

# Title 20 California State Appliance Energy Regulation

## Overview Flyer

### Metal Halide Ballast Efficiency Requirements

#### The Acuity Brands Lighting Solution

Acuity Brands Lighting is committed to compliance of California Title 20 regulations. The following matrices provide an overview of recommended means of compliance. More information about California Title 20 regulations can be found at [www.AcuityBrands.com](http://www.AcuityBrands.com). If an option is not shown, please contact your ABL sales representative. Current as of December 2009.

#### Indoor Metal Halide Applications

Lamp Wattage	Application Orientation	Recommended Title 20 Compliant SOLUTION #1	Recommended Title 20 Compliant SOLUTION #2	Recommended Title 20 Compliant SOLUTION #3
150	Any	Allowed; no change required		
150	Base Up ± 15°	Allowed; no change required		
175	Any	Use 150W system	Use 200W system	
175	Base Up ± 15°	Use Integrated Motion Sensor (KWIS)	Use 150W system	Use 200W system
200	Any	Allowed; no change required		
200	Base Up ± 15°	Allowed; no change required	Use Integrated Motion Sensor (KWIS)	
250	Any	Use 200W system	Use 320W system	
250	Base Up ± 15°	Use Integrated Motion Sensor (KWIS)	Use 200W system	Use 320W system
320	Any	Allowed; no change required	Use Electronic Ballast (>= 92% efficient)	
320	Base Up ± 15°	Allowed; no change required	Use Electronic Ballast (>= 92% efficient)	Use Integrated Motion Sensor (KWIS)
350	Any	Use Electronic Ballast (>= 92% efficient)		
350	Base Up ± 15°	Use Electronic Ballast (>= 92% efficient)	Use Integrated Motion Sensor (KWIS)	
360	Any	Use Electronic Ballast (>= 92% efficient)		
360	Base Up ± 15°	Use Electronic Ballast (>= 92% efficient)	Use Integrated Motion Sensor (KWIS)	
400	Any	Use Electronic Ballast (>= 92% efficient)		
400	Base Up ± 15°	Use Electronic Ballast (>= 92% efficient)	Use Integrated Motion Sensor (KWIS)	
450	Any	Use 400W lamp with electronic ballast		
450	Base Up ± 15°	Use Integrated Motion Sensor (KWIS)	Use 400W system	

Notes: Unless otherwise indicated, all ballasts used must have a minimum efficiency of 88%

Key:

- No change required
- Different lamp wattage required
- Integrated control required
- Electronic ballast required



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#### Outdoor Metal Halide Applications

Lamp Wattage	Application Orientation	Recommended Title 20 Compliant SOLUTION #1	Recommended Title 20 Compliant SOLUTION #2	Recommended Title 20 Compliant SOLUTION #3
150	Any	Allowed; no change required		
150	Base Up $\pm$ 15°	Allowed; no change required		
175	Any	Use 150W system	Use 200W system	
175	Base Up $\pm$ 15°	Use 150W system	Use 200W system	
200	Any	Allowed; no change required		
200	Base Up $\pm$ 15°	Allowed; no change required		
250	Any	Use 200W system	Use 320W system	
250	Base Up $\pm$ 15°	Use 200W system	Use 320W system	
320	Any	Allowed; no change required		
320	Base Up $\pm$ 15°	Allowed; no change required		
350	Any	Use 320W system		
350	Base Up $\pm$ 15°	Use 320W system		
360	Any	Use 320W system		
360	Base Up $\pm$ 15°	Use 320W system		
400	Any	Use 320W system		
400	Base Up $\pm$ 15°	Use 320W system		
450	Any	Use 320W system		
450	Base Up $\pm$ 15°	Use 320W system		

Notes: Unless otherwise indicated, all ballasts used must have a minimum efficiency of 88%

Key:

Green No change required

Yellow Different lamp wattage required

