

Metal Halide Lighting

LT
**Metal Halide Lighting
(HMI)**

- Adjustable lighting system length for larger coverage
- Lightweight boxes for easier installation and maneuverability
- X, Y, Z and tilt movement available for all systems

Seattle Safety overhead floodlighting systems are superior solutions for crash test illumination challenges as our approach to high-speed crash lighting offers numerous design advantages. Components and assemblies used within Seattle Safety's



metal-halide lighting systems are listed below and illustrate the superior design, maneuverability and serviceability of our overhead floodlighting systems.

Lightweight and rigid aluminum box housings with louvers, holes, and other features are produced to tight tolerances and are finished with attractive metallic high-temperature paint or powder coat finish for a clean and professional appearance to all Seattle Safety lighting fixtures. The box length and the number of lamps are customized for each application, with a maximum of 6 lamps, ballasts and igniter units.

The lighting boxes are mounted within supporting structures to form banks; these banks are specifically designed by Seattle Safety to meet specific customer illumination requirements. Vehicle crash test labs will often have multiple side/front/angled light banks covering large areas and will typically have a 5–8m long lighted zone.

The large number of relatively low powered lamps provides even lighting from multiple directions significantly minimizing shadows as compared to competitor systems that use fewer but higher powered 4KW and 8KW boosted lighting fixtures.

Available for:

- 3.1MN ServoSled
- 2.0MN ServoSled
- 1.4MN ServoSled
- Conversion Sled
- ServoSled 1000

The primary features of the HMI Lighting System include:

- **Lightweight** – Lightweight boxes allow for lighting to be set in almost any mounting structure.
- **Adaptable** – Multiple boxes can be linked to illuminate longer test areas. Add motorized X, Y, Z or tilt ability for easy adjustment to light placement with the click of a button.

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Provided by Seattle Safety

- Light frame, boxes with lamps, ballasts & ignitors, and wiring
- Control system
- Installation

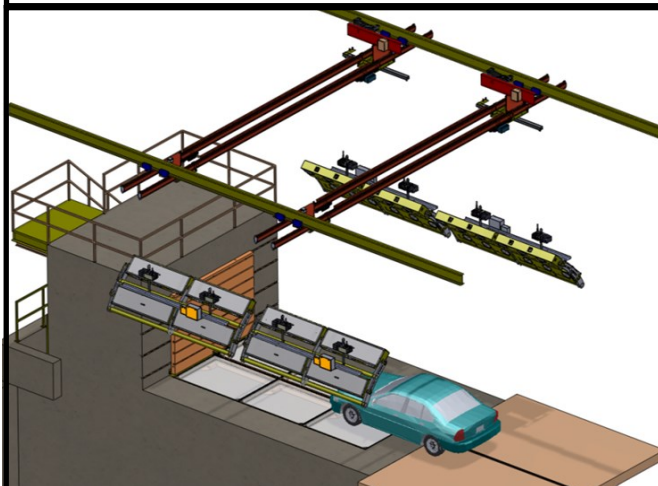
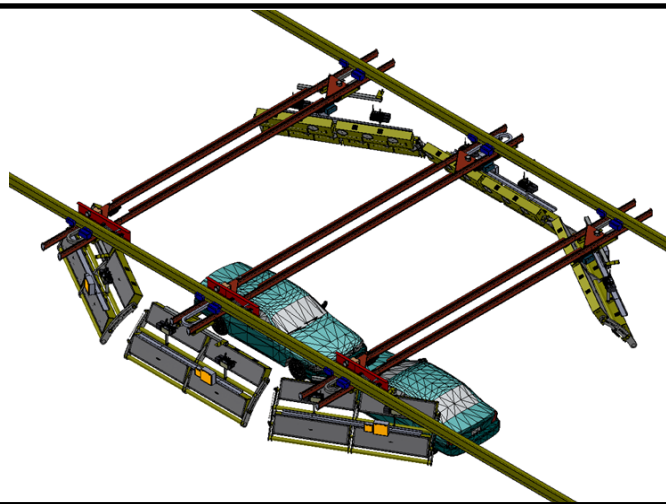
Provided by Customer

- Overhead mounting provisions
- Power distribution box for lighting

System Specifications:

Lamp Information	GE/Osram Lamp Ra (CRI) >90 Daylight (6000K) color temperature >90 lumens per watt
Ballast Information	Square wave flicker free design Power factor: >0.98 Efficiency: 90% Internal EMI filter Constant output as lamp ages (power regulation) 1350W nominal output with 2700W boost for up to 10 seconds

Light arrangements of six banks (4 boxes per bank) with an overhead drive platform, as shown to the right, are recommended for labs set up for octagonal or center pit car-to-car impact. This configuration will provide optimal lighting for car-to-car side, front, and oblique impact tests.



Shown to the left is a lighting configuration using a 4 bank lighting system (4 boxes per bank) with overhead drive platforms. This configuration is recommended for front of barrier locations. Additional options, not pictured, include front and rear lighting banks.



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