

# Mining Applications Engineering

## HM-1325 Chino Mine Workshop

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Image Courtesy of Chino Mine

# **Mining Applications Engineering**

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***The information presented in this application engineering document seeks to deliver the end user with:***

Improved profitability of the mining operation by achieving:

- Greater safety
- Lower Maintenance cost
- Greater productivity
- Predictable service
- Better Value



The applications engineering office outlines areas of great concern and hopes to present a practical solution.

Great emphasis was placed on the lighting levels, increased task lighting and uniform illumination with soft transition from light to dark.

A light loss factor of 0.72 was used for this evaluation.

\* Combination of lamp lumen depreciation x luminaire dirt depreciation x non recoverable light loss factors (such as ballast factors, supply voltage variations, optical factors and fixture surface depreciation).

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### Proposed HELLA Setup

The following products have been used in this Application Engineering Report

<i>Type / Symbol</i>	<i>Luminaire (product)</i>	<i>Part Number</i>	<i>Quantity</i>
A	HypaLUME LED Floodlight - Flood Range	HML2000F	18 Luminaires
B	AC/DC Converter 24V 320VA	HM24320AC	18 Peices





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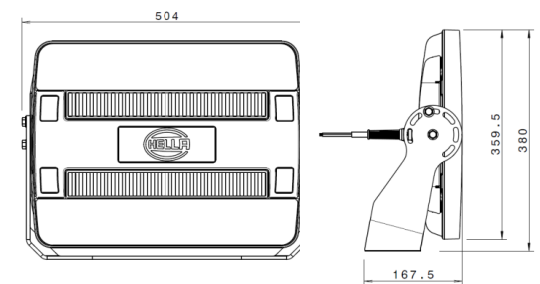
### Product Information

Type	Hella Part Number	Description	Spares
A	HML2000F	HypaLUME LED Floodlight Flood Range Optics	None

### Diagram



Australian Made Product



**HML2000F x 18**



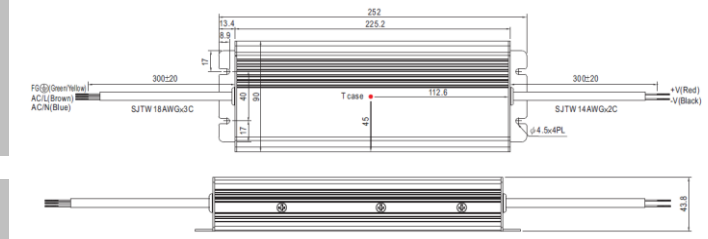
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### Product Information

Type	Hella Part Number	Description	Spares
B	HM24320AC	ACDC Transformer 24 Volt 320 Watt Universal Input	None

### Diagram



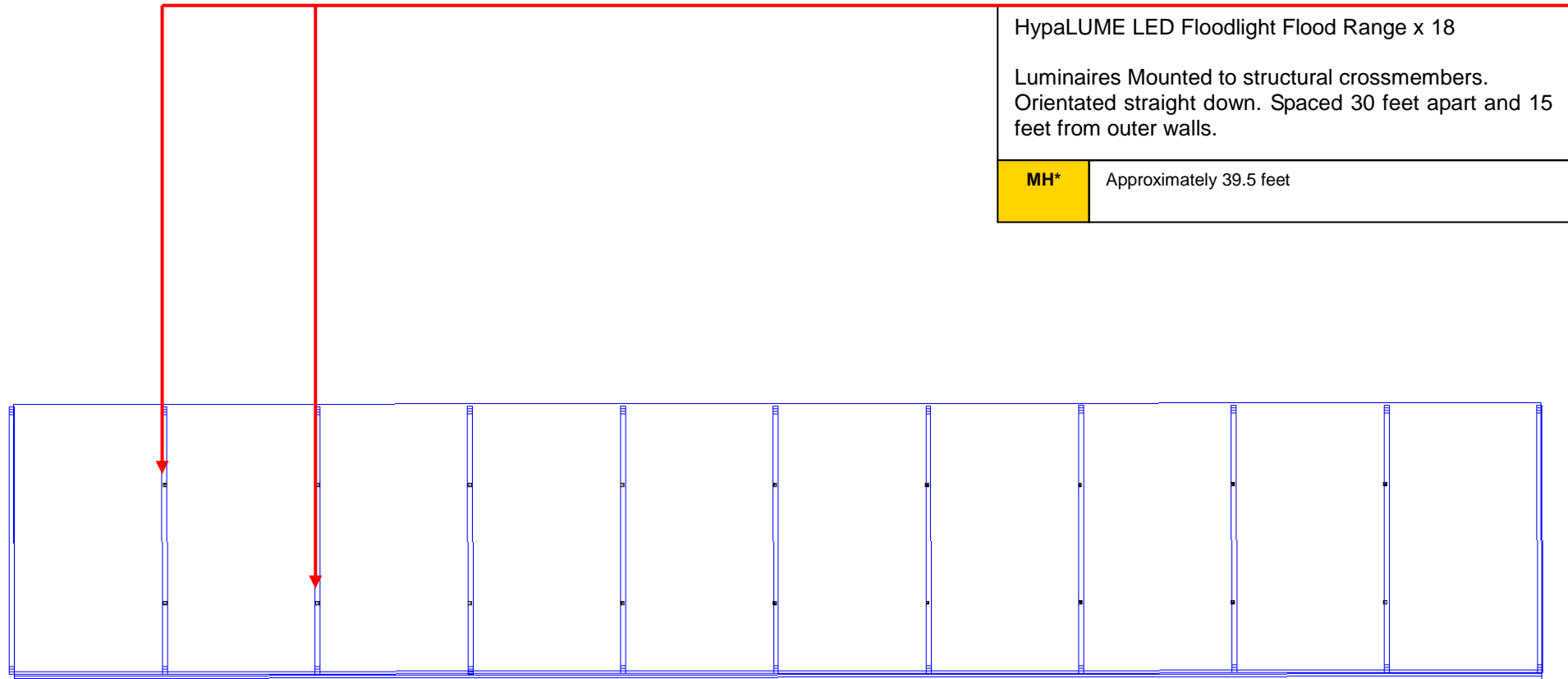
**HM24320AC x 18**



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### Luminaire Location Summary



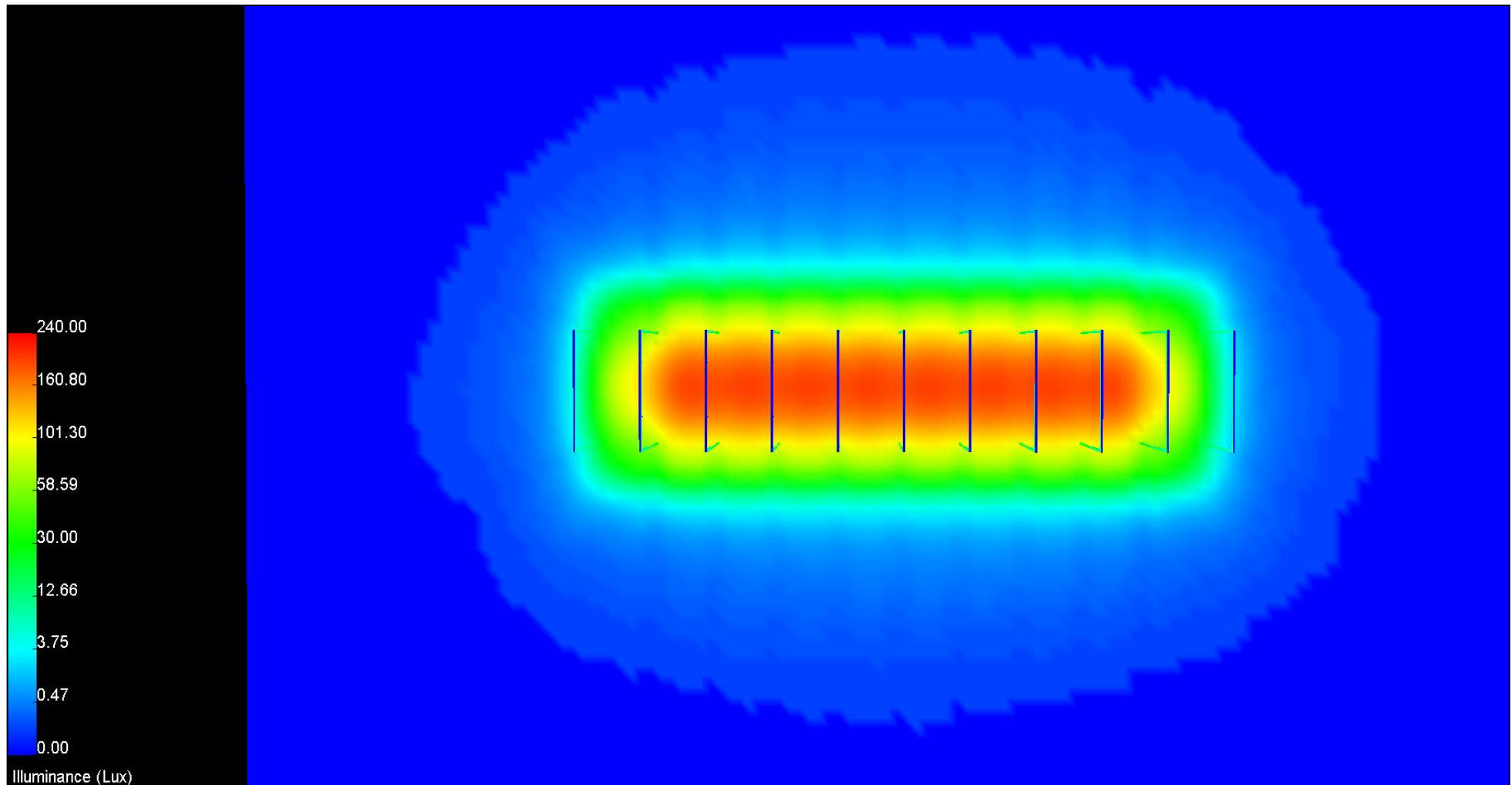
\*MH - Mounting Height



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### Top View – IsoLUX

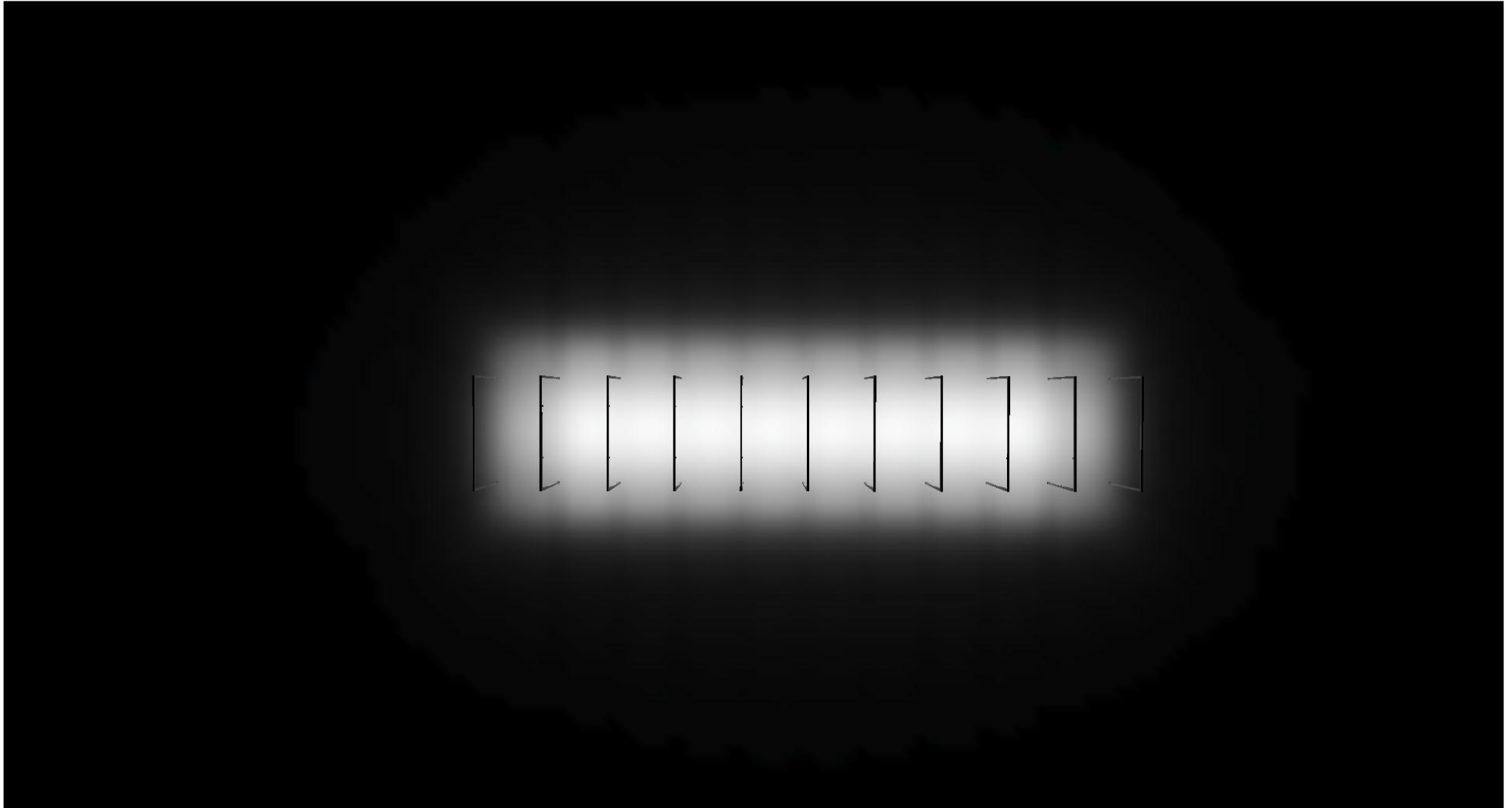


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**Top View – RGB**

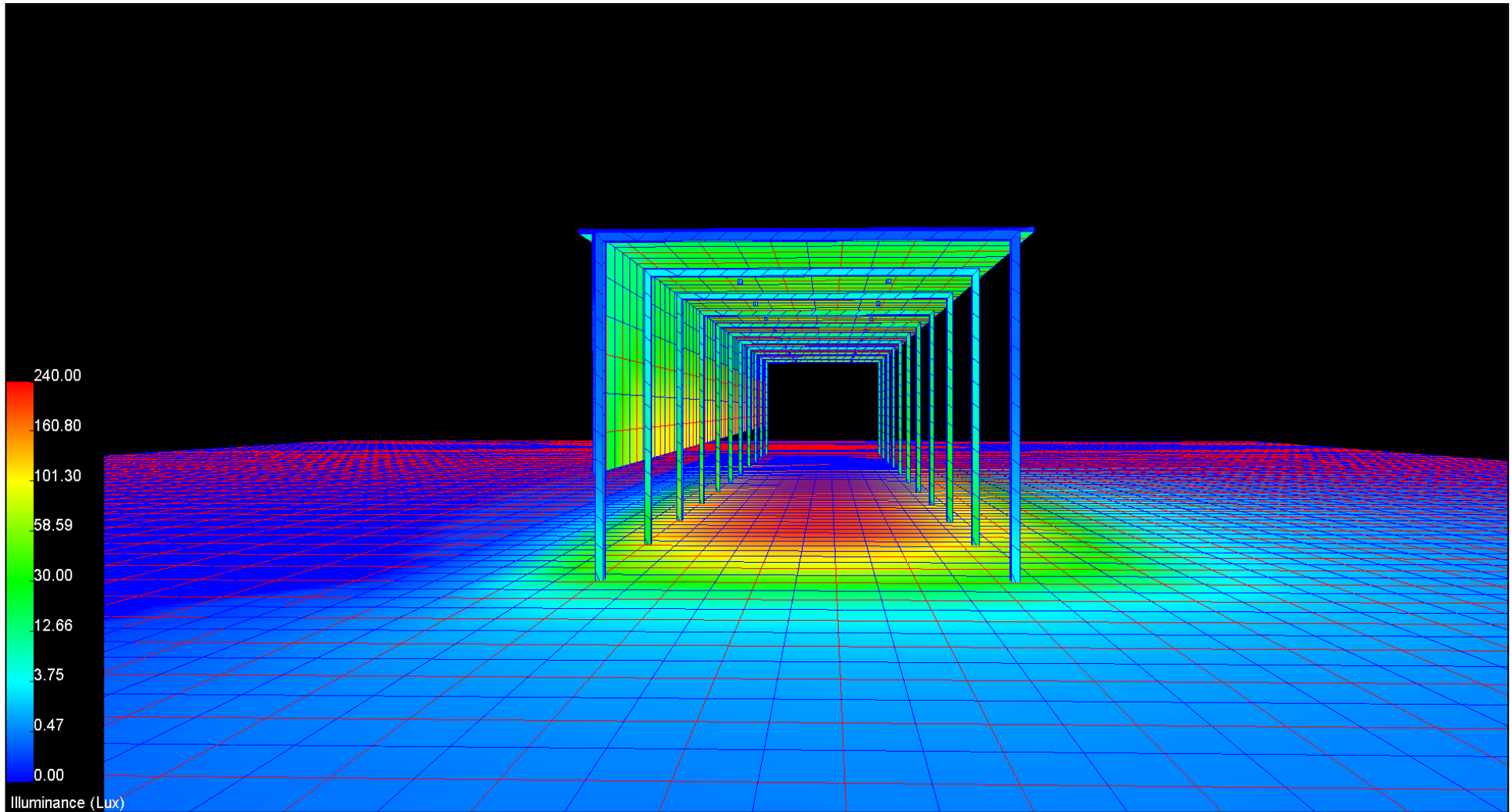




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### Iso View 1 – IsoLUX



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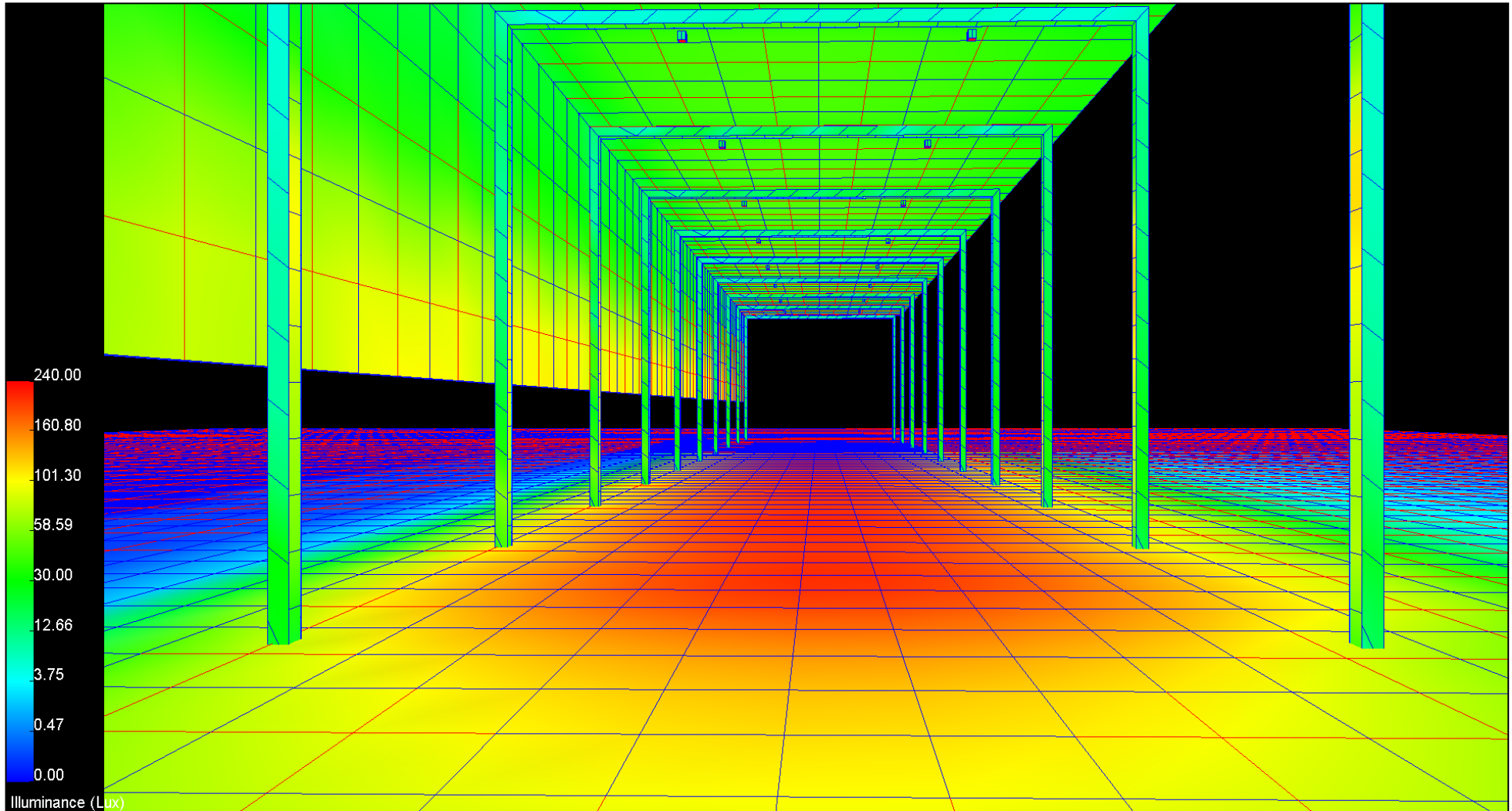
### *Iso View 1 – RGB*



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### Iso View 2 – IsoLUX



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### Iso View 2 – RGB

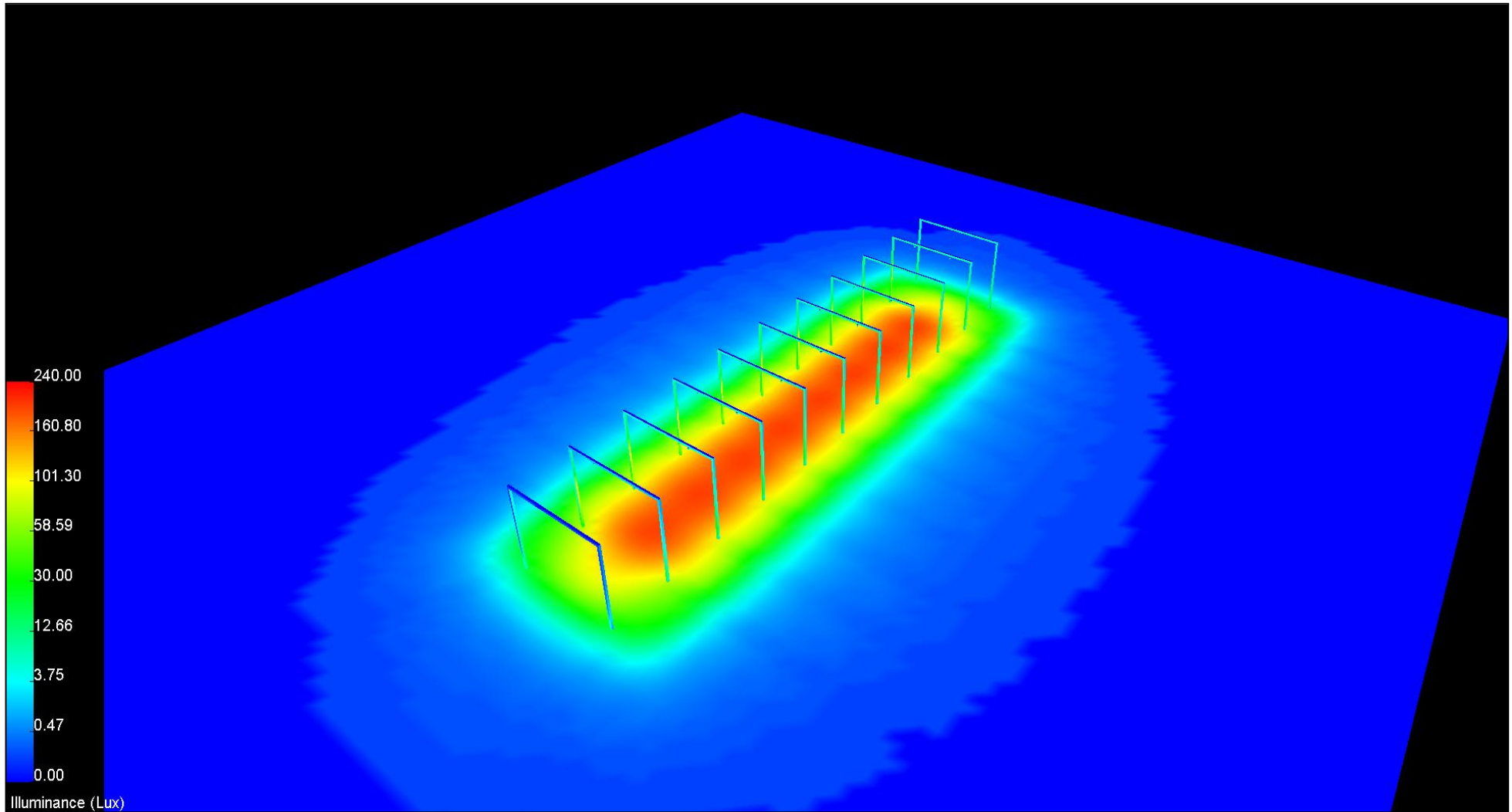


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### Iso View 3 – IsoLUX



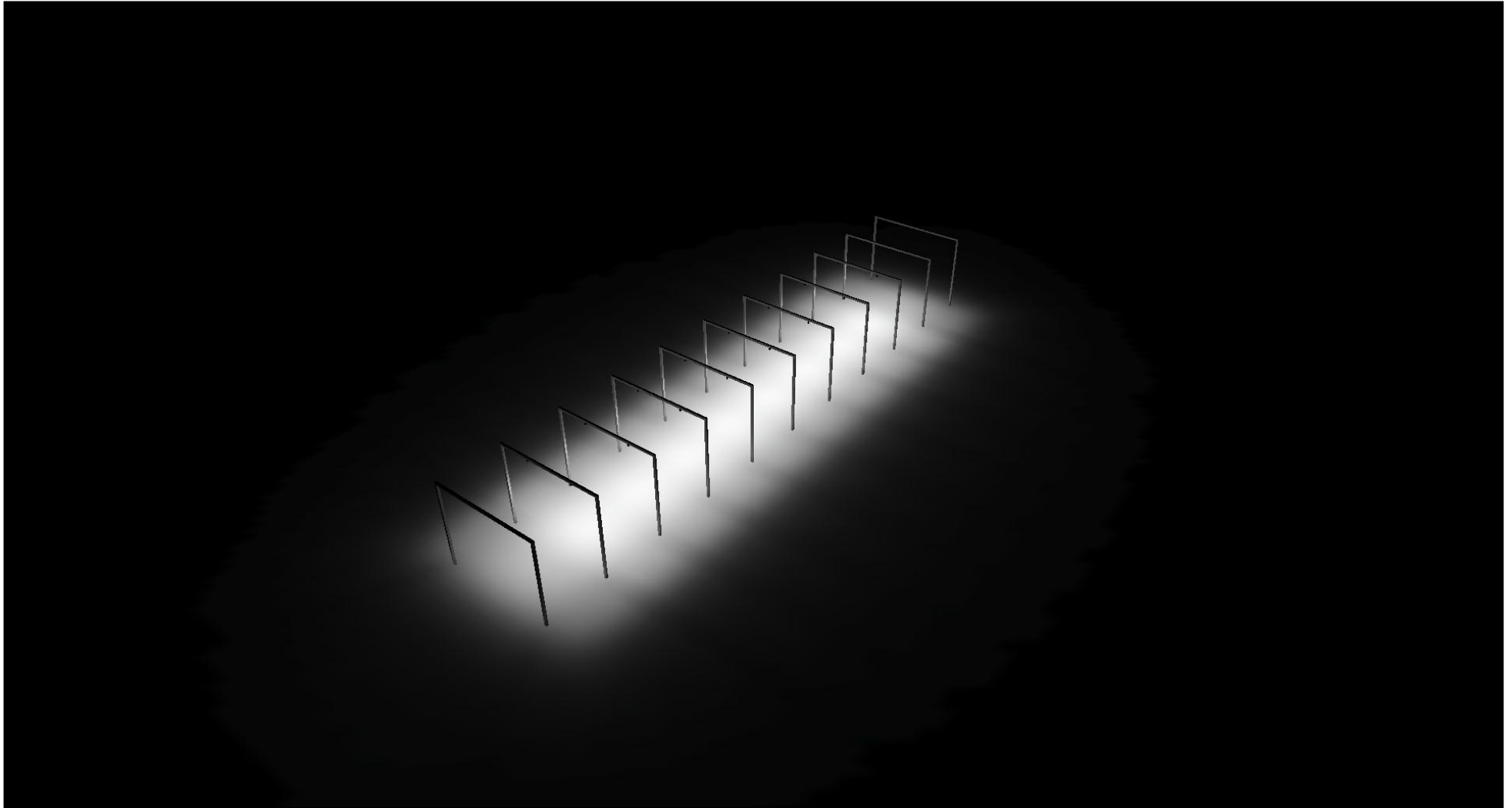


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### *Iso View 3 – RGB*



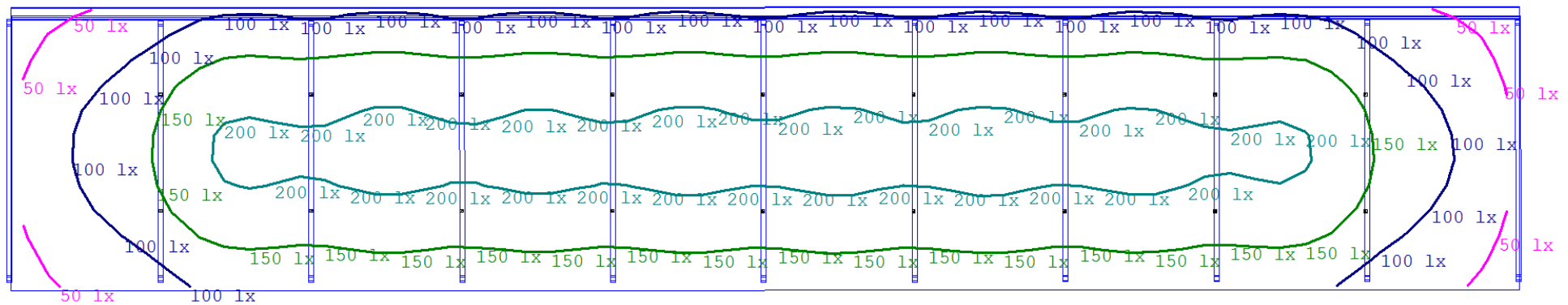
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### Iso Line View 1

Illuminance measurement in Lux

Distance measured in metres



# Mining Applications Engineering

## HM-1325 Chino Mine Workshop

### Iso Line View 2

Illuminance measurement in Lux

Distance measured in metres

