



# LUTRON® Product Report Card

ID 2402

**Manufacturer:** Collingwood  
**Model Number Tested:** DL2423840  
**Other Model Numbers:** None

**Manufacturer's Description**

Type of device: LED 11 W Downlight  
 Operating voltage: 240V  
 Input Power: 11.0 W  
 Input Current: 0.70 A  
 Input Frequency: 50 Hz/60 Hz

Control Type: Forward and Reverse Phase Control  
 Dimming Range: Not Specified  
 Output Power: Not Specified  
 Lumen Output: 765 lm  
 Type/Shape: Downlight  
 Base Type: Not Specified

**Lutron Test Results**

Date Tested: 16-Aug-16  
 Test Voltage: 240 V  
 Test Notes: Performance verified with up to 13 fixtures per control.

**Lutron Recommended Products**

*Lutron products not in this list can be considered to be not recommended, based on our testing.*

Product	Model Number	Control Type <sup>(1)</sup>	Fixtures per Dimmer <sup>(2)</sup>	Measured Dimming Range <sup>(3)</sup> (Software Trim Settings)		Perceived Low End <sup>(4)</sup>	Comments
			Min-Max	Low End	High End		
<i>Wallbox Dimmers</i>							
<i>No applicable results</i>							
<i>Commercial Systems</i>							
Panel Module	HW/LP-RPM-4A-230	RP	1 - 12	11% (18)	96% (82)	33%	Rating is per channel; total per module is 12. Rating is per channel; total per module is 12.
Panel Module	HW/LP-RPM-4U-230-CE	FP	1 - 45	5% (14)	91% (74)	23%	Rating is per channel; total per module is 58.
Panel Module	GP (Harrier) Card	FP	1 - 45	6% (10)	96% (76)	24%	Rating is per output. Use load type 2-1.
Grafik QS/ Wallbox Power Module	Grafik Eye QS Main Unit Family, 240V/ LQR-WPM-6PCE	FP	1 - 45	11% (23)	94% (77)	33%	Rating is per output; total quantity per Main Unit is 135/180/207 for 3/4/6-Zone units, respectively.
Grafik Eye/ HomeWorks	GRX-3104-CE/ HWI-WPM-6D-230CE	FP	1 - 35	11%	98%	33%	Rating is per output; total quantity per Main Unit is 70/100/100/100 for 2/3/4/6-Zone units, respectively.
HomeWorks QS/ ESN Phase Adaptive	LQSE-4A-D (Gen. 2)*/ QSNE-4A-D (Gen. 2)*	FP	1 - 5	9% (15)	95% (74)	30%	Rating is per zone. Performance may vary with dimmers manufactured before March 2014.
HomeWorks QS/ ESN Phase Adaptive	LQSE-4A-D (Gen. 2)*/ QSNE-4A-D (Gen. 2)*	RP	1 - 11	8% (20)	97% (83)	29%	Rating is per zone. Performance may vary with dimmers manufactured before March 2014.

HomeWorksQS/ myRoom	LQSE-4A1-D/ MQSE-4A1-D/ MQSE-3A1/ MQSE-2A1-D, 240V, RP	RP	1 - 3	16% (30)	99% (99)	40%	Rating is per output; total quantity per Main Unit is 12.
Grafik Integrale	GXI-3104	RP	1 - 10	7%	97%	27%	Need per output and total per module comment. Rating is per channel; total per module is 24.
<b>Residential Systems</b>							
Panel Module	HW/LP-RPM-4A-230	RP	1 - 12	11% (18)	96% (82)	33%	Rating is per channel; total per module is 12. Rating is per channel; total per module is 12.
Panel Module	HW/LP-RPM-4U-230-CE	FP	1 - 45	5% (14)	91% (74)	23%	Rating is per channel; total per module is 58.
Panel Module	GP (Harrier) Card	FP	1 - 45	6% (10)	96% (76)	24%	Rating is per output. Use load type 2-1.
Grafik QS/ Wallbox Power Module	Grafik Eye QS Main Unit Family, 240V/ LQR-WPM-6PCE	FP	1 - 45	11% (23)	94% (77)	33%	Rating is per output; total quantity per Main Unit is 135/180/207 for 3/4/6-Zone units, respectively.
Grafik Eye/ HomeWorks	GRX-3104-CE/ HWI-WPM-6D-230CE	FP	1 - 35	11%	98%	33%	Rating is per output; total quantity per Main Unit is 70/100/100/100 for 2/3/4/6-Zone units, respectively.
HomeWorks QS/ ESN Phase Adaptive	LQSE-4A-D (Gen. 2)*/ QSNE-4A-D (Gen. 2)*	FP	1 - 5	9% (15)	95% (74)	30%	Rating is per zone. Performance may vary with dimmers manufactured before March 2014.
HomeWorks QS/ ESN Phase Adaptive	LQSE-4A-D (Gen. 2)*/ QSNE-4A-D (Gen. 2)*	RP	1 - 11	8% (20)	97% (83)	29%	Rating is per zone. Performance may vary with dimmers manufactured before March 2014.
HomeWorksQS/ myRoom	LQSE-4A1-D/ MQSE-4A1-D/ MQSE-3A1/ MQSE-2A1-D, 240V, RP	RP	1 - 3	16% (30)	99% (99)	40%	Rating is per output; total quantity per Main Unit is 12.
<b>Interfaces<sup>(5)</sup></b>							
	NGRX-ELVI-CE with Grafik Eye QS Main Unit, 240V	RP	1 - 15	13% (40)	95% (75)	36%	
	NGRX-PB-CE with Grafik Eye QS Main Unit, 240V	FP	1 - 8	13% (22)	98% (75)	36%	
Notes:	<p>* Identical model numbers with different compatibility codes may have different performance; ( ) means there is no compatibility code assigned; contact technical support for additional information.</p> <p>(1) Control types of FP and RP represent Forward Phase and Reverse Phase, respectively. See product literature for details.</p> <p>(2) Maximum Fixtures per Dimmer value represents the maximum safe loading of the control.</p> <p>(3) Values are based on light output using the specified dimming control, and may not be an indication of the fixture's full rated capability. Values are set to optimize performance, such as reducing dead travel, ensuring that fixtures turn on at low end, reducing turn-on time at low end, and trimming out instability. Software trim values are indicated in parentheses when applicable.</p> <p>(4) Perceived light level percentage is the square root of the measured light level percentage, per IESNA Lighting Handbook.</p> <p>(5) Interfaces have been tested with the listed control; any compatible dimmer may be used instead, but high end/low end light levels may vary slightly.</p>						

Test Comments: Performance verified with up to 13 fixtures per control.

For any questions on this report, please contact the Lutron LED Center of Excellence at 877-DIM-LED8 or leds@lutron.com. This information was posted with the consent and cooperation of the device manufacturer. Please be aware that device manufacturers may modify their product at any time, without notice to Lutron, and therefore Lutron cannot ensure future compatibility. For more detailed and up to date fixture specifications, performance and/or any related recall information, visit the manufacturer's website. The latest Lutron test results can always be found at [www.lutron.com/LEDtool](http://www.lutron.com/LEDtool).