HEAVY-DUTY LIGHTING FOR PORTS & TERMINALS

PHOENIX®

DURABILITY **X** DESIGN™

PHOENIX

130 Years of history

79 Years manufacturing lighting fixtures

29 Years servicing ports & terminals

6 Continents

+ 400.000 LED fixtures installed

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DURABILITY **X** DESIGN™

PHOENIX

1st	Lighting manufacturer to install LED on a port crane
USA	Major part of portfolio done in Milwaukee-WI
PORTS	Division dedicated to the ports industry
AC/DC	All terminal applications covered
OEM	Liebherr, Konecranes, Caterpillar, Komatsu etc

PHOENIX®
DURABILITY X DESIGN™

REALLY HEAVY-DUTY

Phoenix Products Company Inc.
Durable, Heavy-duty Lighting Fixtures

What kind of environments can Phoenix's fixtures stand up to?

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https://youtu.be/SIGcA4mEbQM

BORN IN MINING, PHOENIX HAS THE HEAVY-DUTY CONCEPT IN ITS DNA. IT IS THE ONLY COMPANY THAT MANUFACTURES LIGHTING FIXTURES EXCLUSIVELY FOR SEVERE APPLICATIONS.

THE DEVICES WERE DESIGNED TO RESIST MOISTURE, SALT, VIBRATION, IMPACT AND THUS DRASTICALLY REDUCE THE COST OF MAINTAINING AND OPERATING A PORT.

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WHY PHOENIX?

1

HEAVY-DUTY

BORN IN THE MOST ADVERSE ENVIRONMENT, IT IS THE ONLY MANUFACTURER OF HEADLIGHTS AND REFLECTORS EXCLUSIVELY FOR SEVERE APPLICATIONS

2

PORTS FOCUS

FIRST MANUFACTURER TO INSTALL AN LED IN A PORT AND MAINTAIN ITS LARGEST INTERNAL DIVISION DEDICATED EXCLUSIVELY TO PORTS

3

QUALITY

ISO 9001:2008 CERTIFICATION WITH PROPRIETARY LABORATORIES AND UL AND CE CERTIFIED PRODUCTS MANUFACTURED IN THE USA.

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PORTFOLIO

PORT APPLICATIONS

CRANES, SHIP LOADERS
Y SHIP UNLOADERS

YARD LIGHTING

MOBILE EQUIPMENT
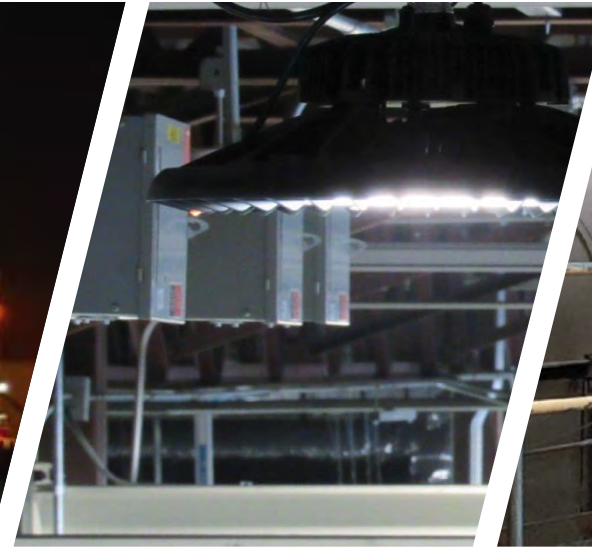
WAREHOUSES

CONVEYOR BELT
SYSTEMS

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ASSEMBLY LAYOUTS

PHOENIX'S PORTFOLIO WAS BUILT ACCORDING TO EACH SPECIFICITY OF A PORT OPERATION; THEREFORE, EACH PART OF THE EQUIPMENT REQUIRES A LUMINAIRE DESIGNED FOR SUCH.

TURNING ON A LADDER WITH THE WRONG DEVICE, FOR EXAMPLE, CAN RESULT IN LOW USE OF INSTALLED POWER AND BRINGING SAFETY RISKS.

Mobile Harbor Crane

Ship to Shore

PHOENIX®
DURABILITY X DESIGN™
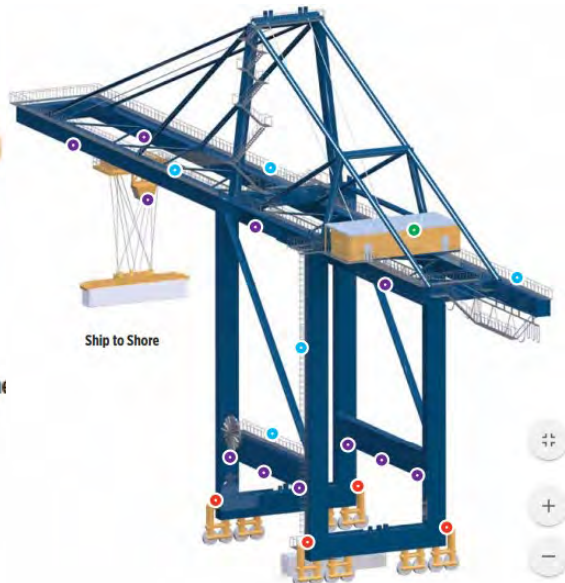
A HISTORY OF INNOVATION

FIRST
VIBRATION
RESISTANT
FIXTURE OF
HISTORY

FIRST LED
FIXTURE ON A
CONTAINER
TERMINAL
CRANE

FIRST
TERMINAL
CRANE
PURPOSE BUILT
FIXTURE

PHOENIX®
DURABILITY X DESIGN™

PORT COMMAND FLOOD

- **RTG COMMAND FLOOD** AND **STS COMMAND FLOOD**

- FIXTURE DESIGNED AND OPTIMIZED FOR RTG AND STS

- MARINE GRADE WITH MAXIMUM RESISTANCE IN SALT SPRAY TEST

- STAINLESS STEEL BRACKET AND EXTRUDED ALUMINUM BODY WITH THICK ANODIZED COVER

- SUPPLIED WITH SAFETY CABLES AND AVAILABLE IN 4 DIFFERENT OPTICS

- THREE WATTAGES AVAILABLE: 120W, 240W AND 360W WITH 15,300, 32,000 AND 48,000 LUMENS.

- PIVOTING BRACKETS FOR PROPER DIRECTION.

- 5-YEAR WARRANTY

PHOENIX®
DURABILITY X DESIGN™

WAYFINDER

- **WAYFINDER**

- ACCESS LIGHT WITH OPTIONAL INTEGRATED EMERGENCY BATTERY

- IDEAL FOR STAIRWAYS, CATWALKS AND ESCAPE ROUTE LIGHTING.

- 3-HOUR SPAN RUNNING ON BATTERY

- COMPACT AND WITH MODERN DESIGN.

- IT OFFERS UP TO 1,100 LUMENS WITH ONLY 9W.

- CAST ALUMINUM CASE AND WHITE THERMOSET POWDER COATING.

- 120-277V AC

- 5-YEAR WARRANTY.

PHOENIX®
DURABILITY X DESIGN™

MERIDIAN

- **MERIDIAN**

- IDEAL FOR LIGHTING YARDS AND LARGE AREAS.

- HIGH MAST FIXTURE DESIGNED TO WITHSTAND VIBRATION, HUMIDITY, SALT AND DUST CONDITIONS.

- PERFECT COMBINATION WITH THE LIT SYSTEM, ALLOWING TOTAL CONTROL IN EACH ACCESSORY - IIOT.

- AVAILABLE IN TWO SIZES/POWERS: MER-250 (40,000 LUMENS) AND MER-500 (80,000 LUMENS)

- 3G VIBRATION RESISTANCE

- UL 1598

- 120-240 V AC WITH POWER FACTOR 0.9 @ 277 V.

- 5-YEAR WARRANTY.

PHOENIX®
DURABILITY X DESIGN™

LIT SYSTEM™

- LIGHT INTELLIGENCE TECHNOLOGY: CONTROL AND MONITORING OF LIGHT WITH CUTTING-EDGE TECHNOLOGY.

- ZONE MANAGEMENT

- DATA COLLECTION AND REPORTING FOR SUPERIOR EFFICIENCY.

- ASSET MANAGEMENT TO REDUCE POWER CONSUMPTION AND MAXIMIZE DEVICE LIFE.

- DESIGNED TO MATCH PERFECTLY WITH OUR MERIDIAN DEVICE.

- WIRELESS COMMUNICATION BETWEEN APPLIANCES THAT ALLOWS YOU TO CONTROL EACH LUMINAIRE INDIVIDUALLY, CREATE ZONES, SCHEDULES, CONTROL ITS OPERATION, ENERGY CONSUMPTION AND DRASTICALLY REDUCE WIRING AND CIRCUIT COSTS IN INSTALLATION AND MAINTENANCE.

PHOENIX®
DURABILITY X DESIGN™

LIT SYSTEM™ – EASY TO INSTALL

1. OPEN APP AND SCAN QR CODE IN EACH CONTROLLER

2. CONNECT CONTROLLER TO THE FIXTURE
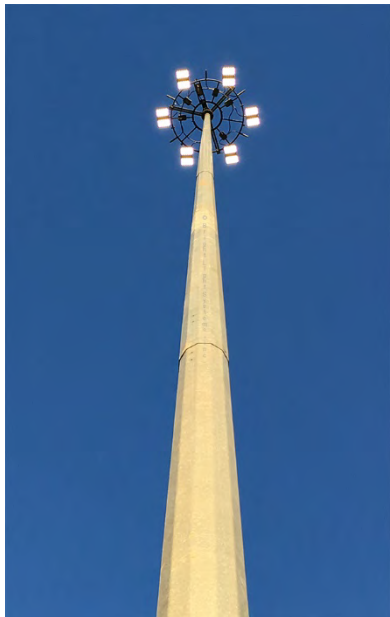
3. RAISE AND LIT UP THE MAST TO AUTO-CREATE THE MESH NET THROUGH THE GATEWAY

PHOENIX®
DURABILITY X DESIGN™

LIT SYSTEM™ – SYSTEM SCREEN

LIT SYSTEM™ – SYSTEM SCREEN

GLARE – A SAFETY ISSUE
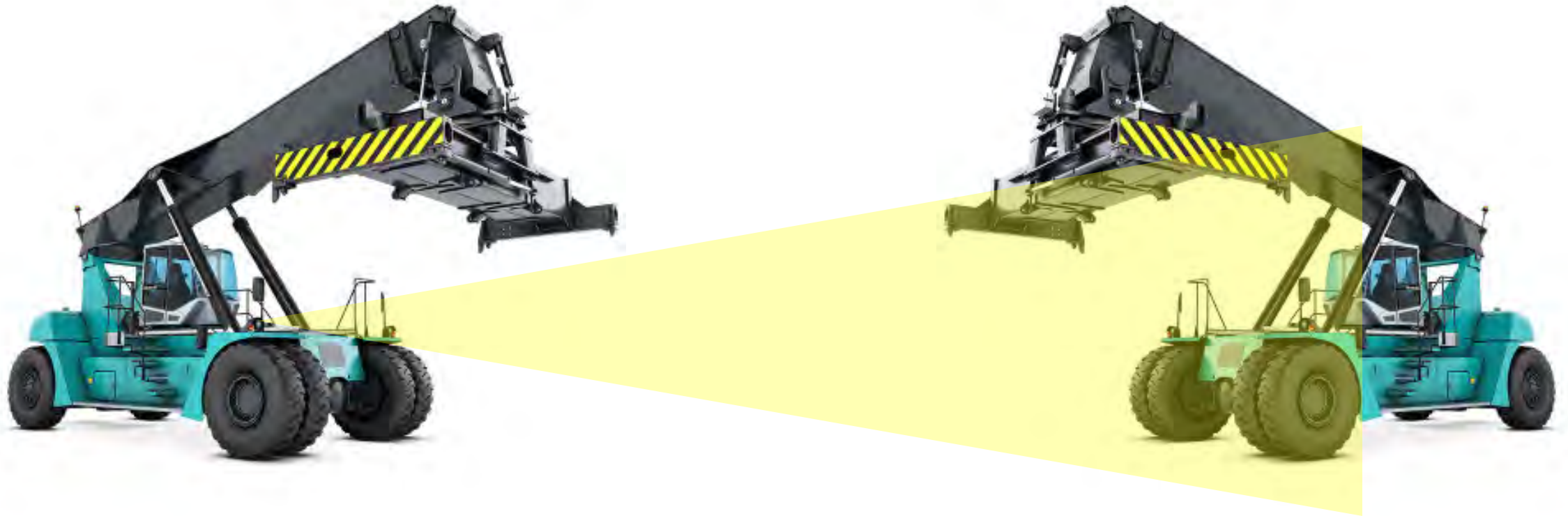
MASTER SERIES – NO GLARE OPTICS

without No-Glare technology

with No-Glare technology

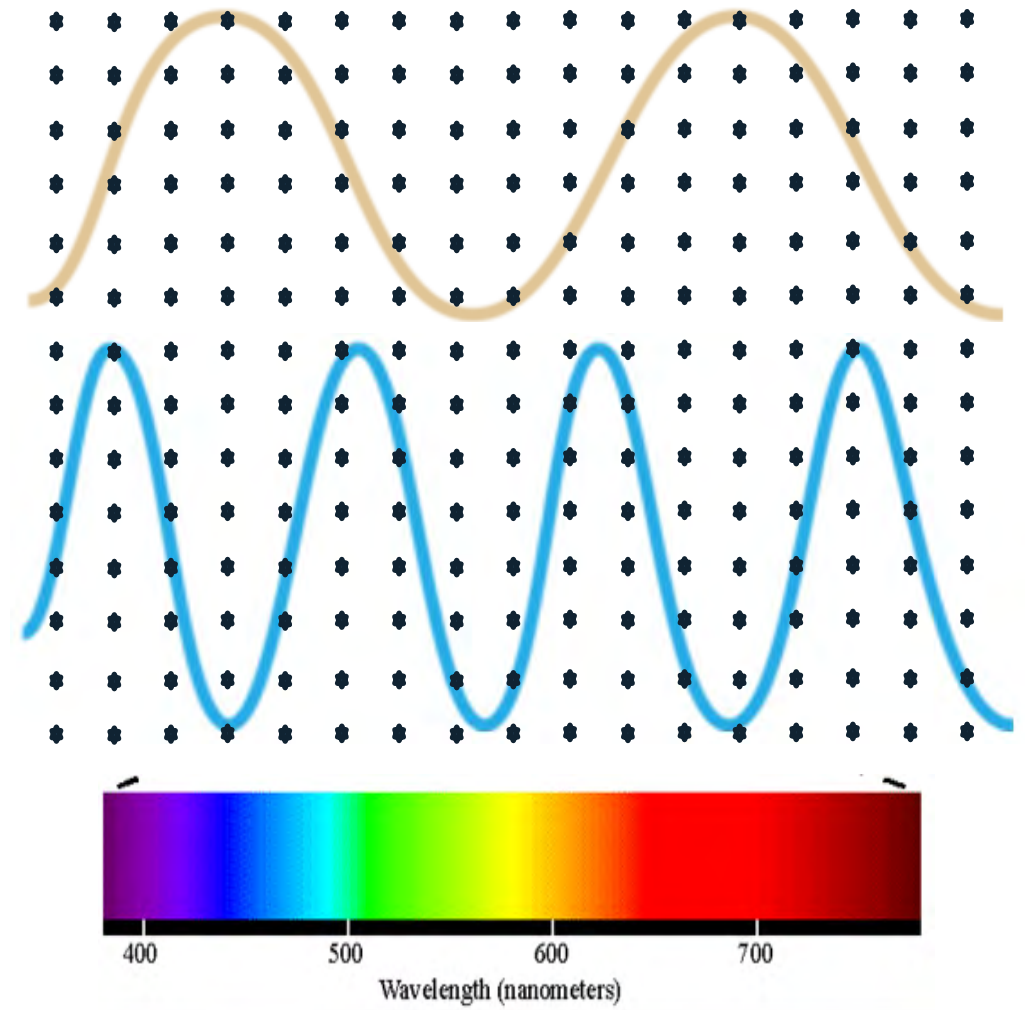**PHOENIX**®
DURABILITY **X** DESIGN™

MASTER SERIES

- EXTREMELY ROBUST PREMIUM DC LED HEADLIGHT (12-48V AND 24-48V) FOR MOBILE EQUIPMENT

- AVAILABLE IN THREE SIZES AND WATTAGES: 24W WITH 2500 LUMENS, 48W WITH 5000 LUMENS AND 74W WITH 7600 LUMENS

- OLEOPHOBIC LENS COATING PREVENTS THE ACCUMULATION OF DUST, WATER AND SLUDGE WHILE MAINTAINING ITS PHOTIC EFFICIENCY

- 4 OPTICS MINIMIZE GLARE AND PROVIDE OPTICAL CONTROL WITH 120° PIVOT

- AUTOMATIC LIGHT OUTPUT CONTROL WITH LUMEN REDUCTION FOR HIGH TEMPERATURE PROTECTION

- 3-YEAR WARRANTY

PHOENIX®
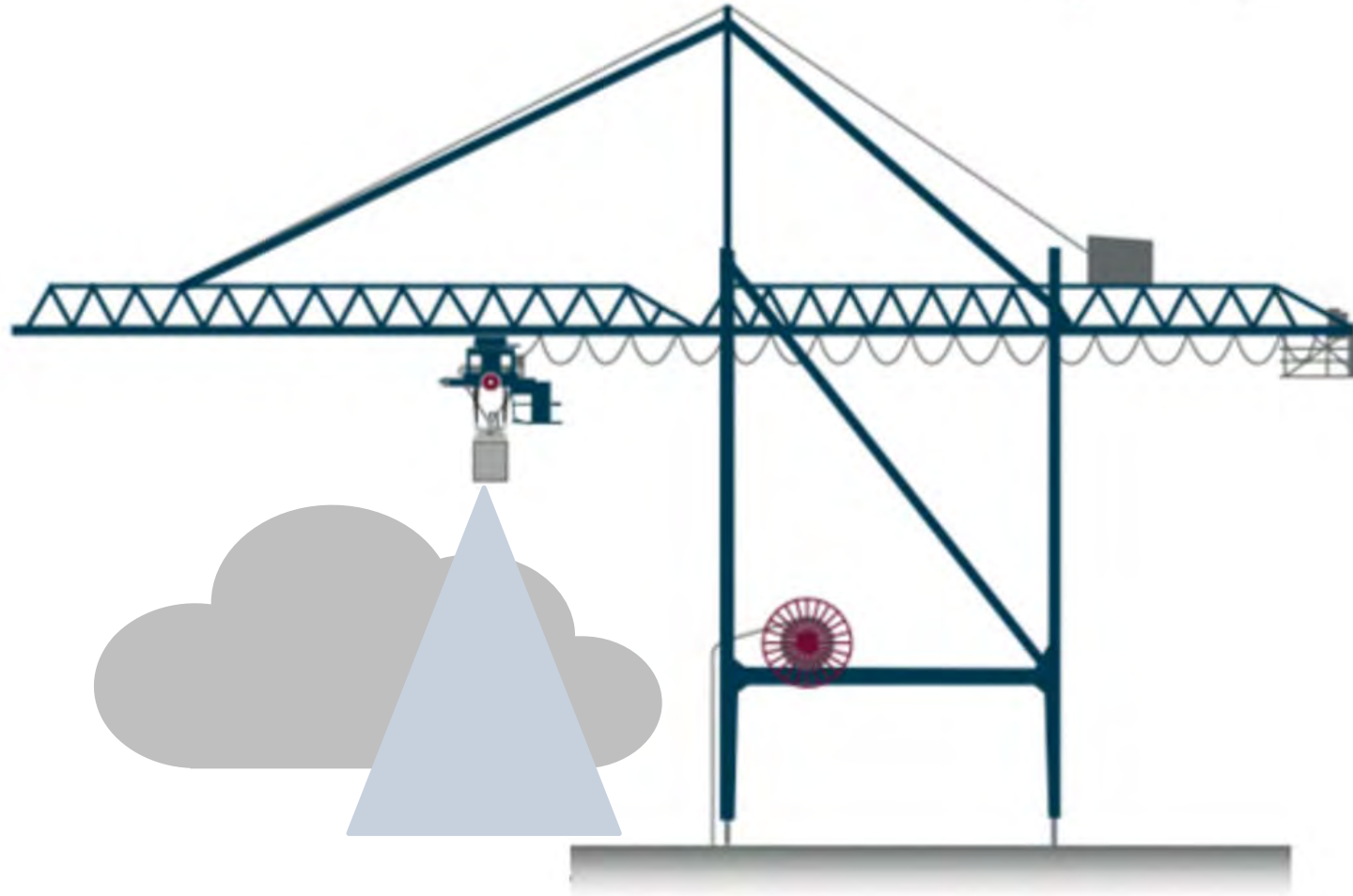DURABILITY X DESIGN™

MASTER SERIES - AMBER

MASTER SERIES – AMBER

- Longer wavelengths encounter fewer obstacles than shorter wavelengths

- With fog or dust, operators prefer amber light as it has a longer wavelength

- Amber MST available with CCT 2200K

Wavelength (nanometers)

FOG ISSUE

THANK YOU!

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