

# RLE Family

## Intelligent High Bay Luminaires

Date: \_\_\_\_\_

Quantity: \_\_\_\_\_

Company: \_\_\_\_\_

Project: \_\_\_\_\_

The RLE luminaire family from Digital Lumens offers superior efficiency, control, and flexibility in the most demanding customer environments, the RLE intelligent LED high-bay luminaire is a high-performance alternative to uncontrolled LED, fluorescent, and HID high-bay luminaires.



### Key Features & Benefits

- Lumen outputs from 18,364 to 65,224 lm
- Narrow and Wide standard optics with optional glass covers for added durability and chemical resistance<sup>1</sup>
- Rotatable light bars and direct/indirect lighting distribution options for uniform lighting across both ceilings and workspaces
- Upgradable socketed intelligence platform for future proof operation

### Maximize Energy Savings

With SiteWorx Tune, customize and apply industry-leading lighting control strategies — including daylight harvesting and off-hour setback — to achieve up to 90% energy savings. Accessible via web and mobile applications, intuitive software provides easy management of lighting system settings and comprehensive reporting tools to maximize energy savings, safety, and visual comfort.

### Instrument for the IIoT

With Digital Lumens intelligent LED luminaires and Digital Light Agent (DLA) lighting controls, your facility is immediately instrumented with SiteWorx, an easily expandable Industrial IoT solution that enables rapid deployment of additional sensor-based applications that extend beyond lighting to deliver even greater operational insight and create new value streams.

### Quality and Reliability

Digital Lumens products are designed and manufactured to satisfy the highest standards of customers worldwide and deliver performance, reliability, and long life.

As an OSRAM business, Digital Lumens solutions are supported by a global network of partners and product specialists.

Our Brand

 DIGITAL LUMENS

**OSRAM**

## Specifications

### SENSING AND CONTROL

#### Onboard Intelligence

- Built-in sensing with data logging
- Energy and fault monitoring
- Protective temperature monitoring and control
- Modular intelligence package

#### Native Sensing

- Integrated PIR occupancy sensor
- Integrated daylight sensor
- Integrated Bluetooth Low Energy (BLE)

#### Wireless Networking

- IEEE 802.15.4 Wireless Mesh

#### Control Capabilities

- On-demand adjustments via mobile and web applications
- kWh and occupancy logging
- Daylight harvesting

#### Dimming

- 0% – 100% continuous

### PERFORMANCE

#### Unified Glare Rating<sup>3</sup>

- 20

#### Power Factor

- 0.9 minimum

#### Surge Protection

- Supplemental surge to 4KV line-line, 4K line-earth

#### Wiring

- Direct wiring with 0.5 inch (13 mm) trade-size knockout

### ENVIRONMENTAL

#### IP Rating<sup>1</sup>

- IP66 indoor use only

#### Operating Temperature<sup>2</sup>

- -40° – 149°F (-40° – 65°C)

#### Maximum Storage Temperature

- 149°F (65°C)

#### Operating Humidity

- 0% – 95%, non-condensing

#### Photobiological Safety

- RGI per IEC TR 62778

### PHYSICAL

#### Mounting Options

- Aircraft Cable or Fixed Mount

#### Luminaire Frame and Hardware

- Steel, powder coated
- Stainless steel, powder coated

#### Optic Material

- Optical grade PC
- Optical grade glass (optional)

#### Optic Options

- Narrow, Wide, Wide Glass, Narrow Glass

### WARRANTY

- 10-Year Limited

### CERTIFICATIONS

- UL/cUL, UL-NOM, CE, FCC Part 15 Class B, RoHS, CISPR 15, Design Lights Consortium (DLC) Premium



## Accessories

Part Number	Description
RHHRM	Fixed mount hanging hardware, compatible with RLE luminaires (5-pack)
DHHAS	Hanging hardware standoff, compatible with RLE and DLE luminaires (100-pack)
DHHSO	Aircraft cable hanging hardware, compatible with RLE and DLE luminaires (100-pack)
RWUL <sup>1</sup>	Pre-wired with wiring door, 10 ft (3 m) whip, 600 V, (UL) SEOOW
RWCE <sup>1</sup>	Pre-wired with wiring door, 10 ft (3 m) whip, 300 V, (CE) H07RN-F

# RLE-D1 ST/HV<sup>4</sup>

## Specifications

### PERFORMANCE

Color Temperature <sup>6</sup> 5,000 K	Color Temperature <sup>6</sup> 4,000 K
Lumen Output (nominal) — 21,925 lm	Lumen Output (nominal) <sup>7</sup> — 18,364 lm
Power Consumption (nominal) — 139 W	Power Consumption (nominal) — 139 W
Efficacy <sup>6</sup> — 157 lm/W	Efficacy <sup>6</sup> — 131 lm/W
CRI — 70 minimum, 72 typical	CRI — 80 minimum, 82 typical
Input Ratings <sup>4,7</sup> — 120 – 277 VAC, 50/60 Hz Standard Voltage (ST) — 347 – 480 VAC, 50/60 Hz High Voltage (HV)	Input Ratings <sup>4,7</sup> — 120 – 277 VAC, 50/60 Hz Standard Voltage (ST) — 347 – 480 VAC, 50/60 Hz High Voltage (HV)

### PHYSICAL

Dimensions (H x W x D)  
— 2.2 x 20.5 x 30.4 in (52 x 522 x 771 mm)

### Weight

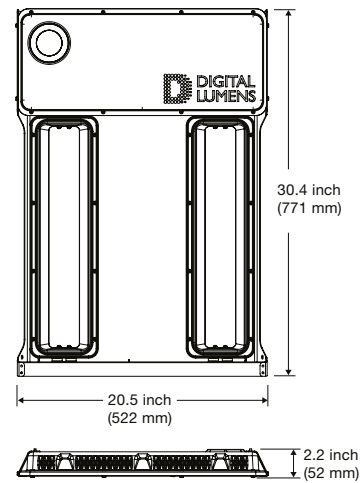
— 13 lbs (5.9 kg)

### LUMEN MAINTENANCE & DRIVER LIFETIME<sup>8,9</sup>

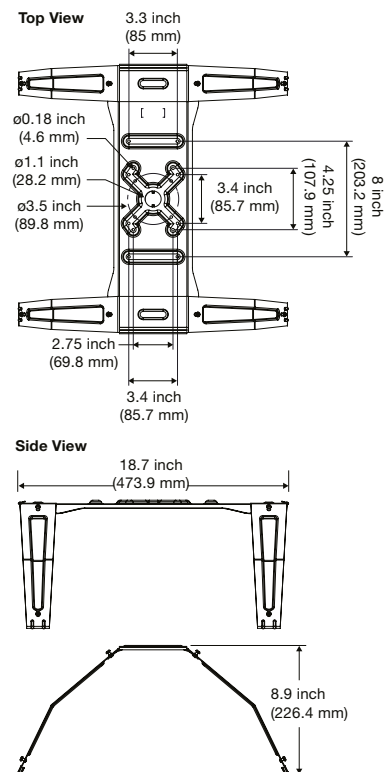
25°C	50°C
L <sup>90</sup> (12k) — > 300,000	— > 300,000
L <sub>80</sub> (12k) — > 300,000	— > 300,000
L <sub>70</sub> (12k) — > 300,000	— > 300,000
Driver Lifetime — 120,000	— 50,000

## Dimensions

### Luminaire



### Rigid Mount Bracket



# RLE-H1 ST/HV<sup>4</sup>

## Specifications

### PERFORMANCE

Color Temperature <sup>6</sup> 5,000 K	Color Temperature <sup>6</sup> 4,000 K
Lumen Output (nominal) — 33,010 lm	Lumen Output (nominal) <sup>7</sup> — 27,868 lm
Power Consumption (nominal) — 207 W	Power Consumption (nominal) — 210 W
Efficacy <sup>6</sup> — 160 lm/W	Efficacy <sup>6</sup> — 132 lm/W
CRI — 70 minimum, 72 typical	CRI — 80 minimum, 82 typical
Input Ratings <sup>4,7</sup> — 120 – 277 VAC, 50/60 Hz Standard Voltage (ST) — 347 – 480 VAC, 50/60 Hz High Voltage (HV)	Input Ratings <sup>4,7</sup> — 120 – 277 VAC, 50/60 Hz Standard Voltage (ST) — 347 – 480 VAC, 50/60 Hz High Voltage (HV)

### PHYSICAL

Dimensions (H x W x D)  
— 2.2 x 20.5 x 30.4 in (52 x 522 x 771 mm)

### Weight

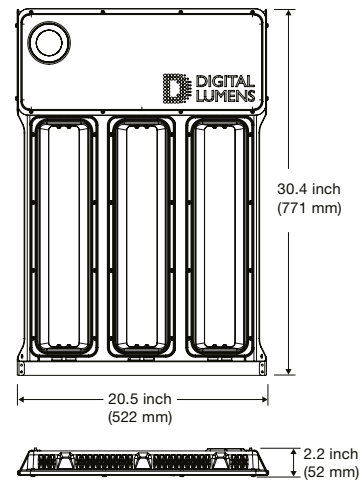
— 14 lbs (6.4 kg)

### LUMEN MAINTENANCE & DRIVER LIFETIME<sup>9</sup>

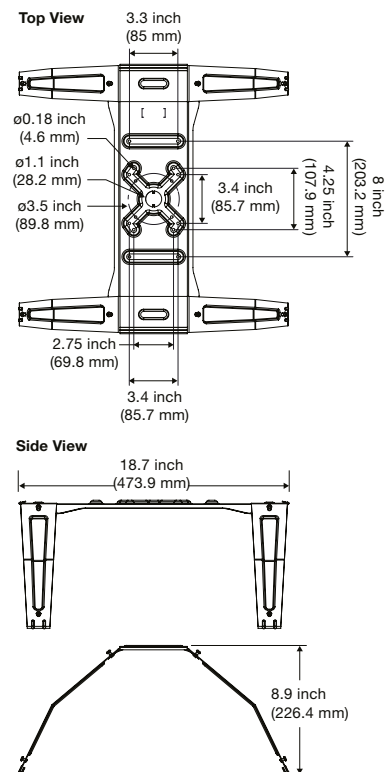
25°C	50°C
L <sup>90</sup> (12k) — > 300,000	— > 300,000
L <sub>80</sub> (12k) — > 300,000	— > 300,000
L <sub>70</sub> (12k) — > 300,000	— > 300,000
Driver Lifetime — 120,000	— 55,000

## Dimensions

### Luminaire



### Rigid Mount Bracket



# RLE-P1 ST/HV<sup>4</sup>

## Specifications

### PERFORMANCE

Color Temperature <sup>6</sup> 5,000 K	Color Temperature <sup>6</sup> 4,000 K
Lumen Output (nominal) — 65,224 lm	Lumen Output (nominal) <sup>7</sup> — 55,160 lm
Power Consumption (nominal) — 408 W	Power Consumption (nominal) — 409 W
Efficacy <sup>6</sup> — 160 lm/W	Efficacy <sup>6</sup> — 135 lm/W
CRI — 70 minimum, 72 typical	CRI — 80 minimum, 82 typical
Input Ratings <sup>4,7</sup> — 120 – 277 VAC, 50/60 Hz Standard Voltage (ST) — 347 – 480 VAC, 50/60 Hz High Voltage (HV)	Input Ratings <sup>4,7</sup> — 120 – 277 VAC, 50/60 Hz Standard Voltage (ST) — 347 – 480 VAC, 50/60 Hz High Voltage (HV)

### PHYSICAL

#### Dimensions (H x W x D)

— 2.2 x 20.5 x 51.9 in (52 x 522 x 1,317 mm)

#### Weight

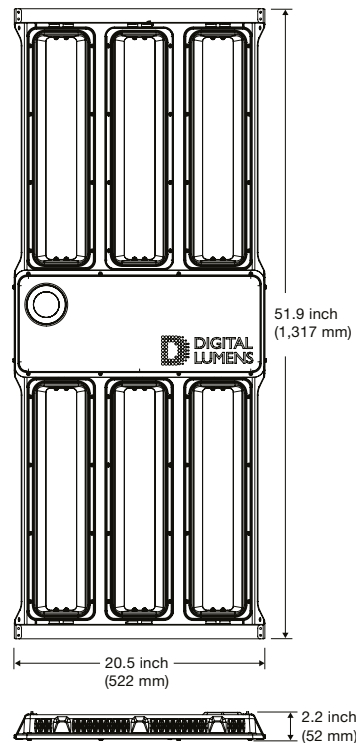
— 25 lbs (11.4 kg)

### LUMEN MAINTENANCE & DRIVER LIFETIME<sup>8,9</sup>

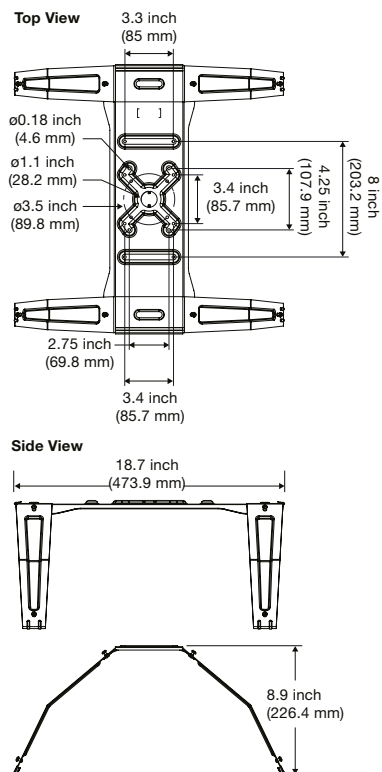
	25°C	50°C
L <sup>90</sup> (12k)	— > 300,000	— > 300,000
L <sub>80</sub> (12k)	— > 300,000	— > 300,000
L <sub>70</sub> (12k)	— > 300,000	— > 300,000
Driver Lifetime	— 120,000	— 55,000

## Dimensions

### Luminaire

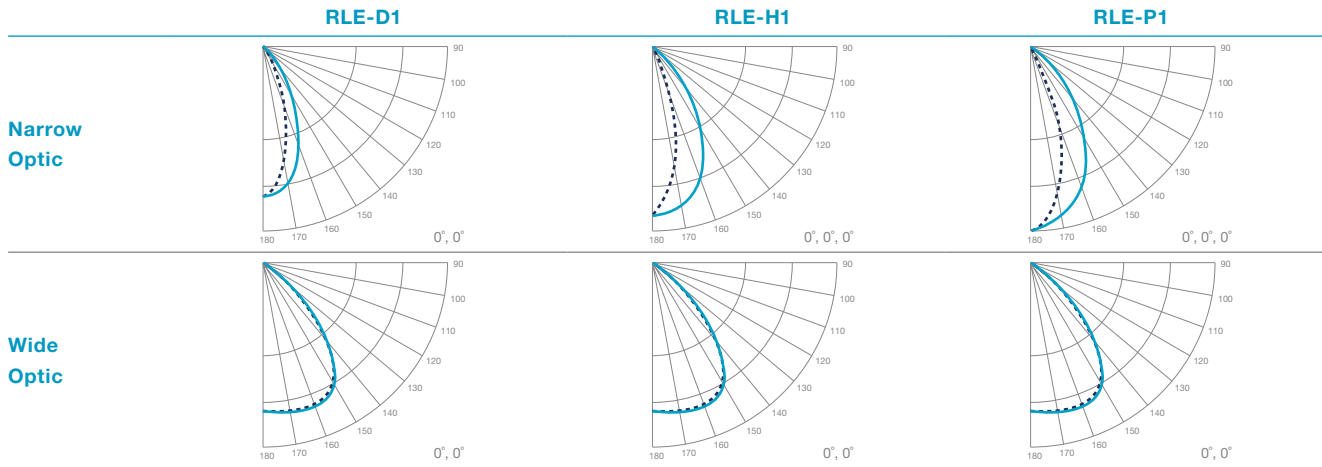


### Rigid Mount Bracket



## Polar Candela Distribution

Fixed Axis ----- Adjustable Axis \_\_\_\_\_



## Ordering Information

The table below provides guidelines for encoding item numbers when ordering RLE luminaires. Select a luminaire type (lumen output), voltage, optic, and CRI/CCT, and then use the hyphenated character codes to build a part number.

Note: For short/standard lead times, select options in **bold**.

Luminaire	Type	Voltage	Optic	CRI/CCT
RLE	<b>-D1</b>	<b>-ST</b> Standard Voltage	<b>-NX</b> Narrow	<b>-840</b> 4,000 K CCT BBDCLE Compatible
	<b>-H1</b>	<b>-HV</b> High Voltage	<b>-WX</b> Wide	<b>-750</b> 5,000 K CCT BBDCLE Compatible
	<b>-P1</b>		<b>-WG</b> Wide Glass - Narrow Glass	

### Footnotes:

- <sup>1</sup> We (Digital Lumens) cannot and do not test for all potential chemical impacts (individually or combinations of chemicals) on the system over time (i.e. HALT, highly accelerated life testing, of every potential operating condition and combination is impossible). Therefore, it is imperative that customers test our luminaires in their final installation environment.
- <sup>2</sup> Clean with mild soap and water only. Maintain 10 ft (3 m) setback from walls open to exterior.
- <sup>3</sup> 60°C maximum for RLE-P1 at 120VAC operation.
- <sup>4</sup> Calculated in nominal application environment.
- <sup>5</sup> High Voltage luminaires (HV) available in North America only.
- <sup>6</sup> Nominal CCT, as defined by ANSI C78.377-2008.
- <sup>7</sup> Efficacy values vary with optic option. See DLC QPL for variant details.
- <sup>8</sup> Input ratings may vary for international certifications.
- <sup>9</sup> LEDs are driven lower to enhance efficiency and increase lifetime of the LEDs. Drivers are tested at ambient (25°C), 100% continuous duty. Driver design target is always minimum > 50,000 hours at 25°C.
- <sup>10</sup> LM-79, LM-80 tests and reports are performed in accordance to IESNA standards, per TM-21. Lumen maintenance projected in hours (L70 via TM-21) based on continuous operation.

### Digital Lumens

374 Congress Street  
Suite 600  
Boston, MA 02210 USA  
Phone +1 617 723 1200  
www.digitallumens.com

