

## General Description

Our 0–10V dimming option provides access to multiple drive currents and provides the flexibility to utilize combinations of these currents to optimize lumen output and energy savings needs. As the product is dimmed all LEDs are operated at the same current for maximum longevity and lumen maintenance.

Unlike traditional source technologies, LED performance improves when dimmed in terms of efficacy, longevity and lumen maintenance. For example, a 525mA product dimmed to 75mA consumes only 12% of the energy, but provides 33% of the light output of the same product operating at 525mA. This powerful combination allows for the selection of luminaires capable of delivering high levels of sustainable illumination performance when desired, but with the ability to be dimmed to deliver lower levels of illumination when appropriate with even greater energy savings.

If dimming leads remain open (factory shipped), luminaire will run at full power.

The 0–10V dimming control interface is compliant with the IEC EN 60929 Annex E which establishes controls for fluorescent products.

Several commercially available network dimming control systems are being qualified for use with our dimming option. These are typically factory installed into the luminaire and are purchased with a complete control system, please consult factory for more details.

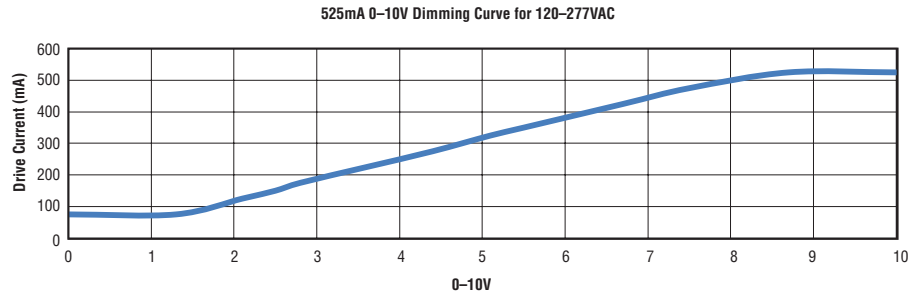
## Notes:

### 0 – 10V Dimming Option – 525mA 120–277VAC

Note: For use with products when 525mA drive current is specified. Specified drive current represents the maximum drive current that will be available with dimming option. Specifying the maximum allowed drive current for your product will provide the greatest range of dimming.

0 – 10V	Current (mA)	System Watts Multiplier	Lumen Multiplier
≤ 1.3	75	0.15	0.15
2.1	125	0.26	0.27
2.5	150	0.31	0.31
2.8	175	0.36	0.37
3.6	225	0.45	0.45
4.4	275	0.55	0.53
5.1	325	0.64	0.62
5.5	350	0.67	0.70
6.7	425	0.83	0.80
7.5	475	0.92	0.89
≥8.7	525	1.00	1.00

NOTE: Multipliers are for estimating purposes only. Check actual spec sheet data where available.

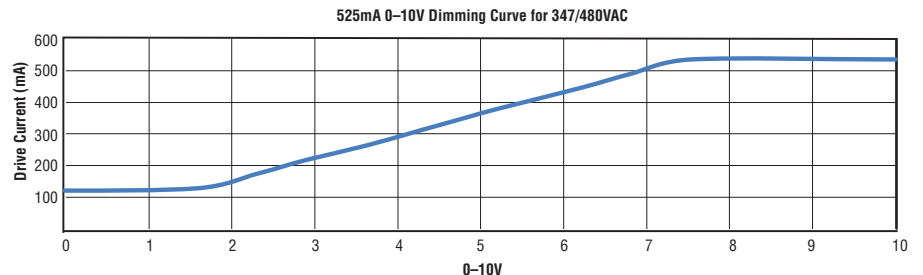


### 0 – 10V Dimming Option – 525mA 347–480VAC

Note: For use with products when 525mA drive current is specified. Specified drive current represents the maximum drive current that will be available with dimming option. Specifying the maximum allowed drive current for your product will provide the greatest range of dimming.

0 – 10V	Current (mA)	System Watts Multiplier	Lumen Multiplier
≤ 1.3	75	0.15	0.15
2.1	125	0.26	0.27
2.5	150	0.31	0.31
2.8	175	0.36	0.37
3.6	225	0.45	0.45
4.4	275	0.55	0.53
5.1	325	0.64	0.62
5.5	350	0.67	0.70
6.7	425	0.83	0.80
7.5	475	0.92	0.89
≥8.7	525	1.00	1.00

NOTE: Multipliers are for estimating purposes only. Check actual spec sheet data where available.

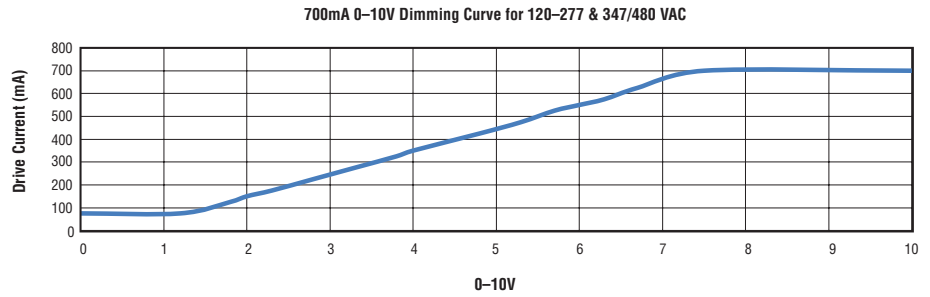


## 0 – 10V Dimming Option – 700mA 120–277V & 347–480VAC

Note: For use with products when 700mA drive current is specified. Specified drive current represents the maximum drive current that will be available with dimming option. Specifying the maximum allowed drive current for your product will provide the greatest range of dimming.

0 – 10V	Current (mA)	System Watts Multiplier	Lumen Multiplier
≤1.2	75	0.14	0.12
1.8	125	0.19	0.21
2.0	150	0.23	0.25
2.3	175	0.26	0.29
2.8	225	0.33	0.35
3.3	275	0.40	0.42
3.8	325	0.47	0.49
4.0	350	0.49	0.56
4.8	425	0.60	0.63
5.3	475	0.67	0.70
5.7	525	0.73	0.79
6.0	550	0.78	0.80
6.3	575	0.81	0.84
6.7	625	0.88	0.91
≥7.5	700	1.00	1.00

NOTE: Multipliers are for estimating purposes only. Check actual spec sheet data where available.

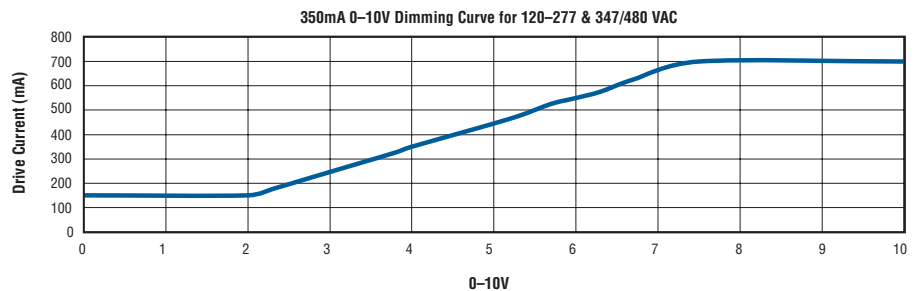


## 0 – 10V Dimming Option – 350mA 120–277V & 347–480VAC

Note: For use with products when 350mA drive current is specified. Specified drive current represents the maximum drive current that will be available with dimming option. Specifying the maximum allowed drive current for your product will provide the greatest range of dimming.

0 – 10V	Current (mA)	System Watts Multiplier	Lumen Multiplier
≤2.0	75	0.20	0.22
2.3	88	0.23	0.29
2.8	113	0.31	0.35
3.3	138	0.38	0.41
3.8	163	0.45	0.48
4.0	175	0.49	0.52
4.8	213	0.59	0.60
5.3	238	0.66	0.66
5.7	263	0.74	0.73
6.0	275	0.77	0.76
6.3	288	0.81	0.79
6.7	313	0.88	0.85
≥7.5	350	1.00	1.00

NOTE: Multipliers are for estimating purposes only. Check actual spec sheet data where available.

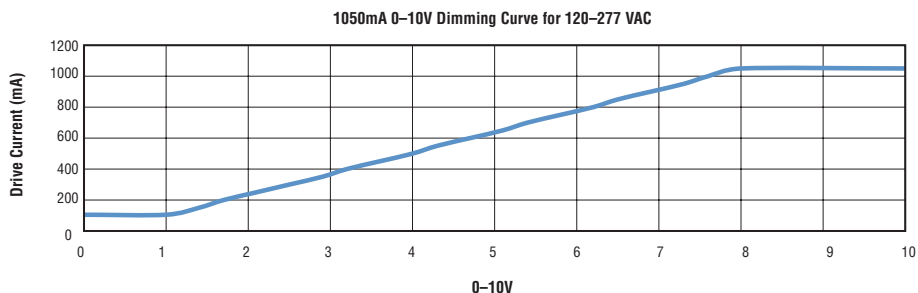


## 0 – 10V Dimming Option – 1050mA 120–277V

Note: For use with products when 1050mA drive current is specified. Specified drive current represents the maximum drive current that will be available with dimming option. Specifying the maximum allowed drive current for your product will provide the greatest range of dimming.

0 – 10V	Current (mA)	System Watts Multiplier	Lumen Multiplier
≤1.0	105	0.07	0.19
1.4	150	0.11	0.23
1.6	175	0.13	0.25
1.7	200	0.15	0.27
2.1	250	0.20	0.31
2.5	300	0.24	0.35
2.9	350	0.29	0.39
3.2	400	0.33	0.43
3.6	450	0.38	0.47
4.0	500	0.42	0.51
4.2	525	0.44	0.53
4.3	550	0.47	0.55
4.7	600	0.51	0.59
5.1	650	0.56	0.63
5.4	700	0.60	0.67
5.8	750	0.65	0.71
6.2	800	0.69	0.75
6.5	850	0.74	0.79
6.9	900	0.78	0.83
7.3	950	0.83	0.87
7.6	1000	0.87	0.91
≥8.0	1050	1.00	1.00

NOTE: Multipliers are for estimating purposes only. Check actual spec sheet data where available.



LEDway®		
Series D <sup>1</sup>		
Dimming Option	Voltage	LEDway®
350mA	120–277	20–120 LED
	347/480	20–120 LED
525mA	120–277	20–120 LED
	347/480	20–120 LED
700mA	120–277	20–120 LED
	347/480	20–120 LED

<sup>1</sup> Dimming option not available with any mult-level options

SLM			
Series D <sup>1</sup>			
Dimming Option	Voltage	SLM Street Luminaire	SLM Area Luminaire
525mA	120–277	20–60 LED	20–60 LED
	347/480	20–60 LED	20–60 LED
700mA	120–277	20–60 LED	20–60 LED
	347/480	20–60 LED	20–60 LED
1 AMP (1000mA)	120–277	20–40 LED	20–40 LED
	347/480	N/A	N/A

<sup>1</sup> Dimming option not available with any mult-level options



# LED Dimming Options

Rev. Date: 2/28/12

304 Series												
Series D <sup>1</sup>												
Dimming Option	Voltage	Floodlight	Parking Structure			Recessed Canopy			Recessed Interior		Recessed Soffit	
		YM Mount	DM Mount	HC Mount	PD Mount	RS Mount	RD Mount	RT Mount	RM Mount	IC Rated RM Mount	RM Mount	IC Rated RM Mount
350mA	120-277	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED
	347/480	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED
525mA	120-277	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	N/A
	347/480	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED	N/A
700mA	120-277	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED <sup>2</sup>	40-60 LED <sup>2</sup>	N/A	N/A	N/A	N/A	N/A
	347/480	40-60 LED	40-60 LED	40-60 LED	40-60 LED	40-60 LED <sup>2</sup>	40-60 LED <sup>2</sup>	N/A	N/A	N/A	N/A	N/A

<sup>1</sup> Dimming option not available with any multi-level options  
<sup>2</sup> Marked spacing required

THE EDGE®								
Series D <sup>1</sup>								
Dimming Option	Voltage	THE EDGE® Area			THE EDGE® Round Area	THE EDGE® Canopy	THE EDGE® Parking	THE EDGE Security
		DA, DL, AA Mounts	R3, R4 Mounts	SA Mount				
350mA	120-277	20-240 LED	40-240 LED	20-60 LEDs	40-120 LED	40-240 LED	40-100 LED	20-120 LED
	347/480	20-240 LED <sup>2,3</sup>	40-240 LED <sup>2,3</sup>	20-60 LEDs	40-120 LED <sup>2,3</sup>	40-240 LED <sup>2,3</sup>	40-100 LED <sup>2,3</sup>	20-120 LED <sup>2,3</sup>
525mA	120-277	20-160 LED	40-160 LED	20-60 LEDs	40-120 LED	40-160 LED	40-100 LED	20-80 LED
	347/480	20-160 LED <sup>2,3</sup>	40-160 LED <sup>2,3</sup>	20-60 LEDs	40-120 LED <sup>2,3</sup>	40-160 LED <sup>2,3</sup>	40-100 LED <sup>2,3</sup>	20-80 LED <sup>2,3</sup>
700mA	120-277	20-60 LED	20-60 LEDs	20-60 LEDs	40-60 LED	40-60 LED	40-60	20-60 LED
	347/480	20-60 LED <sup>2,3</sup>	20-60 LED <sup>2,3</sup>	20-60 LEDs	40-60 LED <sup>2,3</sup>	40-60 LED <sup>2,3</sup>	40-60 LED <sup>2,3</sup>	20-60 LED <sup>2,3</sup>

<sup>1</sup> Dimming option not available with any multi-level option  
<sup>2</sup> P (Photocell) option not available on 480 VAC  
<sup>3</sup> Not available with F (Fuse) option

227 Series				
Series D <sup>1</sup>				
Dimming Option	Voltage	Recessed Canopy	Recessed Soffit	
		RM Mount	RM Mount	RR Mount
350mA	120-277	30-120 LED	30-120 LED	30 LED
	347/480	30-120 LED	30-120 LED	30 LED
525mA	120-277	30-120 LED	30-120 LED	30 LED
	347/480	30-120 LED	30-120 LED	30 LED
700mA	120-277	30-120 LED <sup>2</sup>	30-120 LED <sup>2</sup>	N/A
	347/480	30-120 LED <sup>2</sup>	30-120 LED <sup>2</sup>	N/A

<sup>1</sup> Dimming option not available with any multi-level option  
<sup>2</sup> Marked spacing required

OL Series		
Series D		
Dimming Option	Voltage	OL Series
350mA	120-277	14-112 LED
	347/480	14-112 LED
525mA	120-277	14-112 LED
	347/480	14-112 LED
700mA	120-277	14-112 LED
	347/480	14-112 LED



© 2012 Ruud Lighting Inc. – A Cree Company. All rights reserved. The information in this document is subject to change without notice.  
 9201 Washington Ave • Racine, WI 53406-3772 • 800-236-6800 • www.BetaLED.com

Made in the U.S.A. of U.S. and imported parts.  
 Meets Buy American requirements within the ARRA.