# SYLVANIA Lamps

## ULTRA LED™ Selectable HIDr

### Application

ULTRA LED HID replacement lamps are ideal for indoor high/low bay lighting and outdoor decorative post top fixtures in walkway lighting applications. The lumen and CCT selectable option allows for customizable light output replacing up to 400W HID applications.

### Benefits and Features

- Lasts up to 5 times longer than HID lamps
- No warm-up time, instant on with full light output and stable color
- Consumes up to 76% less energy than equivalent HID lamps while delivering same light output
- Lumen and CCT selectable light enabled through physical controls located on the lamp.
- Continuous and standby dimming can be enabled on lamps 80W and higher, when paired with the optional snap-on motion/daylight sensor and remote control
- Passive cooling design (higher reliability with no internal fan)
- Rated for open and enclosed fixtures
- Up to 155 LPW
- 3000K, 4000K and 5000K selectable color temperatures
- CRI 80+
- 360° beam angle (or omnidirectional) with Type V distribution

### Electrical

- 120-277VAC
- Power Factor >90%
- 6kV surge protection

### Rated Life

- 50,000 hours ($L_{70}$)

### Warranty

- Standard 5 year lamp warranty

### Ambient Operating Range

- -40°F to +122°F (-40°C to +50°C)




### Wattage Comparison

| Traditional Source | Traditional System Wattage | LED System Wattage | Energy Savings | Energy Savings Over Lamp Life |
|---|---|---|---|---|
| HID Metal Halide | 50W | 12W | 76% | $209 |
| HID Metal Halide | 70W | 18W | 74% | $286 |
| HID Metal Halide | 100W | 27W | 73% | $401 |
| HID Metal Halide | 150W | 36W | 76% | $627 |
| HID Metal Halide | 150W | 45W | 70% | $577 |
| HID Metal Halide | 175W | 54W | 69% | $665 |
| HID Metal Halide | 250W | 80W | 68% | $935 |
| HID Metal Halide | 320W | 100W | 69% | $1210 |
| HID Metal Halide | 400W | 120W | 70% | $1540 |

### Certifications and Listings

- IP64 Rated
- cULus
- RoHS
- FCC*
- Lead Free
- Mercury Free

*This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Please visit: www.SYLVANIA.com/fccpart15b for more information.

### Installation

- Requires easy ballast by-pass
- Lamp operates directly on line voltage, 120-277VAC

**LED561R6 8-23**

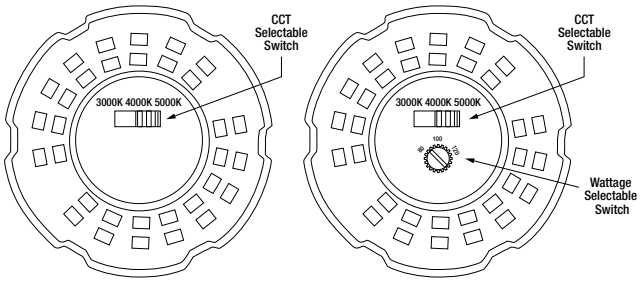
| Catalog # | Type |
|---|---|
| Project | |
| Comments | |
| Prepared by | |

## Ordering Guide

| LED | XXX | HIDR | 8 | SC2 | XXX |
|---|---|---|---|---|---|
| LED<br>LED Lamps and Retrofits | Wattage<br>12, 18, 27, 36, 54, 80, 100 and 120 | Lamp Type<br>HID Replacement | CRI<br>8 = 80+ | Color Temp<br>SC2 = Selectable 3000K, 4000K or 5000K | Base Type<br>MED = E26 Medium Base<br>MOG = EX39 Mogul Base |

## Wattage Selectable Range per Color Temperature

| | | | | CCT Selectable | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 3000K | | 4000K | | 5000K | |
| Item Number | | Power (W) | Wattage Selectable (W) | Total Lumens (lm) | Efficacy (LPW) | Total Lumens (lm) | Efficacy (LPW) | Total Lumens (lm) | Efficacy (LPW) |
| 41006 | LED12HIDR8SC2MED 4/CS 1/SKU | 12W | – | 1680 | 140 | 1860 | 155 | 1800 | 150 |
| 41007 | LED18HIDR8SC2MED 4/CS 1/SKU | 18W | – | 2600 | 144 | 2800 | 155 | 2700 | 150 |
| 41008 | LED27HIDR8SC2MED 4/CS 1/SKU | 27W | 27W | 3780 | 140 | 4200 | 156 | 4050 | 150 |
| | | | 18W | 2400 | 133 | 2700 | 150 | 2700 | 150 |
| | | | 12W | 1600 | 133 | 1900 | 158 | 1800 | 150 |
| 41009 | LED36HIDR8SC2MED 4/CS 1/SKU | 36W | 36W | 5040 | 140 | 5600 | 156 | 5400 | 150 |
| | | | 27W | 3700 | 137 | 4240 | 157 | 4200 | 156 |
| | | | 18W | 2500 | 139 | 2860 | 159 | 2850 | 158 |
| 41010 | LED45HIDR8SC2MOG 4/CS 1/SKU | 45W | 45W | 6300 | 140 | 7000 | 156 | 6750 | 150 |
| | | | 36W | 4900 | 136 | 5500 | 153 | 5400 | 150 |
| | | | 27W | 3700 | 137 | 4250 | 157 | 4200 | 156 |
| 41011 | LED54HIDR8SC2MOG 4/CS 1/SKU | 54W | 54W | 7560 | 140 | 8400 | 156 | 8100 | 150 |
| | | | 45W | 6200 | 138 | 6900 | 153 | 6800 | 151 |
| | | | 36W | 5000 | 139 | 5600 | 156 | 5500 | 153 |
| 41012 | LED80HIDR8SC2MOG 4/CS 1/SKU | 80W | 80W | 11,200 | 140 | 12,400 | 155 | 12,000 | 150 |
| | | | 63W | 8700 | 138 | 9700 | 154 | 9400 | 149 |
| | | | 54W | 7600 | 141 | 8500 | 157 | 8300 | 154 |
| 41013 | LED100HIDR8SC2MOG 4/CS 1/SKU | 100W | 100W | 14,000 | 140 | 15,500 | 155 | 15,000 | 150 |
| | | | 80W | 11,000 | 138 | 12,200 | 153 | 11,800 | 148 |
| | | | 63W | 8800 | 140 | 9800 | 156 | 9600 | 152 |
| 41014 | LED120HIDR8SC2MOG 4/CS 1/SKU | 120W | 120W | 16,800 | 140 | 18,600 | 155 | 18,000 | 150 |
| | | | 100W | 13,800 | 138 | 15,500 | 155 | 14,800 | 148 |
| | | | 80W | 11,300 | 141 | 12,500 | 156 | 12,200 | 153 |




## Ordering Information

| Item Number | Ordering Abbreviation | Base Type | Replaces | Input Voltage (V) | Average Life (hrs) | CRI | Dimming[2,3] | Case Qty | DLC | CEC |
|---|---|---|---|---|---|---|---|---|---|---|
| 41006 | LED12HIDR8SC2MED 4/CS 1/SKU | Medium base | 50W HID | 120-277 | 50,000 | 80+ | No | 4 | No | No |
| 41007 | LED18HIDR8SC2MED 4/CS 1/SKU | Medium base | 70W HID | 120-277 | 50,000 | 80+ | No | 4 | No | Yes |
| 41008 | LED27HIDR8SC2MED 4/CS 1/SKU | Medium base | 100W HID | 120-277 | 50,000 | 80+ | Yes | 4 | No | Yes |
| 41009 | LED36HIDR8SC2MED 4/CS 1/SKU | Medium base | 150W HID | 120-277 | 50,000 | 80+ | Yes | 4 | No | Yes |
| 41010 | LED45HIDR8SC2MOG 4/CS 1/SKU | Mogul base | 150W HID HO[1] | 120-277 | 50,000 | 80+ | Yes | 4 | Yes | Yes |
| 41011 | LED54HIDR8SC2MOG 4/CS 1/SKU | Mogul base | 175W HID | 120-277 | 50,000 | 80+ | Yes | 4 | Yes | Yes |
| 41012 | LED80HIDR8SC2MOG 4/CS 1/SKU | Mogul base | 250W HID | 120-277 | 50,000 | 80+ | Yes | 4 | Yes | Yes |
| 41013 | LED100HIDR8SC2MOG 4/CS 1/SKU | Mogul base | 320W HID | 120-277 | 50,000 | 80+ | Yes | 4 | Yes | Yes |
| 41014 | LED120HIDR8SC2MOG 4/CS 1/SKU | Mogul base | 400W HID | 120-277 | 50,000 | 80+ | Yes | 4 | Yes | Yes |

[1]HO refers to a High Output lumen replacement.
[2]Dimming can be controlled through a physical knob on 27W–120W lamp types or when paired with optional motion/daylight sensor and remote control on 80W–120W lamp types.
[3]Not compatible with other dimmers.

## DLC Information

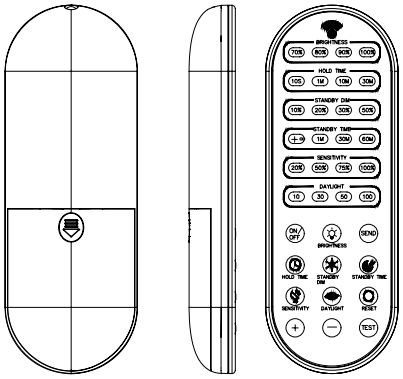
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| 41010 | LED45HIDR8SC2MOG 4/CS 1/SKU | PL8V2Y4FL16Z |
| 41011 | LED54HIDR8SC2MOG 4/CS 1/SKU | PL2OGOJA6D3S |
| 41012 | LED80HIDR8SC2MOG 4/CS 1/SKU | PLQK2K7JJ9SJ |
| 41013 | LED100HIDR8SC2MOG 4/CS 1/SKU | PLFUQ880M2E4 |
| 41014 | LED120HIDR8SC2MOG 4/CS 1/SKU | PLXJP4ISBPH0 |

## Accessory Information*

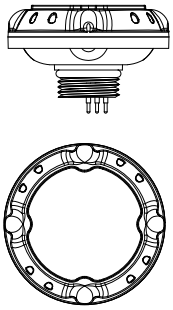
| Item Number | Ordering Abbreviation | Description |
|---|---|---|
| 75055 | LED/ADAPTOR/MOGULBASE** | LED Retrofit HID Mogul Base Adaptor |
| 41145 | LEDHIDRREMOTE | Remote Control |
| 65622 | HIGHBAYMOTIONDAYSENSOR | Motion and Daylight Sensor |
| 63652 | SENSORADAPTOR1A | Sensor adaptor, needed for to incorporate 62634 |
| 62634 | SENSORHBPIRAUX12VBLE | Sensor to enable LEDVANCE LINK compatibility |
| 62636 | WALLSWITCH5KEYBLE | Bluetooth Mesh Low Voltage 5 Button Switch |

*Also compatible with HIDr AREA LIGHT and HIDr High Bay.
**Enables lamps with E26 medium base to be used in EX39 mogul base socket applications.

**Remote Control**



**Motion and Daylight Sensor**



**Mogul Base Adaptor**




**Sensor Adaptor**

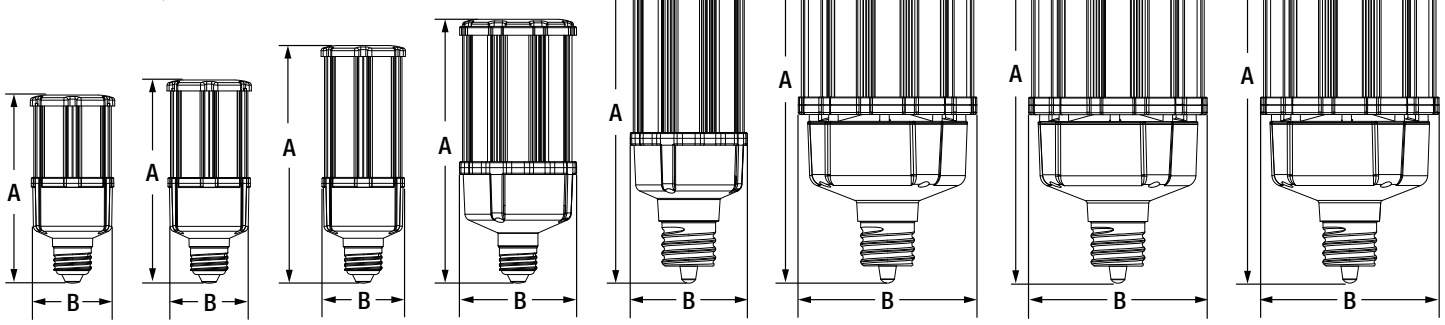


**SENSOR ADAPTOR + 41014 + LEDVANCE LINK SENSOR**



## Physical Information

| Lamp Description | (A) Length (in) | (B) Diameter (in) |
|---|---|---|
| LED HIDr 12W | 5.3 | 2.3 |
| LED HIDr 18W | 5.8 | 2.3 |
| LED HIDr 27W | 6.8 | 2.3 |
| LED HIDr 36W | 7.5 | 3.3 |
| LED HIDr 45W | 9.9 | 3.3 |
| LED HIDr 54W | 9.9 | 3.3 |
| LED HIDr 80W | 9.9 | 5.1 |
| LED HIDr 100W | 10.4 | 5.1 |
| LED HIDr 120W | 11.2 | 5.1 |



## Additional Specifications

- Verify fixture size before installation to ensure fit.
- Dimming function can only be enabled either through a physical knob on 27W–120W lamps or by pairing with a SYLVANIA motion sensor and remote control (purchased separately) for 80W–120W lamps. Dimming is not compatible with other dimmers.
- Not suited with outdoor fixtures with air vents.
- Should not be directly exposed to water.

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www.ledvanceUS.com

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- Passive cooling design (higher reliability with no internal fan)
- Rated for open and enclosed fixtures
- Up to 155 LPW
- 3000K, 4000K and 5000K selectable color temperatures
- CRI 80+
- 360° beam angle (or omnidirectional) with Type V distribution

### Electrical

- 120-277VAC
- Power Factor >90%
- 6kV surge protection

### Rated Life

- 50,000 hours ($L_{70}$)

### Warranty

- Standard 5 year lamp warranty

### Ambient Operating Range

- -40°F to +122°F (-40°C to +50°C)




### Wattage Comparison

| Traditional Source | Traditional System Wattage | LED System Wattage | Energy Savings | Energy Savings Over Lamp Life |
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### Installation

- Requires easy ballast by-pass
- Lamp operates directly on line voltage, 120-277VAC

**LED561R6 8-23**

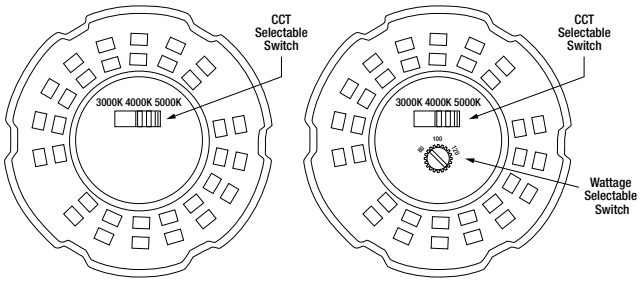
| Catalog # | Type |
|---|---|
| Project | |
| Comments | |
| Prepared by | |

## Ordering Guide

| LED | XXX | HIDR | 8 | SC2 | XXX |
|---|---|---|---|---|---|
| LED<br>LED Lamps and Retrofits | Wattage<br>12, 18, 27, 36, 54, 80, 100 and 120 | Lamp Type<br>HID Replacement | CRI<br>8 = 80+ | Color Temp<br>SC2 = Selectable 3000K, 4000K or 5000K | Base Type<br>MED = E26 Medium Base<br>MOG = EX39 Mogul Base |

## Wattage Selectable Range per Color Temperature

| | | | | CCT Selectable | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 3000K | | 4000K | | 5000K | |
| Item Number | | Power (W) | Wattage Selectable (W) | Total Lumens (lm) | Efficacy (LPW) | Total Lumens (lm) | Efficacy (LPW) | Total Lumens (lm) | Efficacy (LPW) |
| 41006 | LED12HIDR8SC2MED 4/CS 1/SKU | 12W | – | 1680 | 140 | 1860 | 155 | 1800 | 150 |
| 41007 | LED18HIDR8SC2MED 4/CS 1/SKU | 18W | – | 2600 | 144 | 2800 | 155 | 2700 | 150 |
| 41008 | LED27HIDR8SC2MED 4/CS 1/SKU | 27W | 27W | 3780 | 140 | 4200 | 156 | 4050 | 150 |
| | | | 18W | 2400 | 133 | 2700 | 150 | 2700 | 150 |
| | | | 12W | 1600 | 133 | 1900 | 158 | 1800 | 150 |
| 41009 | LED36HIDR8SC2MED 4/CS 1/SKU | 36W | 36W | 5040 | 140 | 5600 | 156 | 5400 | 150 |
| | | | 27W | 3700 | 137 | 4240 | 157 | 4200 | 156 |
| | | | 18W | 2500 | 139 | 2860 | 159 | 2850 | 158 |
| 41010 | LED45HIDR8SC2MOG 4/CS 1/SKU | 45W | 45W | 6300 | 140 | 7000 | 156 | 6750 | 150 |
| | | | 36W | 4900 | 136 | 5500 | 153 | 5400 | 150 |
| | | | 27W | 3700 | 137 | 4250 | 157 | 4200 | 156 |
| 41011 | LED54HIDR8SC2MOG 4/CS 1/SKU | 54W | 54W | 7560 | 140 | 8400 | 156 | 8100 | 150 |
| | | | 45W | 6200 | 138 | 6900 | 153 | 6800 | 151 |
| | | | 36W | 5000 | 139 | 5600 | 156 | 5500 | 153 |
| 41012 | LED80HIDR8SC2MOG 4/CS 1/SKU | 80W | 80W | 11,200 | 140 | 12,400 | 155 | 12,000 | 150 |
| | | | 63W | 8700 | 138 | 9700 | 154 | 9400 | 149 |
| | | | 54W | 7600 | 141 | 8500 | 157 | 8300 | 154 |
| 41013 | LED100HIDR8SC2MOG 4/CS 1/SKU | 100W | 100W | 14,000 | 140 | 15,500 | 155 | 15,000 | 150 |
| | | | 80W | 11,000 | 138 | 12,200 | 153 | 11,800 | 148 |
| | | | 63W | 8800 | 140 | 9800 | 156 | 9600 | 152 |
| 41014 | LED120HIDR8SC2MOG 4/CS 1/SKU | 120W | 120W | 16,800 | 140 | 18,600 | 155 | 18,000 | 150 |
| | | | 100W | 13,800 | 138 | 15,500 | 155 | 14,800 | 148 |
| | | | 80W | 11,300 | 141 | 12,500 | 156 | 12,200 | 153 |




## Ordering Information

| Item Number | Ordering Abbreviation | Base Type | Replaces | Input Voltage (V) | Average Life (hrs) | CRI | Dimming[2,3] | Case Qty | DLC | CEC |
|---|---|---|---|---|---|---|---|---|---|---|
| 41006 | LED12HIDR8SC2MED 4/CS 1/SKU | Medium base | 50W HID | 120-277 | 50,000 | 80+ | No | 4 | No | No |
| 41007 | LED18HIDR8SC2MED 4/CS 1/SKU | Medium base | 70W HID | 120-277 | 50,000 | 80+ | No | 4 | No | Yes |
| 41008 | LED27HIDR8SC2MED 4/CS 1/SKU | Medium base | 100W HID | 120-277 | 50,000 | 80+ | Yes | 4 | No | Yes |
| 41009 | LED36HIDR8SC2MED 4/CS 1/SKU | Medium base | 150W HID | 120-277 | 50,000 | 80+ | Yes | 4 | No | Yes |
| 41010 | LED45HIDR8SC2MOG 4/CS 1/SKU | Mogul base | 150W HID HO[1] | 120-277 | 50,000 | 80+ | Yes | 4 | Yes | Yes |
| 41011 | LED54HIDR8SC2MOG 4/CS 1/SKU | Mogul base | 175W HID | 120-277 | 50,000 | 80+ | Yes | 4 | Yes | Yes |
| 41012 | LED80HIDR8SC2MOG 4/CS 1/SKU | Mogul base | 250W HID | 120-277 | 50,000 | 80+ | Yes | 4 | Yes | Yes |
| 41013 | LED100HIDR8SC2MOG 4/CS 1/SKU | Mogul base | 320W HID | 120-277 | 50,000 | 80+ | Yes | 4 | Yes | Yes |
| 41014 | LED120HIDR8SC2MOG 4/CS 1/SKU | Mogul base | 400W HID | 120-277 | 50,000 | 80+ | Yes | 4 | Yes | Yes |

[1]HO refers to a High Output lumen replacement.
[2]Dimming can be controlled through a physical knob on 27W–120W lamp types or when paired with optional motion/daylight sensor and remote control on 80W–120W lamp types.
[3]Not compatible with other dimmers.

## DLC Information

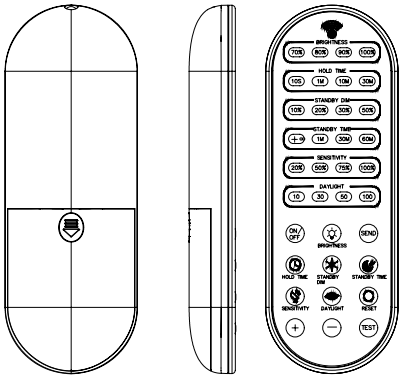
| Item Number | Ordering Abbreviation | DLC Number |
|---|---|---|
| 41010 | LED45HIDR8SC2MOG 4/CS 1/SKU | PL8V2Y4FL16Z |
| 41011 | LED54HIDR8SC2MOG 4/CS 1/SKU | PL2OGOJA6D3S |
| 41012 | LED80HIDR8SC2MOG 4/CS 1/SKU | PLQK2K7JJ9SJ |
| 41013 | LED100HIDR8SC2MOG 4/CS 1/SKU | PLFUQ880M2E4 |
| 41014 | LED120HIDR8SC2MOG 4/CS 1/SKU | PLXJP4ISBPH0 |

## Accessory Information*

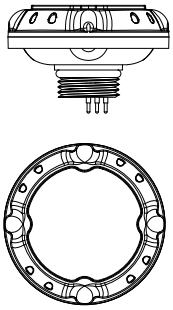
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| 63652 | SENSORADAPTOR1A | Sensor adaptor, needed for to incorporate 62634 |
| 62634 | SENSORHBPIRAUX12VBLE | Sensor to enable LEDVANCE LINK compatibility |
| 62636 | WALLSWITCH5KEYBLE | Bluetooth Mesh Low Voltage 5 Button Switch |

*Also compatible with HIDr AREA LIGHT and HIDr High Bay.
**Enables lamps with E26 medium base to be used in EX39 mogul base socket applications.

**Remote Control**



**Motion and Daylight Sensor**



**Mogul Base Adaptor**




**Sensor Adaptor**

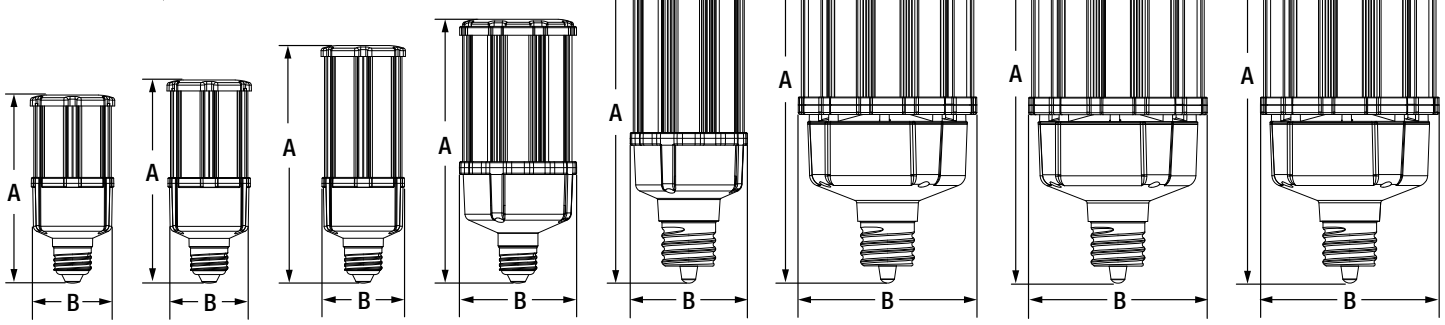


**SENSOR ADAPTOR + 41014 + LEDVANCE LINK SENSOR**



## Physical Information

| Lamp Description | (A) Length (in) | (B) Diameter (in) |
|---|---|---|
| LED HIDr 12W | 5.3 | 2.3 |
| LED HIDr 18W | 5.8 | 2.3 |
| LED HIDr 27W | 6.8 | 2.3 |
| LED HIDr 36W | 7.5 | 3.3 |
| LED HIDr 45W | 9.9 | 3.3 |
| LED HIDr 54W | 9.9 | 3.3 |
| LED HIDr 80W | 9.9 | 5.1 |
| LED HIDr 100W | 10.4 | 5.1 |
| LED HIDr 120W | 11.2 | 5.1 |



## Additional Specifications

- Verify fixture size before installation to ensure fit.
- Dimming function can only be enabled either through a physical knob on 27W–120W lamps or by pairing with a SYLVANIA motion sensor and remote control (purchased separately) for 80W–120W lamps. Dimming is not compatible with other dimmers.
- Not suited with outdoor fixtures with air vents.
- Should not be directly exposed to water.

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