

Lutron® LED Drivers with Philips® Fortimo® LED Modules

Lutron and Philips have worked together to confirm compatibility of the Lutron® Hi-lume® A-Series and EcoSystem® 5-Series LED drivers with the Philips® Fortimo® DLM and SLM LED modules. Inherent benefits of using Lutron® LED drivers together with the Fortimo® LED modules include:

- Lutron® drivers guarantee proper performance with all Lutron-compatible dimmers and controls, including EcoSystem®, 3-wire, and 2-wire forward-phase controls (see driver specification submittal sheet for a complete list of compatible controls).
- The A-Series driver enables 1% dimming, while the 5-Series driver allows 5% dimming.
- Lutron® LED drivers provide the same nominal light output and quality as the Philips® Advance® Xitanium driver.

Design comparisons between a Lutron® driver and a Philips® Advance® driver

Module performance

Using the appropriate Lutron® driver will provide identical performance from the module (delivered lumens, efficacy, color temperature, etc.), as compared to the appropriate Philips® Advance® Xitanium driver. However, a Lutron® driver will provide dimming via constant-current reduction down to 1% of maximum light output for the A-Series and 5% of maximum light output for the 5-Series.

Thermal performance

The power dissipation and thermal performance of the Philips® Fortimo® module will be the same when either brand driver is used because the module is being driven at the same power level and it will perform at the same efficacy level. While the Philips® Advance® Xitanium driver allows the module to communicate when it is exceeding its maximum temperature—so that the driver can decrease the delivered power—the Lutron® driver does not support this feature. Accordingly, care should be taken while designing and manufacturing the fixture to make sure the Philips® Fortimo® module never exceeds its temperature limit. The Lutron® driver has internal protection to prevent overheating of the driver itself (similar to the Philips® Advance® Xitanium driver), allowing it to decrease delivered power should overheating occur under abnormal conditions. Proper fixture design and application usage should ensure that the modules and drivers are operated within their published design limits.

Fan output

The design of the fixture may require use of a separately-powered, low-voltage fan or cooler, rather than a passive heatsink. The Philips® Advance® Xitanium driver may have a power supply output for a fan or cooler, but the Lutron® driver does not. If a fan is needed, use a low-voltage power supply, such as the Philips® Advance® Xitanium LEDUNIA0350C12F (120–230 V~), to provide power to the fan. Note that only a 3-wire and EcoSystem® (L3D-prefix), and EcoSystem® (LDE-prefix) drivers can be used with a low-voltage power supply because it has the necessary connection from Hot and Neutral (see wiring diagram on following page). The fan will be powered whenever the driver is powered, regardless of the light level.

Lutron® Drivers for Philips® Fortimo® DLM Gen 4 Modules

As a convenience to designers, the Fortimo® DLM Gen 4 Modules are provided with two compatible Lutron® driver model numbers: the first type of compatible driver, for “Matching Lumens”, provides an exact driver match, ensuring that the module will deliver the specified number of lumens; the second type of compatible driver, for “Limiting SKUs”, provides designers with a more restricted number of SKUs, allowing simplified design and inventory management. A variation of up to +/– 5% lumen output should be expected from Philips® Fortimo® modules when using a driver from the “Limiting SKUs” list; this is in addition to the variation listed in the module specification sheet.

A-Series Drivers:

Philips® Fortimo® DLM Module Description	Philips® Module Part Number	Lutron® Driver Part Number: A-Series ¹	
		Matching Lumens	Limiting SKUs
Fortimo® LED DLM 1100 10W/827 UL Gen 4	9290 008 95406	LxxA4U1Uyy-HA048	—
Fortimo® LED DLM 1100 10W/830 UL Gen 4	9290 008 77403	LxxA4U1Uyy-HA046	LxxA4U1Uyy-HA044
Fortimo® LED DLM 1100 10W/835 UL Gen 4	9290 008 77503	LxxA4U1Uyy-HA044	LxxA4U1Uyy-HA044
Fortimo® LED DLM 1100 9W/840 UL Gen 4	9290 008 77603	LxxA4U1Uyy-HA042	LxxA4U1Uyy-HA044
Fortimo® LED DLM 1500 16W/827 UL Gen 4	9290 008 95506	LxxA4U1Uyy-HA070	—
Fortimo® LED DLM 1500 15W/830 UL Gen 4	9290 008 77703	LxxA4U1Uyy-HA066	LxxA4U1Uyy-HA063
Fortimo® LED DLM 1500 14W/835 UL Gen 4	9290 008 77803	LxxA4U1Uyy-HA063	LxxA4U1Uyy-HA063
Fortimo® LED DLM 1500 13W/840 UL Gen 4	9290 008 77903	LxxA4U1Uyy-HA060	LxxA4U1Uyy-HA063
Fortimo® LED DLM 2000 22W/827 UL Gen 4	9290 008 95606	LxxA4U1Uyy-JA1000	—
Fortimo® LED DLM 2000 21W/830 UL Gen 4	9290 008 78003	LxxA4U1Uyy-JA093	LxxA4U1Uyy-JA089
Fortimo® LED DLM 2000 20W/835 UL Gen 4	9290 008 78103	LxxA4U1Uyy-JA089	LxxA4U1Uyy-JA089
Fortimo® LED DLM 2000 19W/840 UL Gen 4	9290 008 78203	LxxA4U1Uyy-JA085	LxxA4U1Uyy-JA089
Fortimo® LED DLM 3000 34W/827 UL Gen 4	9290 008 95706	LxxA4U1Uyy-JA1000	—
Fortimo® LED DLM 3000 32W/830 UL Gen 4	9290 008 78303	LxxA4U1Uyy-JA095	LxxA4U1Uyy-JA090
Fortimo® LED DLM 3000 30W/835 UL Gen 4	9290 008 78403	LxxA4U1Uyy-JA090	LxxA4U1Uyy-JA090
Fortimo® LED DLM 3000 28W/840 UL Gen 4	9290 008 78503	LxxA4U1Uyy-JA086	LxxA4U1Uyy-JA090

5-Series Drivers:

Philips® Fortimo® DLM Module Description	Philips® Module Part Number	Lutron® Driver Part Number: 5-Series ²	
		Matching Lumens	Limiting SKUs
Fortimo® LED DLM 1100 10W/827 UL Gen 4	9290 008 95406	LDE51U1UKz-NA050	—
Fortimo® LED DLM 1100 10W/830 UL Gen 4	9290 008 77403	LDE51U1UKz-NA046	LDE51U1UKz-NA044
Fortimo® LED DLM 1100 10W/835 UL Gen 4	9290 008 77503	LDE51U1UKz-NA044	LDE51U1UKz-NA044
Fortimo® LED DLM 1100 9W/840 UL Gen 4	9290 008 77603	LDE51U1UKz-NA042	LDE51U1UKz-NA044
Fortimo® LED DLM 1500 16W/827 UL Gen 4	9290 008 95506	LDE52U1UKz-FA070	—
Fortimo® LED DLM 1500 15W/830 UL Gen 4	9290 008 77703	LDE52U1UKz-FA066	LDE52U1UKz-FA063
Fortimo® LED DLM 1500 14W/835 UL Gen 4	9290 008 77803	LDE52U1UKz-FA063	LDE52U1UKz-FA063
Fortimo® LED DLM 1500 13W/840 UL Gen 4	9290 008 77903	LDE52U1UKz-FA060	LDE52U1UKz-FA063
Fortimo® LED DLM 2000 22W/827 UL Gen 4	9290 008 95606	LDE52U1UKz-MA105	—
Fortimo® LED DLM 2000 21W/830 UL Gen 4	9290 008 78003	LDE52U1UKz-MA93	LDE52U1UKz-MA89
Fortimo® LED DLM 2000 20W/835 UL Gen 4	9290 008 78103	LDE52U1UKz-MA89	LDE52U1UKz-MA89
Fortimo® LED DLM 2000 19W/840 UL Gen 4	9290 008 78203	LDE52U1UKz-MA85	LDE52U1UKz-MA89
Fortimo® LED DLM 3000 34W/827 UL Gen 4	9290 008 95706	—	—
Fortimo® LED DLM 3000 32W/830 UL Gen 4	9290 008 78303	—	—
Fortimo® LED DLM 3000 30W/835 UL Gen 4	9290 008 78403	—	—
Fortimo® LED DLM 3000 28W/840 UL Gen 4	9290 008 78503	—	—

¹ In the Lutron® driver model number, “xx” represents control input type (3D for 3-wire and EcoSystem®; TE for 2-wire forward-phase control with neutral) and “yy” represents enclosure type (KS for compact case with studs, KN for compact case without studs, and MN for linear case); any combination of control input and enclosure type may be used. See Lutron® Hi-lume® A-Series specification sheet at www.lutron.com/hilumeled for details.

² In the Lutron® driver model number for the 5-Series, “z” represents the enclosure type (“s” for studded, “n” for non-studded). See Lutron® EcoSystem® 5-Series specification sheet at www.lutron.com/ecosystem5series

Lutron® Hi-lume® A-Series Drivers for Philips® Fortimo® Gen 3 DLM Modules

For reference only. These devices have been superseded by DLM Gen 4 models.		
Philips® Fortimo® DLM Module Description	Philips® Module Part Number	Lutron® Driver Part Number ¹
Fortimo® LED DLM 1100 14 W/827 UL Gen 3	9290 006 71003	LxxA4U1Uyy-HA070
Fortimo® LED DLM 1100 14 W/830 UL Gen 3	9290 006 71103	LxxA4U1Uyy-HA067
Fortimo® LED DLM 1100 13 W/835 UL Gen 3	9290 006 71203	LxxA4U1Uyy-HA065
Fortimo® LED DLM 1100 13 W/840 UL Gen 3	9290 006 71303	LxxA4U1Uyy-HA063
Fortimo® LED DLM 1300 16 W/827 UL Gen 3	9290 006 71403	LxxA4U1Uyy-HA070
Fortimo® LED DLM 1300 16 W/830 UL Gen 3	9290 006 71503	LxxA4U1Uyy-HA070
Fortimo® LED DLM 1300 15 W/835 UL Gen 3	9290 006 71603	LxxA4U1Uyy-HA066
Fortimo® LED DLM 1300 15 W/840 UL Gen 3	9290 006 71703	LxxA4U1Uyy-HA064
Fortimo® LED DLM 2000 26 W/827 UL Gen 3	9290 006 71803	LxxA4U1Uyy-FA070
Fortimo® LED DLM 2000 26 W/830 UL Gen 3	9290 006 71903	LxxA4U1Uyy-FA070
Fortimo® LED DLM 2000 25 W/835 UL Gen 3	9290 006 72003	LxxA4U1Uyy-FA067
Fortimo® LED DLM 2000 24 W/840 UL Gen 3	9290 006 72103	LxxA4U1Uyy-FA064
Fortimo® LED DLM 2800 42 W/827 UL Gen 3	9290 006 72203	L3DA5U1UKx-NA088
Fortimo® LED DLM 2800 42 W/830 UL Gen 3	9290 006 72303	L3DA5U1UKx-NA088
Fortimo® LED DLM 2800 39 W/835 UL Gen 3	9290 006 72403	LxxA4U1Uyy-FA082
Fortimo® LED DLM 2800 39 W/840 UL Gen 3	9290 006 72503	LxxA4U1Uyy-FA082

¹ In the Lutron® driver model number, “xx” represents control input type (3D for 3-wire and EcoSystem®, TE for 2-wire forward-phase control with neutral) and “yy” represents enclosure type (KS for compact case with studs, KN for compact case without studs, and MN for linear case); any combination of control input and enclosure type may be used. See Lutron® Hi-lume® A-Series specification sheet at www.lutron.com/hilumeled for details.

Lutron® Hi-lume® A-Series Drivers for Philips® Fortimo® Gen 2 SLM Modules

Philips® Fortimo® SLM Module Description	Philips® Module Part Number	Lutron® Driver Part Number ¹
Fortimo® LED SLM 800 10 W/827 L13 G2	9290 006 97903	LxxA4U1Uyy-HA043
Fortimo® LED SLM 800 10 W/830 L13 G2	9290 006 98003	LxxA4U1Uyy-HA041
Fortimo® LED SLM 800 9 W/835 L13 G2	9290 006 98103	LxxA4U1Uyy-HA038
Fortimo® LED SLM 800 8 W/840 L13 G2	9290 006 98203	LxxA4U1Uyy-HA035
Fortimo® LED SLM 800 13 W/927 L13 G2	9290 006 98303	LxxA4U1Uyy-HA057
Fortimo® LED SLM 800 12 W/930 L13 G2	9290 006 98403	LxxA4U1Uyy-HA052
Fortimo® LED SLM 1100 15 W/827 L13 G2	9290 006 74703	LxxA4U1Uyy-HA062
Fortimo® LED SLM 1100 18W/827 L9 G2	9290 008 32003	LxxA4U1Uyy-HA067
Fortimo® LED SLM 1100 14 W/830 L13 G2	9290 006 74903	LxxA4U1Uyy-HA058
Fortimo® LED SLM 1100 17 W/830 L9 G2	9290 006 59403	LxxA4U1Uyy-HA061
Fortimo® LED SLM 1100 13 W/835 L13 G2	9290 006 75103	LxxA4U1Uyy-HA057
Fortimo® LED SLM 1100 12 W/840 L13 G2	9290 006 75203	LxxA4U1Uyy-HA052
Fortimo® LED SLM 1100 14W/840 L9 G2	9290 008 32103	LxxA4U1Uyy-HA053
Fortimo® LED SLM 1100 20 W/927 L13 G2	9290 006 74803	LxxA4U1Uyy-JA085
Fortimo® LED SLM 1100 18 W/930 L13 G2	9290 006 75003	LxxA4U1Uyy-JA078
Fortimo® LED SLM 1100 19W/930 L9 G2	9290 008 19503	LxxA4U1Uyy-HA067
Fortimo® LED SLM 2000 26 W/827 L19 G2	9290 006 75403	LxxA4U1Uyy-FA056
Fortimo® LED SLM 2000 24 W/830 L19 G2	9290 006 75803	LxxA4U1Uyy-FA052
Fortimo® LED SLM 2000 23 W/835 L19 G2	9290 006 76203	LxxA4U1Uyy-FA051
Fortimo® LED SLM 2000 20 W/840 L19 G2	9290 006 76403	LxxA4U1Uyy-EA046
Fortimo® LED SLM 2000 35 W/927 L19 G2	9290 006 75603	LxxA4U1Uyy-FA077
Fortimo® LED SLM 2000 32 W/930 L19 G2	9290 006 76003	LxxA4U1Uyy-FA070
Fortimo® LED SLM 3000 42 W/827 L19 G2	9290 006 76503	L3DA5U1UKx-NA091
Fortimo® LED SLM 3000 39 W/830 L19 G2	9290 006 76903	L3DA5U1UKx-NA084
Fortimo® LED SLM 3000 40 W/835 L19 G2	9290 006 77303	L3DA5U1UKx-NA087
Fortimo® LED SLM 3000 36 W/840 L19 G2	9290 006 77503	L3DA5U1UKx-NA078

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In the Lutron® driver model number, “xx” represents control input type (3D for 3-wire and EcoSystem®; TE for 2-wire forward-phase control with neutral) and “yy” represents enclosure type (KS for compact case with studs, KN for compact case without studs, and MN for linear case); any combination of control input and enclosure type may be used. See Lutron® Hi-lume® A-Series specification sheet at www.lutron.com/hilumeled for details.

Lutron® Hi-lume® A-Series Drivers for Philips® Fortimo® Gen 1 LED Line

Number of Fortimo® LED line modules ¹	Fortimo® LED Line 1 ft 1100 lm 8xx 3R LVI			Fortimo® LED Line 1 ft 650 lm 8xx 1R LVI		
	Maximum Current	Lutron Driver Model ²	Output Power	Maximum Current	Lutron® Driver Model ²	Output Power
1	—	—	—	280 mA	LxxA4U1Uyy-HA028	9 W
2	320 mA	LxxA4U1Uyy-HA032	11 W	560 mA	LxxA4U1Uyy-HA056	19 W
3	480 mA	LxxA4U1Uyy-HA048	16 W	840 mA	LxxA4U1Uyy-JA084	28 W
4	640 mA	LxxA4U1Uyy-HA064	22 W	1120 mA	LxxA4U1Uyy-LA112	37 W
5	800 mA	LxxA4U1Uyy-JA080	27 W	—	—	—
6	960 mA	LxxA4U1Uyy-JA096	33 W	—	—	—
7	1120 mA	LxxA4U1Uyy-LA112	38 W	—	—	—

- ¹ Multiple LED line modules connected to the same driver must be connected in parallel. LED line modules can be run at lower currents for lower lumen outputs. See LED line technical data sheets for details.
- ² In the Lutron® driver model number, “xx” represents control input type (3D for 3-wire and EcoSystem®; TE for 2-wire forward-phase control with neutral) and “yy” represents enclosure type (KS for compact case with studs, KN for compact case without studs, and MN for linear case); any combination of control input and enclosure type may be used. See Lutron® Hi-lume® A-Series specification sheet at www.lutron.com/hilumeled for details.

Support

The combination of Lutron® drivers and Philips® Fortimo® light engines has been qualified by each manufacturer and, therefore, is supported by both Lutron and Philips, respectively. For product support information regarding either Lutron® or Philips® Fortimo® or Philips® Advance® products, see the respective manufacturer’s website for complete details.

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