™ LED modules LFM300 for refrigerated display cases

Affinium LED modules represent the latest in solid state lighting for refrigerated displays. Designed to replace traditional fluorescent lamps inside vertical glass-door refrigerated cases, our LFM300 modules feature specialized optics that provide bright, consistent illumination without the glare or hotspots associated with older fluorescent technology. With a slim, streamlined design, the Affinium LED lighting system provides the perfect solution for retrofit or new installations in the refrigerated aisle.

Affinium LED LFM300 modules offer the following key benefits:

- An excellent total cost of ownership with attractive payback times.
- A dramatic improvement in visibility of both the merchandise on display as well as the entire display case.
- Significant reduction in energy consumption and waste, as well as the elimination of hazardous substances such as mercury and lead.

PHILIPS
sense and simplicity

Affinium LED lighting

The Affinium LED lighting system for refrigerated display cases includes: LFM300 modules, 24VDC Xitanium™ LED power drivers, and mounting extrusions.

About Affinium LED modules LFM300

The LFM300 module is suitable for full-height glass door refrigerated display cases and is available in 59" and 67" lengths.

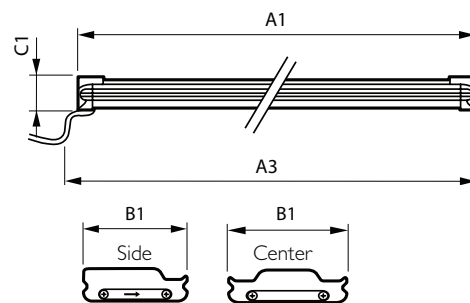
Both lengths are available in two versions:

- Center module
- Side module

The side module can be placed on either side of the case.



Affinium LED modules	Dimensions (in)		
	A1	A3	B1
LFM300 59" center module	59.06	59.45	2.20
LFM300 59" side module	59.06	59.45	1.93
LFM300 67" center module	66.93	67.32	2.20
LFM300 67" side module	66.93	67.32	1.93



Color temperature

Cool White (CW) Affinium LED modules have a correlated color temperature (CCT) of $5600 \pm 400K$.

Neutral White (NW) Affinium LED modules have a correlated color temperature (CCT) of $4100 \pm 400K$.

The optical design of Affinium LED modules ensures that the adjacent LEDs in one module are optimally mixed in order to minimize color differences.

Lighting levels and energy savings

Our products deliver best-in-class light uniformity and are available in two different lighting levels: Value Plus and Vision Plus. Both levels offer superior uniformity, enabling a much better visual impression of the merchandise on display and the entire cooler and freezer sections.

The Value Plus system provides adequate in-store light levels of up to 1000 lux at the center of the shelf with a 4 inch shelf distance and offers energy savings of up to 75% with improved illumination compared to fluorescent lighting systems.

The Vision Plus system provides increased in-store light levels of up to 1300 lux at the center of a shelf with a 4 inch shelf distance and offers maximum aesthetics for the presentation of merchandise, while reducing the energy consumption by up to 55%.

Affinium LED modules, 59" length

Type	Power nominal W	Color temperature K	Color rendering index CRI
Value Plus			
LFM300 59" center CW	24	5200-6000	≥72
LFM300 59" side CW	15	5200-6000	≥72
LFM300 59" center NW	24	3700-4500	≥72
LFM300 59" side NW	15	3700-4500	≥72
Vision Plus			
LFM300 59" center NW	35	3700-4500	≥72
LFM300 59" side NW	22	3700-4500	≥72

Affinium LED modules, 67" length

Type	Power nominal W	Color temperature K	Color rendering index CRI
Value Plus			
LFM300 67" center CW	29	5200-6000	≥72
LFM300 67" side CW	19	5200-6000	≥72
LFM300 67" center NW	29	3700-4500	≥72
LFM300 67" side NW	19	3700-4500	≥72
Vision Plus			
LFM300 67" center NW	40	3700-4500	≥72
LFM300 67" side NW	26	3700-4500	≥72

* Notes on lighting levels and energy savings:

Lighting levels are measured by a CCD camera at the center of the shelf at the center-most door of the case with a 4 inch distance between the back of the module and the front of the merchandise. These measurements were taken at in-store lighting level conditions. Values for nominal power and lighting levels can deviate by 20%, measured at -4°F (-20°C). Due to insufficient data points the values are best estimations.

Lifetime

The lifetime of Affinium LED modules is rated at 50,000 hours (70% lumen maintenance).

Temperature

Operating temperature (performances):	$T_{\text{operating}}$	min -22°F / max +86°F
Safety temperature (operating, no defects)	T_{safety}	min -22°F / max +104°F
Storage temperature	T_{storage}	min -22°F / max +140°F

Enhanced safety

In the event of unit damage, when used with a Safety Extra Low Voltage (SELV), energy-limited, class-2 Xitanium™ driver, the Affinium LED system provides a safer operating environment than that of a fluorescent system.

Compliances and approvals

Affinium LED modules comply with all applicable regulations including:

- ENEC
- CE
- Product safety, class III
- RoHS compliant
- WEEE
- EU directive 2002/95/EC

Ordering details

Affinium LED modules, 59" length

Type	Quantity per pack	Ordering code
Value Plus		
LFM300 1500mm (59") center 24W CW	1	9290 004 66813
LFM300 1500mm (59") side 15W CW	1	9290 004 66913
LFM300 1500mm (59") center 24W NW	1	9290 004 67013
LFM300 1500mm (59") side 15W NW	1	9290 004 67113
Vision Plus		
LFM300 1500mm (59") center 35W NW	1	9290 004 66613
LFM300 1500mm (59") side 22W NW	1	9290 004 66713

Affinium LED modules, 67" length

Type	Quantity per pack	Ordering code
Value Plus		
LFM300 1700mm (67") center 29W CW	1	9290 004 67213
LFM300 1700mm (67") side 19W CW	1	9290 004 67313
LFM300 1700mm (67") center 29W NW	1	9290 004 67413
LFM300 1700mm (67") side 19W NW	1	9290 004 67513
Vision Plus		
LFM300 1700mm (67") center 40W NW	1	9290 004 66413
LFM300 1700mm (67") side 26W NW	1	9290 004 66513

Retrofit Mounting Extrusions

Type	Part Number
LFM300 59" center mounting extrusion	LFMEXT60INCRKM
LFM300 67" center mounting extrusion	LFMEXT72INCRKM
LFM300 59" side mounting extrusion (both sides)	LFM200EXT60INSDM
LFM300 67" side mounting extrusion (both sides)	LFM200EXT72INSDM

LED power drivers

Type	Part Number
Xitanium LED power driver 100W - 24V	LED120A0024V41RD
Xitanium LED Intellivolt® power driver 100W - 24V	LEDINTA0024V41FO



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Form No. LE-6200-R02 09/09

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