



Breakthrough in energy efficiency and higher lumen packages

Philips Fortimo LED Downlight Module (DLM) Gen 4 System Downlighting Systems Simplified

The Fortimo LED Downlight Module is equipped with a special remote phosphor technology, that enables very high levels of LED efficacy. This general lighting solution continues on the idea of LED Systems Simplified. Additionally the excellent lumen maintenance and long lifetime of up to 50,000 hours* make frequent re-lamping a thing of the past – a promise that is backed up by a Philips five-year limited warranty.

Peace of mind for manufacturers

The lamp and driver have been developed and rigorously tested in combination with each other, including key enhancements like thermal protection for the module. Additionally, the module has been successfully implemented using LM-80 guidelines. As a result, they provide a great lumen output and light distribution, while efficacy upgrades can be implemented when available.

Future-proof modules

As energy efficiency advances in LEDs are made and new bins become available, they will be incorporated into the Fortimo LED Modules, offering higher efficacies, without changing the dimensions, shape or

lumen output of the system. This allows luminaire manufacturers to plan and design new luminaire ranges for the coming years.

Benefits of Fortimo Downlight Module System

- Increased efficacies
- CRI increased to a minimum of 80
- Color consistency increased to 3 SDCM
- Dimming options include 0-10V, TE and DALI

Applications

General lighting in:

- Offices (areas such as hallways, receptions, boardrooms, etc.)
- Hotel lobbies and receptions areas
- Retail high-end shops

* Average rated life is based on engineering data testing and probability analysis. The hours are at the B50, L70 point - 50,000 hours life with 70% lumen maintenance at Tc point of 65° C.

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Module Performance Specifications*

Description	Approx. Lumens ^{1, 2}	CRI ³	CCT ⁴ (K)	SDCM ⁵	Module Rated Power (W)	Module Efficacy (lm/W)	Lifetime (hrs) Tc 65° C ⁶
Fortimo LED DLM 1100 10W/830 UL Gen4	1100	80	3000	3	10.1	108.9	50k
Fortimo LED DLM 1100 10W/835 UL Gen4	1100	80	3500	3	9.6	114.6	50k
Fortimo LED DLM 1100 9W/840 UL Gen4	1100	80	4000	3	9.2	119.6	50k
Fortimo LED DLM 1500 14W/830 UL Gen4	1500	80	3000	3	14.5	103.4	50k
Fortimo LED DLM 1500 14W/835 UL Gen4	1500	80	3500	3	13.8	108.7	50k
Fortimo LED DLM 1500 13W/840 UL Gen4	1500	80	4000	3	13.2	113.6	50k
Fortimo LED DLM 2000 21W/830 UL Gen4	2000	80	3000	3	20.9	95.7	50k
Fortimo LED DLM 2000 20W/835 UL Gen4	2000	80	3500	3	19.9	100.5	50k
Fortimo LED DLM 2000 19W/840 UL Gen4	2000	80	4000	3	18.9	105.8	50k
Fortimo LED DLM 3000 32W/830 UL Gen4	3000	80	3000	3	31.8	94.3	50k
Fortimo LED DLM 3000 30W/835 UL Gen4	3000	80	3500	3	30.1	99.7	50k
Fortimo LED DLM 3000 28W/840 UL Gen4	3000	80	4000	3	28.5	105.3	50k

* Current specifications are subject to change, for the latest specifications, please contact your local Philips sales representative.

1. Photometric testing consistent with CIE 127:2007 2nd Edition

2. 100% of all production units fall between -10% and +20% of listed values

3. All CRI are 80 or above

4. Complies with ANSI C78.377A Specifications

5. All production units will fall between +/- 0.2 of listed value

6. Average rated life is based on engineering data testing and probability analysis. The hours are at the B50, L70 point - 50,000 hours life with 70% lumen maintenance at Tc point of 65° C

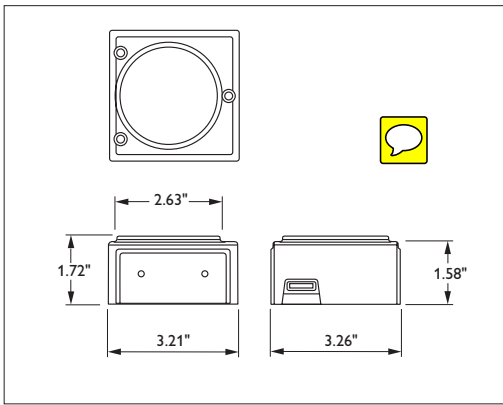
System Part Numbers and Performance Specifications*

**For 120-277
Vac Systems**

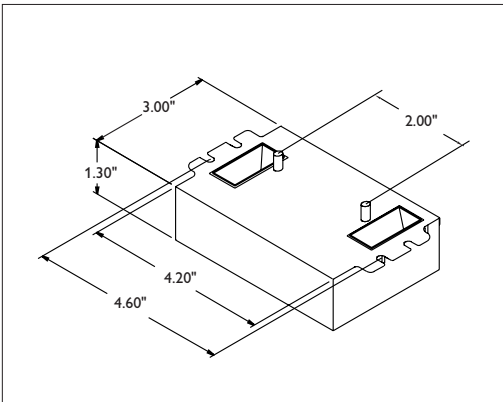
System Description	Module Part Number	25W Driver Dimming (0-10V)		50W Driver Dimming (0-10V)	
		System Power (W)	System Efficacy (lm/W)	System Power (W)	System Efficacy (lm/W)
Fortimo LED DLM 1100 10W/830 UL Gen4	9290 008 77403	11.3	93.7		
Fortimo LED DLM 1100 10W/835 UL Gen4	9290 008 77503	10.8	98.0		
Fortimo LED DLM 1100 9W/840 UL Gen4	9290 008 77603	10.3	103.2		
Fortimo LED DLM 1500 14W/830 UL Gen4	9290 008 77703	16.3	88.6		
Fortimo LED DLM 1500 14W/835 UL Gen4	9290 008 77803	15.5	92.9		
Fortimo LED DLM 1500 13W/840 UL Gen4	9290 008 77903	14.8	98.0		
Fortimo LED DLM 2000 21W/830 UL Gen4	9290 008 78003	23.5	81.7		
Fortimo LED DLM 2000 20W/835 UL Gen4	9290 008 78103	22.3	86.0		
Fortimo LED DLM 2000 19W/840 UL Gen4	9290 008 78203	21.2	91.2		
Fortimo LED DLM 3000 32W/830 UL Gen4	9290 008 78503			35.7	83.7
Fortimo LED DLM 3000 30W/835 UL Gen4	9290 008 78303			33.8	89.0
Fortimo LED DLM 3000 28W/840 UL Gen4	9290 008 78403			32.0	93.5
Driver Part Number		XI025C100V036DNM1		XI050C100V054DNM1	

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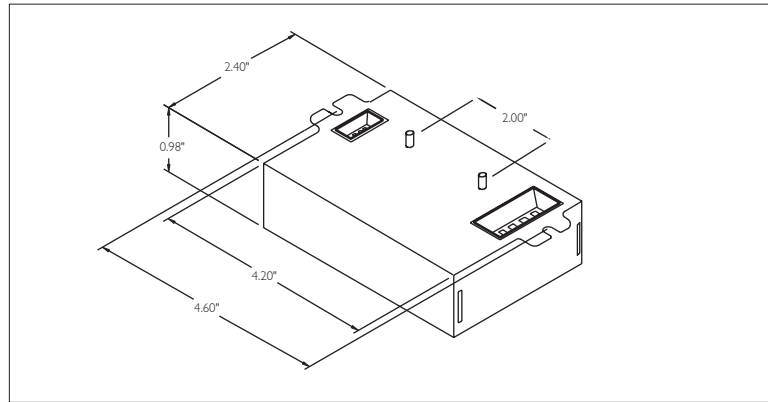
Dimensions (inches)



Fortimo DLM Downlight Module



50W Smartmate Driver



25W Smartmate Driver

Cable Assembly Part Numbers

Cable Assembly	For use with 25W & 50W drivers
929000663703	(9 wire, fan, 50cm)
929000683803	(9 wire, fan, 84cm)
929000683903	(6 wire, 50 cm)
929000684003	(6 wire, 84 cm)



7. Indicates that the LEDs are components recognized with UL and complies with UL8750 Standard for LEDs.

8. Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)] in electrical and electronic products. For products used in North America compliance to RoHS is voluntary and self-certified.



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