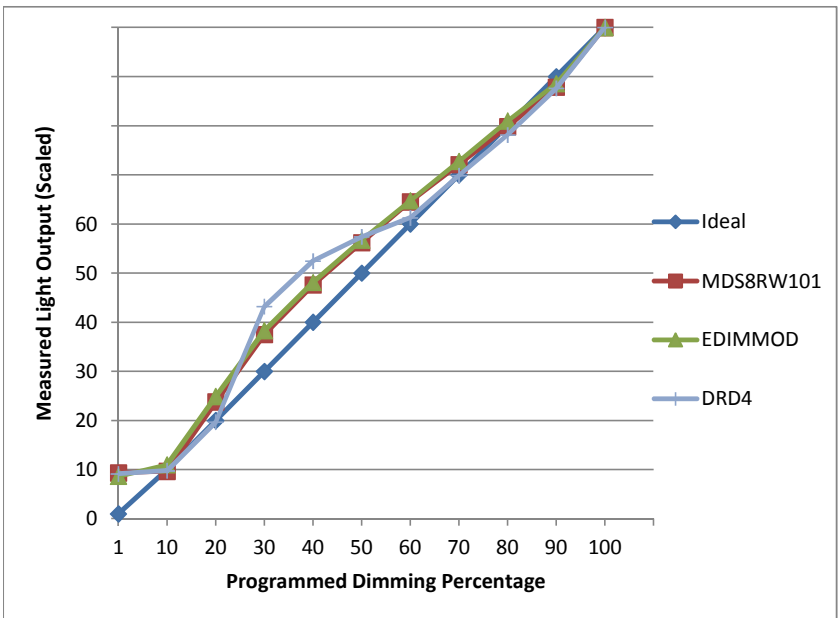


**Manufacturer** OSRAM Sylvania  
**Model** LED12A19/DIM/F/927  
**Description** A19 Lamp Replacement - 60W equivalent  
**Driver** internal  
**Nominal Power (W)** 12  
**Dimming Control** Line voltage, forward- and reverse-phase control  
**Product Range** Ultra LED High Performance Series  
**Test Date** 6/15/2011

Dimmer Tested Against:	MDS8RW101	EDIMMOD	DRD4
Pass/Fail	Pass	Pass	Pass
Best-Fit Power Profile:			Standard
Minimum ON	10	8	3
Maximum ON	90	90	
Adjust	100	100	
Light Output Range (vs. non-dimmed)			
Maximum (Perceived)	97.1%	96.5%	100.0%
Minimum (Perceived)	9.1%	8.3%	9.1%
Minimum (Measured)	0.8%	0.7%	0.8%

Linearity Curves (Best-fit Power Profile Applied):



**Observations:**

Level stepping was observed throughout the entire dimming range for all dimmers. During a fade or ramp of the dimming level, these steps result in what would appear to be flicker.

At very low lighting levels some occasional strobing was observed.

Lamp hums / buzzes faintly when dimmed, both forward- and reverse-phase.

Low-end trim avoids pronounced dimming step near lower end of range.

High-end trim not necessary for linearity.

There are no minimum load issues using any Vantage-branded dimmers.