

A photograph of three people—two women and one man—collaborating at a laptop in a dimly lit room at night. The background is filled with out-of-focus city lights, creating a bokeh effect. The woman standing is pointing at the laptop screen, while the other two look on attentively.

# L•PRIZE<sup>®</sup>

U.S. Department of Energy

Prototype Phase Informational Webinar  
August 3, 2022

# Housekeeping

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- Attendees will be on mute throughout the presentation
- If you have any questions, please type them into the Q&A panel and we will do our best to address each question
- We may be unable to answer some technical or teaming questions. Answers to all questions received will be posted in the HeroX Forum following the webinar: [www.herox.com/LPrize/forum](http://www.herox.com/LPrize/forum)

# Speakers



**Emily Evans**  
National Renewable  
Energy Laboratory



**Wyatt Merrill**  
U.S. Department  
of Energy



**Gabe Arnold**  
Pacific Northwest  
National Laboratory



**Kate Hickcox**  
Pacific Northwest  
National Laboratory

# L-Prize

## Introduction and Overview



## PHASE 1: CONCEPT

UP TO 10 WINNERS  
(\$20,000 EACH)

## PHASE 2: PROTOTYPE

UP TO 6 WINNERS (\$2,000,000 PRIZE POOL)

## TEAMING OPPORTUNITIES

FORM PARTNERSHIPS FOR PHASE 3

## PHASE 3: MANUFACTURING & INSTALLATION

UP TO 4 WINNERS (\$10,000,000 PRIZE POOL)

9 MONTHS

COMPLETED

13 MONTHS

OPEN NOW

22 MONTHS

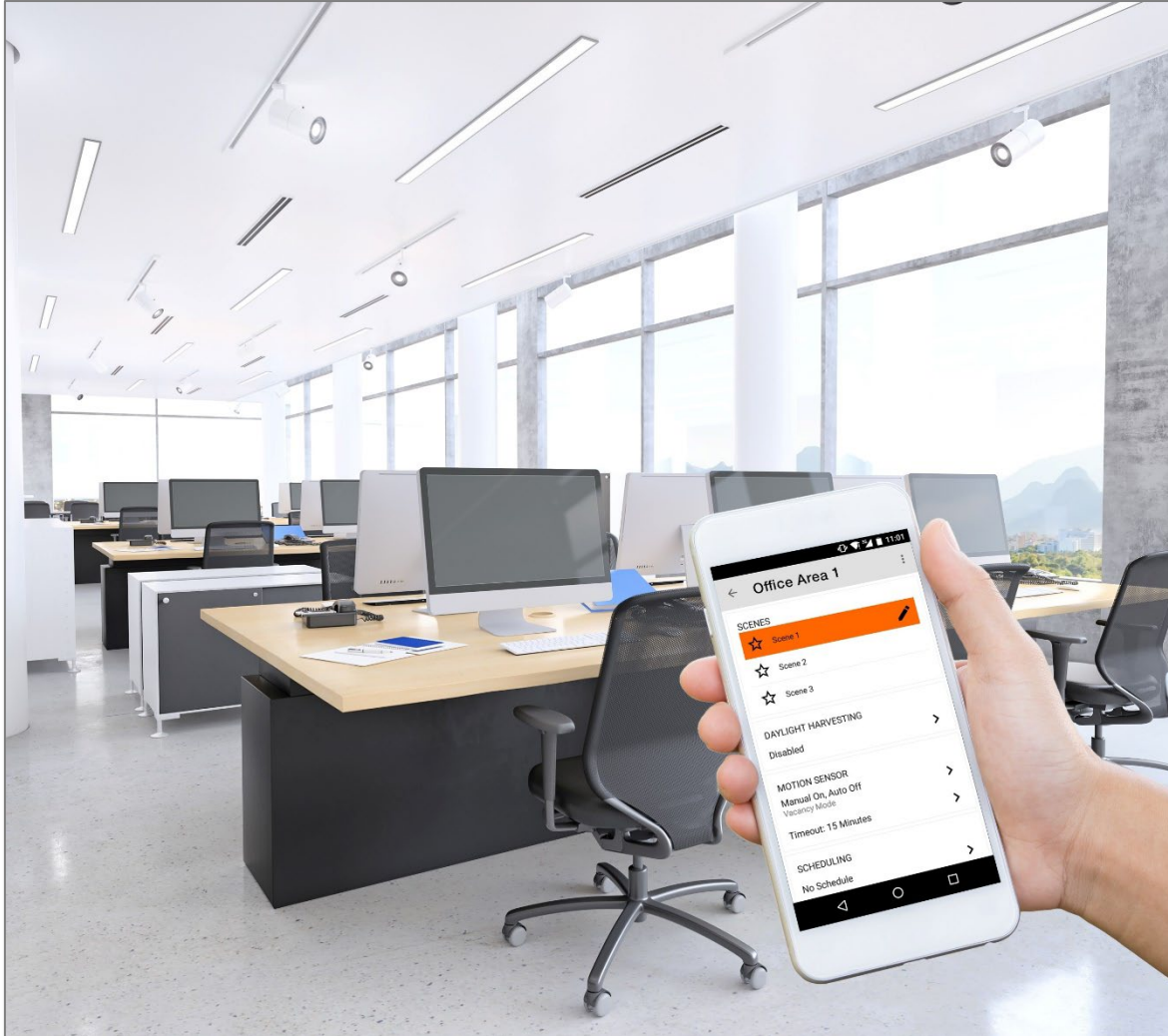
**L•PRIZE®**

U.S. Department of Energy

✉ [LPrize@nrel.gov](mailto:LPrize@nrel.gov)

[americanmadechallenges.org/lprize](http://americanmadechallenges.org/lprize)

# L-Prize Opportunity



**The L-Prize targets linear lighting in commercial buildings where large energy savings potential remains and where lighting system connectivity and data can drive new value and building system optimization.**

# L-Prize Innovation Goals and Focus

## Concept Phase

### Participants:

Small players, nontraditional, students, individuals, etc. who receive feedback on their proposals from panel of experts

### Criteria:

Quality of submission, innovation, and expected technical performance

### Prizes:

\$20k per winner, 4 winners awarded

Innovative concept proposals on paper that document lighting systems of the future

## Prototype Phase

### Participants:

Researchers, start-ups, small and large manufacturers

### Criteria:

Technical performance, sustainability, approaches to address adoption hurdles, DEI

### Prizes:

\$2M prize pool, up to 6 winners

Real physical prototype systems, emphasizing technological innovation and challenging entrants to think outside standard forms, materials, and price points of commercially available products

## M&I Phase

### Participants:

Teams, small and large manufacturers

### Criteria:

Technical performance, sustainability, approaches to address adoption hurdles, DEI, U.S. content and manufacturing, innovative deployment models

### Prizes:

\$10M prize pool, up to 4 winners

Demonstrate real-world viability with commercially available products and installations



Efficacy



Quality of Light



Connectivity



Product Life Cycle



Technical Innovation



Diversity, Equity, and Inclusion

- Competitors may participate in any phase of their choosing. New competitors are welcomed for each phase. There is no requirement for competitors to participate in all phases.

# Future Manufacturing and Installation Phase

- Retains innovation requirements from Prototype Phase
- Adds additional requirements and/or incentives for:
  - U.S. content and assembly
  - U.S. installations
  - Innovative deployment business models



Production



U.S. Content



U.S.  
Installations



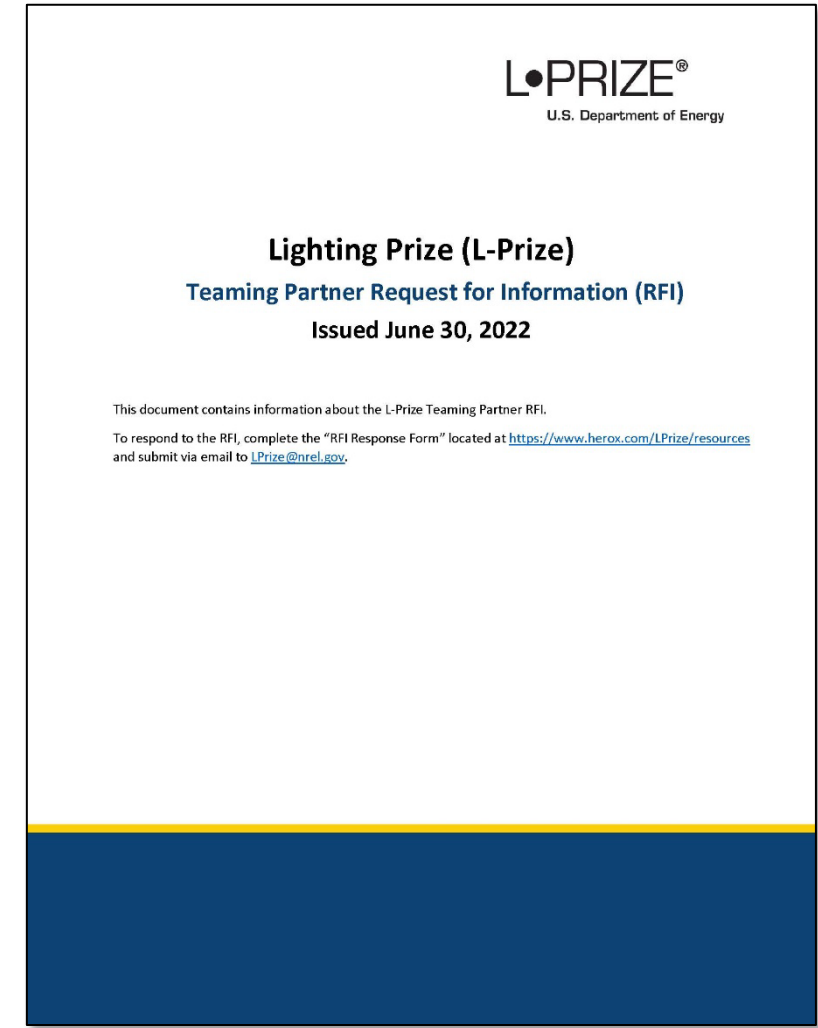
# Comments on Phase 3 Rules – Due January 13, 2023

- DOE invites comments on the draft requirements and timeline for Manufacturing and Installation Phase
- Any revisions to requirements or timeline of Manufacturing and Installation Phase will be announced with the opening of that phase
- Download the Comment Form at [www.herox.com/LPrize/resources](http://www.herox.com/LPrize/resources)

L-Prize®		Manufacturing and Installation Phase Comment Form	
Rules Document Location:		<a href="https://americanmadechallenges.org/lprize/docs/L-Prize_Official_Rules.pdf">https://americanmadechallenges.org/lprize/docs/L-Prize_Official_Rules.pdf</a>	
Version:		Version 2, released June 30, 2022	
Comments Due:		January 13, 2023	
Instructions and Background:		<p>DOE invites comments on the DRAFT L-Prize Manufacturing and Installation (M&amp;I) Phase requirements and timelines. DOE will be based on the input received. Any changes to requirements or timeline of the M&amp;I phase will be announced with the opening of that phase.</p> <p><b>Please follow these steps to ensure your comments are received and considered by the L-Prize Team:</b></p> <ol style="list-style-type: none"><li>1. Enter your Organization, Name, Email Address, and Phone Number in Row 8 of this worksheet.</li><li>2. After your review of the Rules Document, please consider each Key Question in Columns B and C and submit your answer in Column D.</li><li>3. Detailed comments are encouraged and should be added beginning in Row 18 of the worksheet. Please enter the section and page number of the Rules Document you are commenting on.</li><li>4. Enter your comment in Column D "Comment and Rationale". If applicable, please provide alternate approaches and data to support your comment.</li><li>5. Save this Excel file with your comments and include your organization name appended to the end of the filename (for example: "OrganizationName-Comments-Phase3.xlsx").</li><li>6. Email the file to <a href="mailto:Lprize@NREL.gov">Lprize@NREL.gov</a> by close of business, <b>January 13, 2023</b>.</li></ol>	
Reviewer Organization		Reviewer Name	Reviewer Email Address
#	Key Questions		Answers to Key Questions
1	Are the timelines feasible for the Manufacturing and Installation Phase?		
2	Are there any hurdles that are preventing you from participating? Is there something DOE should consider, change, or include that would encourage you to participate?		

# Teaming Opportunity

- Teaming partners may be needed for the final Manufacturing and Installation Phase
- DOE seeks manufacturing partners, materials or component suppliers, end-user installation host sites, utilities, energy service companies, and others interested in collaborating with or supporting an L-Prize team
- Teaming list will be posted and regularly updated
- View the Teaming RFI and Teaming partner list under Resources at <https://www.herox.com/LPrize>



# L-Prize

## Prototype Phase Overview

# Prototype Phase – What's New?

1

Separate tracks for  
luminaires and  
connected systems

2

More possible winners:  
up to 6

3

Expanded innovation  
opportunities for  
technical innovation  
and DEI



# Luminaire Track

Efficacy
<ul style="list-style-type: none"> <li>✓+☐ Luminaire efficacy</li> </ul>

Quality of Light
<ul style="list-style-type: none"> <li>✓ Chromaticity</li> <li>✓ Dimming range</li> <li>✓ Glare control</li> <li>✓ Light output</li> <li>✓ Spectral power data</li> <li>✓+☐ Color rendition</li> <li>✓+☐ Flicker</li> <li>☐ White-tunable</li> </ul>

Connectivity
<ul style="list-style-type: none"> <li>✓ Standards-based digital driver</li> <li>✓ Standards-based sensor port and connector</li> </ul>

Product Life Cycle
<ul style="list-style-type: none"> <li>✓ Driver lifetime</li> <li>✓ Chromaticity maintenance</li> <li>✓+☐ Lumen maintenance</li> <li>✓+☐ Circular design</li> <li>☐ Materials and sustainability innovation</li> </ul>

Technical Innovation
<ul style="list-style-type: none"> <li>☐ Application efficiency</li> <li>☐ Form factor and aesthetics</li> <li>☐ Value proposition and cost</li> </ul>

Diversity, Equity, and Inclusion
<ul style="list-style-type: none"> <li>☐ DEI plans and protocols</li> <li>☐ DEI gaps and opportunities</li> <li>☐ DEI deployment and application</li> </ul>

# Connected Systems Track

Connectivity
<ul style="list-style-type: none"> <li>✓ Standards-based luminaire or system controller</li> <li>✓ Interoperability</li> <li>✓ Addressability</li> <li>✓ Energy reporting</li> <li>✓ Lighting control strategies</li> <li>✓ Standards-based luminaire-level lighting control</li> <li>✓+☐ System resilience</li> <li>✓+☐ Fault detection and diagnostics</li> <li>✓+☐ Grid services capable</li> </ul>

Product Life Cycle
<ul style="list-style-type: none"> <li>☐ Life cycle and sustainability innovation</li> </ul>

Technical Innovation
<ul style="list-style-type: none"> <li>☐ Ease of installation and use</li> <li>☐ Compatibility and interoperability</li> <li>☐ Value proposition and cost</li> </ul>

Diversity, Equity, and Inclusion
<ul style="list-style-type: none"> <li>☐ DEI plans and protocols</li> <li>☐ DEI gaps and opportunities</li> <li>☐ DEI deployment and application</li> </ul>

**Key**  
 ✓ = Mandatory  
 ✓+☐ = Mandatory + Points Available  
 ☐ = Points Only

# Prototype Phase Structure – How do you win?

- **Separate tracks for luminaires and connected systems; competitors may submit entries to one or both tracks**
- **Submissions will be reviewed by Expert Reviewer Panel (ERP)**
  - ERP = Independent experts with expertise in lighting science, LEDs, engineering, energy efficiency, connected lighting, sustainability, DEI considerations, and lighting manufacturing
- **ERP will recommend submissions that meet minimum requirements and earn most points to DOE as winners**
  - Some available points are prescriptive (meet a specific threshold of performance and earn a predefined number of points)
  - Some available points are subjective (e.g., ERP will assign points on a scale of 0 to 5 for a particular area of innovation)

# Luminaire Track – Minimum Requirements and Possible Points Summary

Category	Topic	Minimum Requirement(s)	Possible Points per Topic	Max pts
Efficacy	Luminaire Efficacy	≥150 lm/W	Up to 20 pts. for higher efficacy performance above 150 lm/W	20 pts.
Quality of Light	Light Output	> 2,000 lm	n/a	10 pts.
	Color Rendition	Preference rating of P2, fidelity rating of F3	5 pts. for improved preference rating of P1	
	Chromaticity	4000K, Duv between -0.006 and 0.000	n/a	
	Glare Control	UGR ≤ 22	n/a	
	Temporal Light Modulation (Flicker)	Fundamental frequency > 90 Hz, SVM ≤ 0.9	5 pts. for improved flicker performance SVM ≤ 0.4	
	Dimming Range	Dims to 5% or lower	n/a	
	Spectral Power Data (SPD)	SPD in ≤5-nm increments	n/a	
	White-Tunable	Must be configured for 4000K operation	n/a	
Connectivity	Standards-Based Digital Driver	Uses D4i-compliant smart driver	n/a	n/a
	Standards-Based Sensor Port and Connector	Contains Zhaga Book 20-compliant sensor port and connector	n/a	
Product Life Cycle	Circular Design	TM66 CEAM-Make ≥ 1	4 pts. for TM66 CEAM-Make ≥ 2; additional 4 pts. for TM66 CEAM-Make ≥ 3	20 pts.
	Lumen Maintenance	L <sub>70</sub> ≥ 50,000 hrs	2 pts. for L <sub>90</sub> ≥ 36,000 hrs	
	Chromaticity Maintenance	≤ 0.002 after 6,000 hrs	n/a	
	Driver Lifetime	≥ 50,000 hrs	n/a	
	Materials and Sustainability Innovation	No minimum requirement	Up to 10 pts. for submission features as scored by the Expert Reviewer Panel	
Technical Innovation	Technical Innovation	No minimum requirement	Up to 15 pts. for submission features as scored by the Expert Reviewer Panel	15 pts.
Diversity, Equity, and Inclusion	Diversity, Equity, and Inclusion	No minimum requirement	Up to 15 pts. for submission documentation as scored by the Expert Reviewer Panel	15 pts.

# Luminaire Track - Efficacy

Up to 20 points possible

Efficacy
✓+☐ Luminaire efficacy

- Luminaire efficacy must be  $\geq 150$  lm/W
  - Additional Points:
    - $\geq 160$  lumens per watt = 4 additional points
    - $\geq 170$  lumens per watt = 8 additional points
    - $\geq 180$  lumens per watt = 12 additional points
    - $\geq 190$  lumens per watt = 16 additional points
    - $\geq 200$  lumens per watt = 20 additional points

## Key

✓ = Mandatory

✓+☐ = Mandatory + Optional Points

☐ = Optional Points Only

Please see Appendices A+B of Official Rules for all Prototype Phase requirement details: [www.herox.com/LPrize/resources](http://www.herox.com/LPrize/resources)



# Luminaire Track – Quality of Light

Up to 10 points possible

Quality of Light	
✓	Chromaticity
✓	Dimming range
✓	Glare control
✓	Light output
✓	Spectral power data
✓+☐	Color rendition
✓+☐	Flicker
☐	White-tunable

- Chromaticity = 4,000K,  $D_{uv}$  between -0.006 and 0.000
- Dims to 5% or lower
- Light output > 2,000 lm
- Spectral power data SPD available in  $\leq 5$ -nm increments
- UGR  $\leq 22$  in standard applications defined by CIE 190:2010
- Color rendition preference rating of P2, fidelity rating of F3 using IES TM-30 metrics
  - Additional points: 5 pts. available for improved preference rating of P1
- Temporal Light Modulation (aka flicker) SVM  $\leq 0.9$  required
  - Additional points: 5 pts. available for improved SVM  $\leq 0.4$
- White-tunable is optional = if white-tunable, L-Prize will evaluate metrics at 4,000k operation for Prototype Phase

## Key

✓ = Mandatory

✓+☐ = Mandatory + Optional Points

☐ = Optional Points Only

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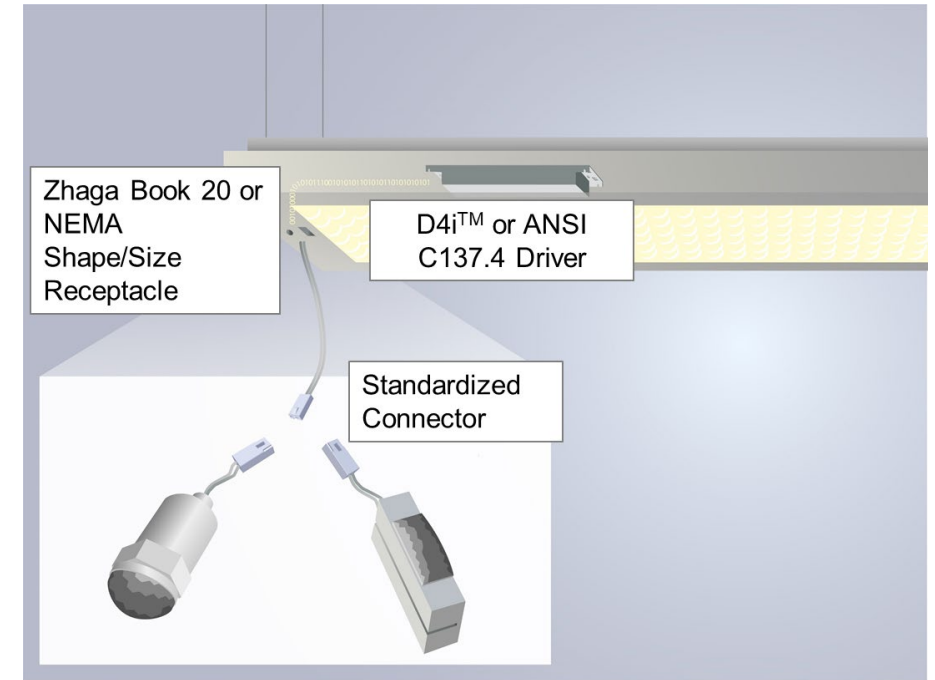
# Luminaire Track – Connectivity

0 points possible; all minimum requirements

## Connectivity

- ✓ Standards-based digital driver
- ✓ Standards-based sensor port and connector

- D4i or ANSI C137.4-2021 compliant driver
- Zhaga Book 20 or NEMA LS 20000-2021 compliant sensor port
  - NEMA sensor shapes RR1, RR2, CC1, CC3, or EM1 only
- 2-wire connector from sensor port to D4i or ANSI C137.4 compliant driver



## Key

- ✓ = Mandatory
- ✓+☐ = Mandatory + Optional Points
- ☐ = Optional Points Only

Please see Appendices A+B of Official Rules for all Prototype Phase requirement details: [www.herox.com/LPrize/resources](http://www.herox.com/LPrize/resources)

# Luminaire Track – Product Life Cycle

Up to 20 points possible

Product Life Cycle
✓ Driver lifetime
✓ Chromaticity maintenance
✓+☐ Lumen maintenance
✓+☐ Circular design
☐ Materials and sustainability innovation

- Driver lifetime  $\geq 50,000$  hrs
- Chromaticity maintenance  $\leq 0.002$  after 6,000 hrs
- $L_{70} \geq 50,000$  hrs
  - Additional points: 2 points available for  $L_{90} \geq 36,000$  hrs
- Circular design: must score  $\geq 1$  using CIBSE TM66 Circular Assessment Tool
  - Additional points: 4 points available for score  $\geq 2$ ; 8 points available for score  $\geq 3$
- Materials and sustainability innovation:
  - Open invitation for innovations that support improved material transparency or material health
  - Additional points: up to 10 points as scored by Expert Reviewer Panel

- Material health:
- the sustainability quality or “health” of materials themselves
  - how these materials may affect humans and ecosystems

- Material transparency:
- the disclosure of the ingredients and processes used to create materials or products
  - their potential human health effects, environmental impacts, or social equity

**Key**  
✓ = Mandatory  
✓+☐ = Mandatory + Optional Points  
☐ = Optional Points Only

Please see Appendices A+B of Official Rules for all Prototype Phase requirement details: [www.herox.com/LPrize/resources](http://www.herox.com/LPrize/resources)

# Luminaire Track – Technical Innovation

Up to 15 points possible

Technical Innovation
<input type="checkbox"/> Application efficiency
<input type="checkbox"/> Form factor and aesthetics
<input type="checkbox"/> Value proposition and cost

- **Application efficiency:**
  - Open invitation for innovations that improve in-application efficiency such as improved optics/distribution
  - Additional points: up to 5 points as scored by Expert Reviewer Panel
- **Form factor and aesthetics:**
  - Open invitation for innovations in form factor or aesthetics that improve acceptability or adoptability of solution
  - Additional points: up to 5 points as scored by Expert Reviewer Panel
- **Value proposition and cost:**
  - Open invitation for innovations that reduce cost, improve cost-effectiveness, or improve value proposition
  - Additional points: up to 5 points as scored by Expert Reviewer Panel

## Key

✓ = Mandatory

✓+☐ = Mandatory + Optional Points

☐ = Optional Points Only

Please see Appendices A+B of Official Rules for all Prototype Phase requirement details: [www.herox.com/LPrize/resources](http://www.herox.com/LPrize/resources)



# Luminaire Track – Diversity, Equity, and Inclusion

Up to 15 points possible

Diversity, Equity, and Inclusion
<input type="checkbox"/> DEI plans and protocols
<input type="checkbox"/> DEI gaps and opportunities
<input type="checkbox"/> DEI deployment and application

- **DEI Plans and Protocols:**
  - Open invitation for competitors to demonstrate organizational-level DEI goals and strategies
  - Additional points: up to 5 points as scored by Expert Reviewer Panel
- **Gaps and Opportunities:**
  - Open invitation for competitors to demonstrate how growth and iterations in DEI approaches will be achieved, and how DEI gaps and opportunities are uncovered in the organization
  - Additional points: up to 5 points as scored by Expert Reviewer Panel
- **Deployment and Application:**
  - Open invitation for competitors to demonstrate DEI in adoption, application or distribution of products
  - Additional points: up to 5 points as scored by Expert Reviewer Panel

## Key

✓ = Mandatory

✓+☐ = Mandatory + Optional Points

☐ = Optional Points Only

Please see Appendices A+B of Official Rules for all Prototype Phase requirement details: [www.herox.com/LPrize/resources](http://www.herox.com/LPrize/resources)

# Connected Systems Track – Minimum Requirements and Possible Points Summary

Category	Topic	Minimum Requirement(s)	Possible Points per Topic	Max Pts
Connectivity	Standards-Based Luminaire or System Controller	Interoperable with D4i or ANSI C137.4 compliant drivers and/or sensors	n/a	40 pts.
	Technical Interoperability	Complies with industry standard specification for basic network connectivity	n/a	
	Application Interoperability	Access to zone, occupancy, faults, energy data	n/a	
	Addressability	All luminaires and devices are addressable	n/a	
	Cybersecurity	Not required for Prototype Phase	n/a	
	Energy Reporting	Energy reporting capability required	n/a	
	Lighting Control Strategies	Task, schedule, occupancy, daylight control required	n/a	
	System Resilience	Maintains control after temporary loss of connection to network or power	8 pts. for maintaining control after loss of connection to gateway	
	Fault Detection and Diagnostics (FDD)	Reports basic system faults	Up to 16 pts. for advanced, predictive FDD capabilities	
	Standards-Based Luminaire Level Lighting Control (LLLC)	D4i or ANSI C137.4 compliant sensing/communication module per luminaire	n/a	
	Grid Services Capable	OpenADR 2.0a demand response required	Up to 16 pts. for advanced grid services capabilities using OpenADR 2.0b	
Product Life Cycle	Life Cycle and Sustainability Innovation	No minimum requirement	Up to 10 pts. for submission features as scored by the Expert Reviewer Panel	10 pts.
Technical Innovation	Technical Innovation	No minimum requirement	Up to 15 pts. for submission features as scored by the Expert Reviewer Panel	15 pts.
Diversity, Equity, and Inclusion	Diversity, Equity, and Inclusion	No minimum requirement	Up to 15 pts. for submission documentation as scored by the Expert Reviewer Panel	15 pts.

# Connected Systems Track – Connectivity

Up to 40 points possible

Connectivity
✓ Standards-based luminaire or system controller
✓ Standards-based luminaire-level lighting control
✓ Interoperability
✓ Addressability
✓ Energy reporting
✓ Lighting control strategies
✓+ <input type="checkbox"/> System resilience
✓+ <input type="checkbox"/> Fault detection and diagnostics
✓+ <input type="checkbox"/> Grid services capable

- Interoperable with D4i or ANSI C137.4 compliant drivers and/or sensors
- D4i or ANSI C137.4 compliant LLC sensor to be installed in luminaires
- API with access to zone, occupancy, faults, energy data
- All luminaires and devices are addressable
- Energy measurement and reporting capability required
- Task tuning, occupancy sensing, scheduling, daylight harvest control required
- Maintains control after temporary loss of connection to network or power
  - Additional Points: 8 pts. available if maintains control after loss of connection to gateway
- Must report basic system faults
  - Additional Points: up to 16 pts. available for diagnosing or predicting faults
- Must be OpenADR 2.0a compliant for DR
  - Additional Points: up to 16 pts. for advanced demand response using OpenADR 2.0b

Key
✓ = Mandatory
✓+ <input type="checkbox"/> = Mandatory + Optional Points
<input type="checkbox"/> = Optional Points Only

Please see Appendices A+B of Official Rules for all Prototype Phase requirement details: [www.herox.com/LPrize/resources](http://www.herox.com/LPrize/resources)

# Connected Systems Track – Product Life Cycle

Up to 10 points possible

Product Life Cycle
<input type="checkbox"/> Life cycle and sustainability innovation

- **Life cycle and sustainability innovation:**
  - Open invitation for innovations that support positive environmental impacts such as improve circularity, end-of-life outcomes, reduction in harmful materials, or improved material transparency
  - Additional points: up to 10 points as scored by Expert Reviewer Panel

Material transparency:

- the disclosure of the ingredients and processes used to create materials or products
- their potential human health effects, environmental impacts, or social equity

## Key

✓ = Mandatory

✓+☐ = Mandatory + Optional Points

☐ = Optional Points Only

Please see Appendices A+B of Official Rules for all Prototype Phase requirement details: [www.herox.com/LPrize/resources](http://www.herox.com/LPrize/resources)



# Connected Systems Track – Technical Innovation

Up to 15 points possible

Technical Innovation
<input type="checkbox"/> Ease of installation and use
<input type="checkbox"/> Compatibility and interoperability
<input type="checkbox"/> Value proposition and cost

- **Ease of installation and use:**
  - Open invitation for innovations that that simplify or improve ease of installing, configuring, operating, or maintaining connected lighting system
  - Additional points: up to 5 points as scored by Expert Reviewer Panel
- **Compatibility and interoperability:**
  - Open invitation for innovations that that improve compatibility and interoperability with other lighting and/or non-lighting devices and systems
  - Additional points: up to 5 points as scored by Expert Reviewer Panel
- **Value proposition and cost:**
  - Open invitation for innovations that reduce the cost, improve cost-effectiveness, and/or improve the value proposition of connected lighting systems
  - Additional points: up to 5 points as scored by Expert Reviewer Panel

## Key

✓ = Mandatory

✓+☐ = Mandatory + Optional Points

☐ = Optional Points Only

Please see Appendices A+B of Official Rules for all Prototype Phase requirement details: [www.herox.com/LPrize/resources](http://www.herox.com/LPrize/resources)

# Connected Systems Track – Diversity, Equity, and Inclusion

Up to 15 points possible

Diversity, Equity, and Inclusion
<input type="checkbox"/> DEI plans and protocols
<input type="checkbox"/> DEI gaps and opportunities
<input type="checkbox"/> DEI deployment and application

- **DEI Plans and Protocols:**
  - Open invitation for competitors to demonstrate organizational-level DEI goals and strategies
  - Additional points: up to 5 points as scored by Expert Reviewer Panel
- **Gaps and Opportunities:**
  - Open invitation for competitors to demonstrate how growth and iterations in DEI approaches will be achieved, and how DEI gaps and opportunities are uncovered in the organization
  - Additional points: up to 5 points as scored by Expert Reviewer Panel
- **Deployment and Application:**
  - Open invitation for competitors to demonstrate DEI in adoption, application or distribution of products
  - Additional points: up to 5 points as scored by Expert Reviewer Panel

## Key

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✓+☐ = Mandatory + Optional Points

☐ = Optional Points Only

Please see Appendices A+B of Official Rules for all Prototype Phase requirement details: [www.herox.com/LPrize/resources](http://www.herox.com/LPrize/resources)

# DEI, Product Life Cycle and Sustainability Webinars



Registration link:

[https://us02web.zoom.us/webinar/register/WN\\_u72dnobrTYuo9fj9zHsSbw](https://us02web.zoom.us/webinar/register/WN_u72dnobrTYuo9fj9zHsSbw)



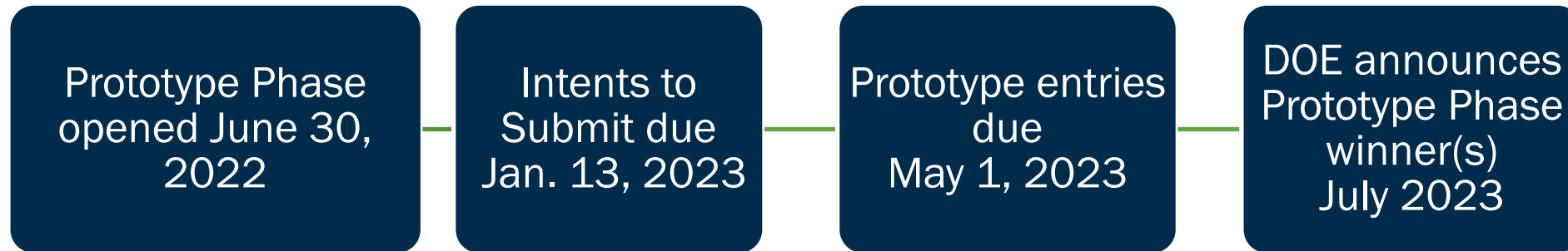
Registration link:

[https://us02web.zoom.us/webinar/register/WN\\_5PZE0d8yRqKh7eNrCavaXw](https://us02web.zoom.us/webinar/register/WN_5PZE0d8yRqKh7eNrCavaXw)

# Prototype Phase Timeline and Submission Package

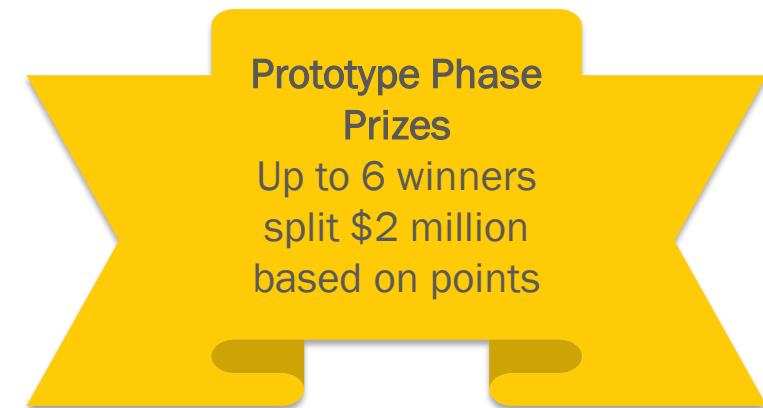
Competitors submit working physical prototype luminaires or connected systems

- WHO: Manufacturers, designers, researchers, universities, individuals, etc.



A complete submission package will include:

- Cover page, which may be released to the public by DOE
- PowerPoint summary slide, which may be released to the public by DOE
- Technical Documentation described in Appendices A+B
- Completed Technical Performance and Scoring Form
- Description of key innovations and features
- Three complete working prototype luminaires or connected systems
- Systems one-line diagram and instructions (Connected Systems Track only)



# L-Prize

## HeroX Overview





# L•PRIZE®

U.S. Department of Energy

## Official Rules of the L-Prize are available online

[https://americanmadechallenges.org/challenges/lprize/docs/L-Prize\\_Official\\_Rules.pdf](https://americanmadechallenges.org/challenges/lprize/docs/L-Prize_Official_Rules.pdf)

L•PRIZE®

U.S. Department of Energy

**Lighting Prize (L-Prize)**  
**PROTOTYPE PHASE OFFICIAL RULES**  
**AND**  
**MANUFACTURING AND**  
**INSTALLATION PHASE DRAFT RULES**

**Issued June 30, 2022**

The L-Prize® will advance the state of the art in light-emitting diode (LED) lighting, encouraging technology developers and researchers to engage in advanced lighting system development leading to groundbreaking designs, products, and impact.



# Follow or Compete at [www.herox.com/LPrize](http://www.herox.com/LPrize)

Edit



## American-Made Challenges

1,602

Share

Following (45)



## Lighting Prize (L-Prize)

The L-Prize will advance the state-of-the-art in LED lighting.

Energy, Environment & Resources

Government

**Stage:**  
Comment Period Opens

**Prize:**  
\$12.2 Million Total Prize Pool

BEGIN ENTRY

MY TEAM

- Overview
- Guidelines
- Timeline
- Forum2
- Teams40
- Resources
- FAQ

### Challenge Overview

The Lighting Prize (L-Prize) is designed to advance the U.S. clean energy economy for next-generation LED lighting.



# L•PRIZE<sup>®</sup>

U.S. Department of Energy

## QUESTIONS?

[www.herox.com/LPrize/forum](http://www.herox.com/LPrize/forum)

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