



## Product Report Card

**Manufacturer:** Eaton

**Model Number Tested:** HLB6099301EMWR

Other Model Numbers: HLB6099401EMWR, HLB6S099301EMWR, HLB6S099401EMWR

### Manufacturer's Description

Type of Device: LED 14 W Downlight

Operating Voltage: 120

Input Power: 14 W

Input Current: 0.12 A

Input Frequency: 60 Hz

Control Type: Forward and Reverse Phase Control

Dimming Range: Not Specified

Output Power: Not Specified

Lumen Output: 900 lm

Type/Shape: Downlight

Base Type: N/A

### Lutron Test Results

Date Tested 02/13/2019

Test Voltage 120 V

Test Notes Test results valid only at 120V and 60 Hz.

### 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>Commercial Systems</i>							
Stanza	SZ-6ND	FP	1 - 4	10%	97%	32%	
Panel Module	HW/LP-RPM-4A-120	RP	1 - 79	10%	99%	32%	
Panel Module	HW/LP-RPM-4U-120	FP	1 - 22	10%	99%	32%	
Grafik QS/Wallbox Power Module	Grafik Eye QS Main Unit Family/LQRJ-WPM-6P	FP	1 - 22	10%	99%	32%	
Panel Module	GP (Harrier) Card	FP	1 - 22	10%	98%	32%	Rating is per output. Use load type 2-1.
Grafik Eye 3000/HomeWorks	Grafik Eye 3000 Family/HWI-WPM-6D-120	FP	1 - 22	10%	99%	32%	
HomeWorksQS/myRoom	LQSE-4A1-D/MQSE-4A1-D/MQSE-3A1/MQSE-2A1-D, 120V, RP	RP	1 - 7	10%	100%	32%	

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			Min-Max	Low End	High End		
Grafik T	Phase Selectable GT-5NEM/ GTJ-5NEM	RP	1 - 17	10%	97%	32%	
Vive	MRF2S-6ELV	RP	1 - 10	9%	98%	29%	
Vive	MRF2S-6CL	FP	1 - 10	10%	94%	31%	
<b>Interfaces</b>							
Power Modules	PHPM-PAwith Grafik Eye QS Main Unit	RP	1 - 127	10%	100%	32%	
Power Modules	PHPM-WBXwith 3-wire fluorescent control	RP	1 - 127	10%	100%	32%	
<b>Residential Systems</b>							
RadioRA 2	RRD-10ND	FP	1 - 10	9%	99%	30%	
HomeWorks QS	HQRD-10ND	FP	1 - 10	9%	99%	30%	
RadioRA 2	RRD-6NA	RP	1 - 10	9%	98%	29%	
HomeWorks QS	HQRD-6NA	RP	1 - 10	9%	98%	29%	
HomeWorks	HxD-6ND	FP	1 - 4	10%	97%	32%	
Panel Module	HW/LP-RPM-4A-120	RP	1 - 79	10%	99%	32%	
Panel Module	HW/LP-RPM-4U-120	FP	1 - 22	10%	99%	32%	
Grafik QS/Wallbox Power Module	Grafik Eye QS Main Unit Family/LQRJ-WPM-6P	FP	1 - 22	10%	99%	32%	
Panel Module	GP (Harrier) Card	FP	1 - 22	10%	98%	32%	Rating is per output. Use load type 2-1.
Grafik Eye 3000/HomeWorks	Grafik Eye 3000 Family/HWI-WPM-6D-120	FP	1 - 22	10%	99%	32%	
RadioRA 2	RRD-6CL (R3)	FP	1 - 10	10%	94%	31%	
HomeWorks QS	HQRD-6CL (H2)/HQRA-6CL (H2)	FP	1 - 10	10%	94%	31%	
RadioRA 2	Hybrid Keypad C.L RRD-HN6BRL	FP	1 - 7	10%	94%	32%	Installation with a neutral wire is required.
HomeWorks QS	Hybrid Keypad C.L HQRD-HN6BRL	FP	1 - 7	10%	94%	32%	Installation with a neutral wire is required.
HomeWorksQS/myRoom	LQSE-4A1-D/MQSE-4A1-D/MQSE-3A1/MQSE-2A1-D, 120V, RP	RP	1 - 7	10%	100%	32%	
Grafik T	Phase Selectable GT-5NEM/ GTJ-5NEM	RP	1 - 17	10%	97%	32%	
Homeworks QS	LQSE-4A-120-D, RP	RP	1 - 16	10%	100%	32%	

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		
<b>WallBox Dimmers</b>							
Diva/Skylark/Skylark Contour/Ariadni/Toggler/ Lumea	CL wall-mount dimmers (T8, T9)	FP	1 - 10	10%	97%	32%	
Maestro	MACL-153M (TX)	FP	1 - 10	10%	96%	32%	
Maestro Wireless	MRF2-6ELV	RP	1 - 10	9%	98%	29%	Load type not selectable.
Maestro Sensor	MSCL-OP153M (T2)/MSCL-VP153M (T2)	FP	1 - 10	10%	92%	31%	
Caseta Wireless	PD-6WCL (SD11)	FP	1 - 10	10%	93%	31%	
Maestro Wireless	MRF2-6CL (M6)	FP	1 - 10	10%	94%	31%	
Grafik T	Phase Selectable GT-5NEM/ GTJ-5NEM	RP	1 - 17	10%	97%	32%	
Diva/Skylark ContourReverse Phase LED Preset Dimmers	DVRP-253PCTRP-253P	RP	1 - 17	4%	100%	19%	
Nova T*Reverse Phase LEDSlide to-off Dimmer	NTRP-250	RP	1 - 17	0%	100%	0%	
Skylark Contour Slide to-off	CTCL-150	FP	1 - 10	10%	97%	32%	
Caseta WirelessPhase Selectable	PD-5NE	RP	1 - 17	10%	98%	32%	
Maestro	MACL-LFQ	FP	1 - 5	10%	97%	32%	
Lumea Slide-to-Off	LECL-150H	FP	1 - 10	10%	97%	32%	
Caseta Wireless	PD-6WCL (SD12)	FP	1 - 10	10%	94%	32%	
Notes:	<ul style="list-style-type: none"> <li>* Identical model numbers with different compatibility codes may have different performance; ( ) means there is no compatibility code assigned; contact technical support for additional information.</li> <li>(1) Control types of FP and RP represent Forward Phase and Reverse Phase, respectively. See product literature for details.</li> <li>(2) Maximum Fixtures per Dimmer value represents the maximum safe loading of the control.</li> <li>(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.</li> <li>(4) Perceived light level percentage is the square root of the measured light level percentage, per IESNA Lighting Handbook.</li> <li>(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.</li> </ul>						

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.