



# LUTRON® Product Report Card

ID 1245

**Manufacturer:** Havells Sylvania  
**Model Number Tested:** RefLED+ ES50 DIM 305lm

Other Model Numbers: 0026801, 0026804, 0026803, 0026790, 0026791, 0026792

**Manufacturer's Description**

Type of device: LED 6.5W PAR16 GU10  
 Operating voltage: 240V  
 Input Power: 6.5 W  
 Input Current: 0.04 A  
 Input Frequency: 50Hz

Control Type: Forward and Reverse Phase Control  
 Dimming Range: Not Specified  
 Output Power: Not Specified  
 Lumen Output: 305 lm  
 Type/Shape: PAR16  
 Base Type: GU10

**Lutron Test Results**

Date Tested: 13-Dec-13  
 Test Voltage: 240 V  
 Test Notes: Test results valid only at 240V 50Hz.

**Lutron Recommended Compatible Products**

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

Product	Model Number	Fixtures per Dimmer		Measured Dimming Range <sup>(1)</sup>		Perceived Low End <sup>(2)</sup>	Comments <sup>(3)</sup>
		Minimum	Maximum	Low End	High End		
<i>Wallbox Dimmers</i>							
<i>No applicable results</i>							
<i>Commercial Systems</i>							
Panel Module	HW/LP-RPM-4A-230	1	61	8%	97%	28%	Buzzing may be noticeable. Set load type to FP. Rating is per channel; total per module is 61.
Grafik QS	Grafik Eye QS Main Unit Family, 240V	1	16	8%	98%	29%	Buzzing may be noticeable. Rating is per output; total quantity per Main Unit is 48/64/73 for 3/4/6-Zone units, respectively.
Grafik Eye	GRX-3104-CE	1	25	9%	98%	30%	Buzzing may be noticeable. Rating is per output; total quantity per Main Unit is 50/71/71/71 for 2/3/4/6-Zone units, respectively.
Homeworks QS / ESN Phase Adaptive	LQSE-4A-D ( )*/ QSNE-4A-D ( )*	1	54	7%	99%	27%	Buzzing may be noticeable. Equivalent performance in forward phase. Set load type to RP. Rating is for Zone 1. Rating for Zones 2-4 is 54.
<i>Residential Systems</i>							
Panel Module	HW/LP-RPM-4A-230	1	61	8%	97%	28%	Buzzing may be noticeable. Set load type to FP. Rating is per channel; total per module is 61.
Homeworks QS / ESN Phase Adaptive	LQSE-4A-D ( )*/ QSNE-4A-D ( )*	1	54	7%	99%	27%	Buzzing may be noticeable. Equivalent performance in forward phase. Set load type to RP. Rating is for Zone 1. Rating for Zones 2-4 is 54.
<i>Interfaces<sup>(4)</sup></i>							
	NGRX-PB-CE	1	38	9%	100%	31%	Buzzing may be noticeable.
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) Values are based on light output using the specified dimming control, and may not be an indication of the fixture's full rated capability</p> <p>(2) Perceived light level percentage is the square root of the measured light level percentage, per IESNA Lighting Handbook</p> <p>(3) Load types of FP and RP represent Forward Phase and Reverse Phase, respectively. See product literature for details.</p> <p>(4) 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 23 fixtures per control. Maximum Fixtures per Dimmer value represents the maximum safe loading of the control. Buzzing may be noticeable.

*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. Latest test results can always be found at [www.lutron.com/LEDtool](http://www.lutron.com/LEDtool).*