???

DEFECTIVE FIXTURE OR CUSTOMER ERROR

Unrefuted....Customer had received a shock while in the store! But the questions remained:

- What Caused the Shock?
- Was the Lighting Fixture Defective?
- Was the Lighting Fixture Grounded?
- Was the Lighting Display Bonded to Ground?

Evidence Viewed

- Security Video Files
- Four Employees Statements
- Evidence Light Fixture
- Evidence Fixture Display Rack
- Tests of Exemplar Fixture









Witness One Statements



 "Customer was pulling on the contact points of the lighting fixture then the electric arced and it shocked him."

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- The man told me that he wanted to check and see what type of pin was on our display fixture.

Witness One Statements



- "Customer was pulling on the contact points of the lighting fixture then the electric arced and it shocked him."
- "The man told me that he wanted to check and see what type of pin was on our display fixture.
- He showed me how he grabbed it, and where he grabbed it, right where the bulb connects to the fixture."

Witness Two Statements



"I asked if it had fallen on him and he said he was touching the display when it electrocuted him."

Witness Three Statements



"Customer stated he pulled back the plastic shield near where the pins plug in on the light fixture and got a shock."

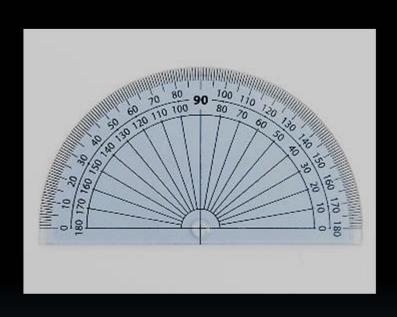
Witness Four Statements



 "Customer let me know he shocked himself on the display bulb".

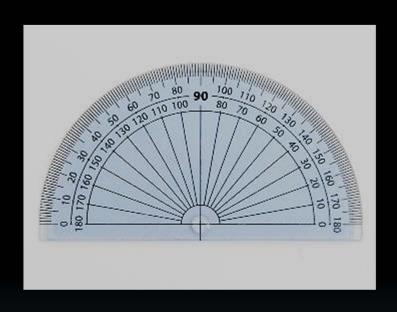
Photos of Evidence Fixture and Display Rack





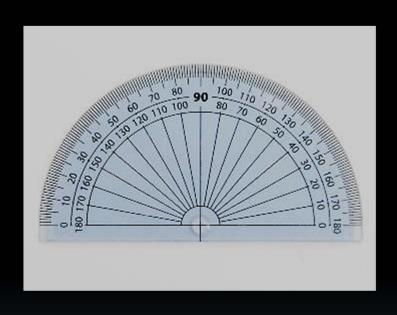
EVIDENCE FIXTURE

Problem Noted! Ground wire CUT and missing



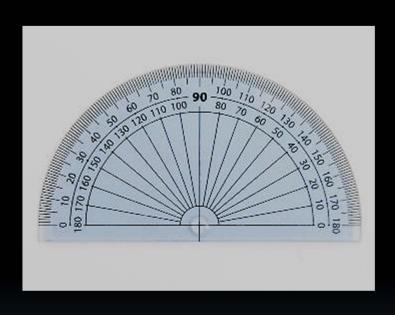
EVIDENCE FIXTURE

- Problem Noted! Ground wire CUT and missing
- Viewed Evidence Fixture Display



EVIDENCE FIXTURE

- Problem Noted! Ground wire CUT and missing
- Viewed Evidence Fixture Display
- Found Other Display
 Fixtures Missing Ground
 Wires too



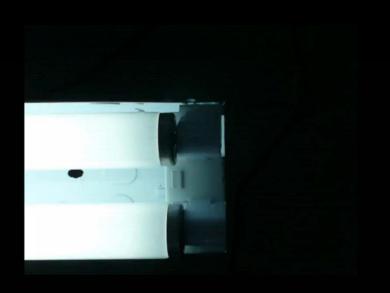
EVIDENCE FIXTURE

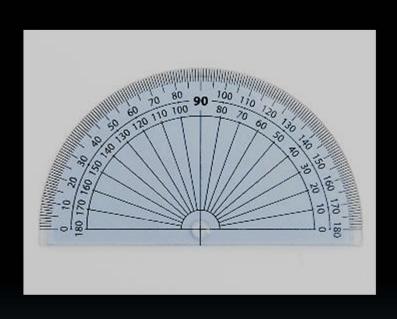
- Problem Noted! Ground wire CUT and missing
- Viewed Evidence Fixture Display
- Found Other Display Fixtures Missing Ground Wires too
- Fixture Supply Power to Display Rack, Tested at 120 Volts Tests OK

Photos of Exemplar Fixture



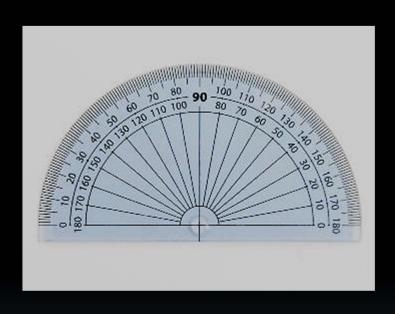
Movie of Arc Re-creation





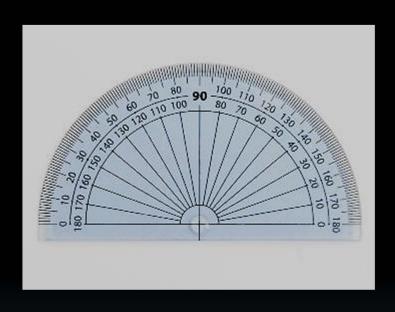
EXEMPLAR FIXTURE

Fixture Grounded



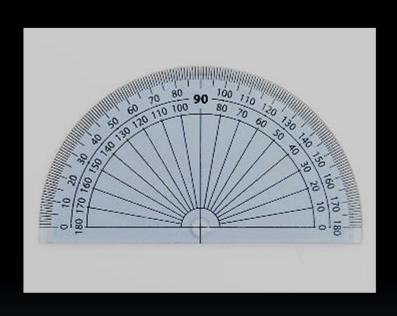
EXEMPLAR FIXTURE

- Fixture Grounded
- Voltage Measured to Ground



EXEMPLAR FIXTURE

- Fixture Grounded
- Voltage Measured to Ground
- Burn Mark Re-created



EXEMPLAR FIXTURE

- Fixture Grounded
- Voltage Measured to Ground
- Burn Mark Recreated
- Video Evidence Captured

Fixture <u>and</u> Display
 Found to be Grounded!



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- Burn on Lamp Holder Was Duplicated During Testing.
- Witness Reports State That Customer Touched End of Lamp While ON.
- Fingers and Forearm
 Were Burned.
- Testing of Exemplar Yielded a 355 Volt Shocking Discovery.



Based on the facts of the case that I reviewed and the electrical tests I conducted on the exemplar fixture and, to a reasonable degree of engineering certainty, I have the following conclusions:



 Customer DID Receive a Shock From Fixture Lampholder



- Customer DID Receive a Shock From Fixture Lampholder
- Fixture on Display was NOT Defective



- Customer DID Receive a Shock From Fixture Lampholder
- Fixture on Display was NOT Defective
- Shock was Caused by Customer Pulling Back the Lamp with His Hand Next to the Arcing Pin and the Electric Arc Conducted to the Nearest Grounded Surface...... the Customers Finger to the Grounded Forearm.



Questions?



Joseph Perry P.E.
Joseph Perry P.E., LLC
P.O. Box 141
Penngrove, CA 94951