

PHILIPS

LED Modules

Fortimo DLM



The next level of **energy efficient** downlighting

Philips Fortimo LED Downlight Module (DLM) Gen 4 System 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 hours¹ make frequent re-lamping a thing of the past – a promise that is backed up by a Philips five-year limited warranty.²

Benefits

- Increased efficacies of up to 32% compared to Gen 3³
- CRI of minimum 80
- Excellent quality of white light (3 SDCM)
- Dimming options include 0-10V
- Thermal protection of Fortimo system qualifies for UL Safety Related Electronic Circuit Program¹²

Applications

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

Fortimo LED Downlight Module (DLM)

Module Performance Specifications* (Subject to change without notice)

Description	Approx. Lumens ^{4,5}	CRI ⁶	CCT ⁷	SDCM ⁸	Module Rated Power (W)	Module Efficacy (lm/W)	Lifetime (hrs) Tc 80°C ⁹
Fortimo LED DLM 1100 10W/827 UL Gen4	1100	80	2700	3	10.3	106.6	50k
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 16W/827 UL Gen4	1500	80	2700	3	15.4	97.3	50k
Fortimo LED DLM 1500 15W/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 22W/827 UL Gen4	2000	80	2700	3	22.3	89.6	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 34W/827 UL Gen4	3000	80	2700	3	33.5	89.6	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 29W/840 UL Gen4	3000	80	4000	3	28.7	104.7	50k

System Part Numbers and Performance Specifications* For 120-277 Vac Systems

System Description	Module Part Number	25W Driver Dimming (0-10V)		36W Driver Dimming (0-10V)		50W Driver Dimming (0-10V)	
		System Power (W)	System Efficacy (lm/W)	System Power (W)	System Efficacy (lm/W)	System Power (W)	System Efficacy (lm/W)
Fortimo LED DLM 1100 10W/827 UL Gen4	9290 008 95406 X	12.9	85.3				
Fortimo LED DLM 1100 10W/830 UL Gen4	9290 008 77403 X	12.7	86.7				
Fortimo LED DLM 1100 10W/835 UL Gen4	9290 008 77503 X	12.2	89.9				
Fortimo LED DLM 1100 9W/840 UL Gen4	9290 008 77603 X	11.7	94.1				
Fortimo LED DLM 1500 16W/827 UL Gen4	9290 008 95506 X	18.8	79.8				
Fortimo LED DLM 1500 15W/830 UL Gen4	9290 008 77703 X	17.8	84.4				
Fortimo LED DLM 1500 14W/835 UL Gen4	9290 008 77803 X	17.0	88.2				
Fortimo LED DLM 1500 13W/840 UL Gen4	9290 008 77903 X	16.1	92.9				
Fortimo LED DLM 2000 22W/827 UL Gen4	9290 008 95606 X	26.8	74.6				
Fortimo LED DLM 2000 21W/830 UL Gen4	9290 008 78003 X	25.3	78.9				
Fortimo LED DLM 2000 20W/835 UL Gen4	9290 008 78103 X	24.1	83.1				
Fortimo LED DLM 2000 19W/840 UL Gen4	9290 008 78203 X	22.7	88.0				
Fortimo LED DLM 3000 34W/827 UL Gen4	9290 008 95706 X			39.1	76.7	38.5	77.9
Fortimo LED DLM 3000 32W/830 UL Gen4	9290 008 78303 X			37.1	80.9	36.8	81.6
Fortimo LED DLM 3000 30W/835 UL Gen4	9290 008 78403 X			35.8	83.7	34.8	86.2
Fortimo LED DLM 3000 29W/840 UL Gen4	9290 008 78503 X			34.0	88.3	33.0	90.8
Driver Part Number		XI025C100V036DNMX or XI025C100V045DNM1		XI036C100V048DNMX		XI050C100V054DNMX	

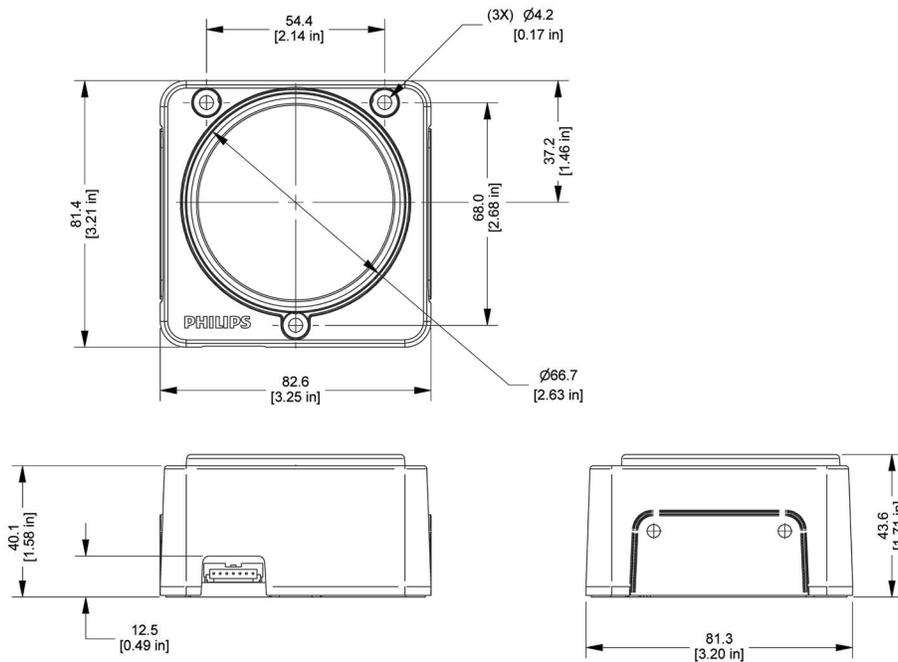
Fortimo LED Downlight Module (DLM)

Peace of mind for manufacturers

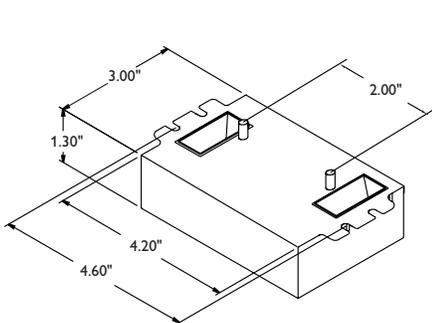
The LED Module and driver have been developed and rigorously tested in combination with each other, including key enhancements like thermal protection for the module. Additionally, the module has been successfully implemented using LM-80 guidelines. As a result, they provide a great lumen output and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

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 substitute lumen output by light distribution of the system. This allows luminaire manufacturers to easily upgrade their fixture design to the latest technology with little hassle.

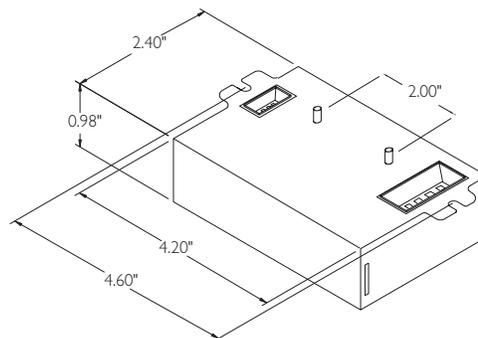
Dimensions



Fortimo DLM Downlight Module



50W Smartmate Driver



25W and 36W Smartmate Driver

Fortimo LED Downlight Module (DLM)

Cable Assembly Part Numbers

For use with 50W driver	For use with 25W and 36W driver
929000663703 – (fan, 50cm)	929000683903 – (50 cm)
929000683803 – (fan, 84cm)	929000684003 – (84 cm)

1. 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 80°C.
 2. See http://www.usa.lighting.philips.com/connect/tools_literature/warranties.wpd and click on the appropriate product for complete warranty details.
 3. Fortimo LED DLM 1100/840 (Gen 3 91 lm/W, Gen 4 120 lm/W module efficacy).
 4. Photometric testing consistent with CIE 127:2007 2nd Edition.
 5. 100% of all production units fall between -10% and +20% of listed values.
 6. All CRI are 80 or above.
 7. Complies with ANSI C78.377A Specifications.
 8. All production units will fall between +/- 0.2 of listed value.
 9. 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 80°C.
 10. Indicates that the LEDs are components recognized with UL and complies with UL8750 Standard for LEDs.
 11. 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.
- * Current specifications are subject to change, for the latest specifications, please contact your local Philips sales representative.



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