



## Product Report Card

**Manufacturer:** Collingwood  
**Model Number Tested:** BDL11F28MM  
 Other Model Numbers: with LED driver- PBMD480DTW

### Manufacturer's Description

Type of Device: <u>LED 10 W Downlight</u>	Control Type: <u>Forward and Reverse Phase Control</u>
Operating Voltage: <u>240</u>	Dimming Range: <u>Not Specified</u>
Input Power: <u>10 W</u>	Output Power: <u>Not Specified</u>
Input Current: <u>0.043 A</u>	Lumen Output: <u>600 lm</u>
Input Frequency: <u>50 Hz</u>	Type/Shape: <u>Downlight</u>
	Base Type: <u>N/A</u>

### Lutron Test Results

Date Tested 08/31/2021  
 Test Voltage 240 V  
 Test Notes Test results valid only at 240V and 50 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>							
HomeWorks QS/ESN Phase Adaptive	LQSE-4A-D (Gen. 2)/QSNE-4A-D (Gen. 2)	RP	1 - 25	10%	96%	32%	Rating is per zone. Performance may vary with dimmers manufactured before March 2014.
Vive	RMKS-250NE RMMS-250NE RMQS-250NE RMNS-250NE	RP	1 - 15	10%	93%	31%	
Energi Savr Node DIN-Rail (240 V PRO LED+ Phase Adaptive)	QSNE-4A5-230-D (Zone 1 - Reverse-Phase)	RP	1 - 40	10%	96%	31%	
Energi Savr Node DIN-Rail (240 V PRO LED+ Phase Adaptive)	QSNE-4A5-230-D (Zone 2-4 - Reverse-Phase)	RP	1 - 25	10%	96%	31%	Rating is per zone
<i>Interfaces</i>							
<i>No applicable results</i>							
<i>Residential Systems</i>							
HomeWorks QS/ESN Phase Adaptive	LQSE-4A-D (Gen. 2)/QSNE-4A-D (Gen. 2)	RP	1 - 25	10%	96%	32%	Rating is per zone. Performance may vary with dimmers manufactured before March 2014.

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		
RA2 Select	RRK-R25NE-240 RRM-R25NE-240 RRQ-R25NE-240 RRN-R25NE-240	RP	1 - 15	10%	93%	31%	
Homeworks QS	HQRK-R25NE-240 HQRN-R25NE-240 HQRQ-R25NE-240 HQRN-R25NE-240	RP	1 - 15	10%	93%	31%	
RA2 Select	RRx-P20-240y	RP	1 - 15	10%	93%	31%	
HomeWorks	HQRx-P20-240y	RP	1 - 15	10%	93%	31%	
HomeWorks DIN-Rail Power Module (240 V PRO LED+ Phase Adaptive)	LQSE-4A5-230-D (Zone 1 - Reverse-Phase)	RP	1 - 40	10%	96%	31%	
HomeWorks DIN-Rail Power Module (240 V PRO LED+ Phase Adaptive)	LQSE-4A5-230-D (Zone 2-4 - Reverse-Phase)	RP	1 - 25	10%	96%	31%	Rating is per zone

### WallBox Dimmers

No applicable results

#### Notes:

- \* Identical model numbers with different compatibility codes may have different performance; ( ) means there is no compatibility code assigned; contact technical support for additional information.
- (1) Control types of FP and RP represent Forward Phase and Reverse Phase, respectively. See product literature for details.
- (2) Maximum Fixtures per Dimmer value represents the maximum safe loading of the control.
- (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.
- (4) Perceived light level percentage is the square root of the measured light level percentage, per IESNA Lighting Handbook.
- (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.

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).