

**Minutes**  
**Photometrics Working Group**  
Monday, 24 July 2017, 2:00 p.m. - 6:00 p.m. CDT  
D/FW Marriott Solana  
Westlake, TX

**Chairman:** Jerry Gorrell; Theatre Safety Programs; Theatre Safety Programs; P; U

**Members attending:**

Edward R. Condit; OSRAM Lighting Solutions (OSRAM Licht AG); O; MP  
Ed Hyatt; Boston Illumination Group, Inc.; P; CP  
Michael Lay; Philips Color Kinetics (Philips Lighting); P; MP  
Wendy Luedtke; Electronic Theatre Controls, Inc.; P; MP  
Karl G. Ruling; Unit 12 Productions; I; DE  
Larry Schoeneman; DesignLab Chicago, Inc.; P; DR  
Mike Wood; Mike Wood Consulting LLC; P; G

**Visitor:** Ireneusz Skoczowski, Elation Lighting

**Secretaries:** Erin Grabe & Karl G. Ruling; ESTA

**1 Opening Remarks**

Jerry Gorrell called the meeting to order at 2:02 p.m. CDT. He thanked those in attendance for coming. He appreciates the participation on this group.

**2 Attendance and membership**

**2.1 Introductions of those present and taking attendance**

Karl Ruling checked off names of members present on the sign-in sheet. Self-introductions took place.

**2.2 Determination of quorum**

*There are currently 8 possible votes. A quorum is 3; supermajority is 5.*

A supermajority was announced present by Jerry Gorrell, by a count of the voters present.

**2.3 Recognition of alternate voting members**

There were none to recognize.

**2.4 Requirements for membership**

The following statement was read aloud to the working group by Jerry Gorrell:

Membership is open to all who are affected by the work of the group. Voters who would be in the designer or dealer/rental company interest category in particular are encouraged to become members. There is an annual \$100 participation fee for all members. Voting members are required to attend meetings and to vote on letter ballots. Voting members and their alternates may not miss three consecutive meetings or three consecutive letter ballots without a loss of voting status.

**2.5 Changes to observer status due to lack of attendance**

Jerry Gorrell noted that the following voters have missed the last two meetings and are in jeopardy of a change to Observer status if this meeting is also missed:

Ken Vannice; Ken Vannice LLC; I; G NOT HERE. Moved to observer status.

Mike Wood; Mike Wood Consulting LLC; P; G HERE. No change in status.

**2.6 Processing of new membership requests and change of status or representation**

*As of 30 June 2017, the following new application has been received:*

George Gong; Philips Lighting; O; MP

Added to this was a request for voting status change:

Larry Schoeneman; Designlab Chicago; O change to P

Mike Wood moved to approve the applications. The motion was seconded and unanimously approved by a show of hands.

## 2.7 Consensus Body

The full consensus body during this meeting, including those not present, was:

Delegate	Representing	Voting status	Int. cat.
Mike Wagner	Arnold & Richter Cine Technik	P	MP
Ed Hyatt	Boston Illumination Group	P	CP
Larry Schoeneman	DesignLab Chicago, Inc.	P	DR
Wendy Luedtke	Electronic Theatre Controls, Inc.	P	MP
Mike Wood	Mike Wood Consulting LLC	P	G
Michael Lay	Philips Lighting	P	MP
Mitch Heffer	Philips Lighting	A	MP
Jerry Gorrell	Theatre Safety Programs	P	U
Karl G. Ruling	Unit 12 Productions	I	DE
	<b>Total votes possible</b>	<b>8</b>	
		1	CP
		1	DE
		1	DR
	Votes by interest categories	1	G
		3	MP
		1	U

## 3 Approval of the minutes from the last meeting

See *PHmin07-2016.pdf*.

Michael Lay moved to approve the minutes of the last meeting as written. The motion was seconded and unanimously approved by a show of hands.

## 4 ESTA declarations

### 4.1 Call for patents

The following statement was read aloud to the assembly by Jerry Gorrell:

ESTA intends not to publish any standard that contains protected intellectual property, unless that information can be licensed by anyone for a reasonable fee. ESTA uses a process of open patent and copyright disclosures to implement its intent. ESTA does not conduct patent or copyright searches and does not warrant that its standards contain no protected intellectual property.

In keeping with the open disclosures policy, I ask if anyone present wishes to notify this working group of the existence of a patent, patent application, copyright, or other intellectual property that might protect material in a standard being developed by this working group. You need not be the holder of the patent or copyright to notify this working group of its existence.

Nothing was revealed.

#### **4.2 Reading of the modified Anti-trust statement**

The following statement was read aloud to the assembly by Jerry Gorrell:

ESTA and its members take seriously their obligation to comply with all applicable antitrust laws. Therefore, during this meeting and during all ESTA events, all discussions will be limited to those subjects that are permitted by the antitrust laws. All members should refrain from any discussion or mention of competitively sensitive subjects such as the current or future prices charged for any member product or services, current or future marketing plans or strategies, and current or future costs, including employee salaries. There also must be no agreement on the suppliers or customers that members will or will not do business with or the markets in which members will conduct business.

Violations of the antitrust laws can have serious consequences. If you have any questions or concerns about anything that is discussed at a ESTA meeting, please bring your concern to ESTA management. An easy to read pamphlet describing the antitrust laws is available from the ESTA staff.

Karl Ruling and Erin Grabe held up copies of the pamphlet to the group. Nothing was revealed.

#### **5 Approval of agenda**

Mike Wood moved to approve the agenda as drafted. The motion was seconded and unanimously approved by a show of hands and voice votes.

#### **6 Old Business**

##### **6.1 ANSI E1.9 – 2007 (R2012), Reporting Photometric Performance Data for Luminaires Used in Entertainment Lighting** (Revision, reaffirmation, or withdrawal by 15 October 2017)

*Action on this standard will need to be taken at this meeting.*

Mike Wood moved to reaffirm the standard. The motion was seconded. Ed Hyatt asked whether or not there has been any feedback on the standard, positive or negative. Karl Ruling replied, saying that there has been little to no feedback. He said that some manufacturers are providing the recommended isolux diagrams and that the standard seems to have made a difference in the industry, although he knew of few that implemented all of the standard. Jerry Gorrell added that the standard has seen a lot of downloads, it's not at the bottom of the list.

A letter ballot will be issued to the working group with a concurrent public review.

##### **6.2 ANSI E1.25 – 2012, Recommended Basic Conditions For Measuring The Photometric Output Of Stage And Studio Luminaires By Measuring Illumination Levels Produced On A Planar Surface** (Revision, reaffirmation, or withdrawal by 15 October 2017)

*Action on this standard will need to be taken at this meeting.*

Jerry Gorrell asked whether there was anything new that would necessitate change of this standard. Mike Wood said that there are no changes needed.

Mike Wood moved to reaffirm the standard. The motion was seconded. A letter ballot will be issued to the working group with a concurrent public review.

##### **6.3 ANSI E1.35 – 2013, Lens Quality Measurements for Pattern Projecting Luminaires Intended for Entertainment Use** (Revision, reaffirmation, or withdrawal by 6 May 2018)

*Any news or action at this time?*

Jerry Gorrell said that action is need on this standard a little less that a year from now. Mike Wood said that this is a short standard, it's a good standard, but that it isn't used. The pattern (i.e., the gobo) is used, but not the standard. There was discussion on the usefulness of the standard, but the consensus of the group was to not

take action at this time.

**6.4 ANSI E1.36 – 2007 (R2012), Model Procedure for Permitting the Use of Tungsten-Halogen Incandescent Lamps and Stage and Studio Luminaires in Vendor Exhibit Booths in Convention and Trade Show Exhibition Halls** (Revision, reaffirmation, or withdrawal by 4 October 2017)

*Action on this standard will need to be taken at this meeting.*

Mike Wood says that this standard was written with a very specific need in mind, and the standard fixed that problem. Mike Wood moved to reaffirm the standard. The motion was seconded. A letter ballot will be issued to the working group with a concurrent public review.

**6.5 ANSI E1.41 – 2016, Recommendations for Measuring and Reporting Photometric Performance Data for Entertainment Luminaires Utilizing Solid State Light Sources** (Revision, reaffirmation, or withdrawal by 16 September 2021)

*It's published! Any news or action at this time?*

There was discussion on whether or not there should be a prescribed minimum light level at which equipment should be replaced. The consensus of the group was that light limits are already prescribed by law for egress and emergency lighting, and we shouldn't be writing on that topic. There was also discussion on the IES standards that deal with the topic. Karl Ruling said that we don't want to write similar or conflicting standards with the IES, and that letting them deal with the topic is good.

**6.6 ANSI E1.48 – 2014, A Recommended Luminous Efficiency Function for Stage and Studio Luminaire Photometry** (Revision, reaffirmation, or withdrawal by 27 January 2019)

No news or action at this time.

**6.7 ANSI E1.55 – 2016, Standard for Theatrical Makeup Mirror Lighting** (Revision, reaffirmation, or withdrawal by 16 September 2021)

No news or action at this time.

## **7 New business**

**7.1 ANSI E1.54 – 2015, PLASA Color Standard**

*ESTA rebranded all of the standards that were published under PLASA North America, including this one. However, the name of the standard contains PLASA, as do some of the terms in the document, like PLASA RGB. The standard would need to be opened for revision to change the name and terms to ESTA. In addition, Wendy Luedtke and Mike Wood think that some additional changes are needed to make the standard more easily accepted, such as swapping the two preferred methods: CIE coordinates and the RGB triangle.*

Wendy Luedtke said that she and Mike Wood have been discussing this standard. She noted that not many people use the standard, and the use of them is typically done with modifications. The standard did not solve the problem it was intended to solve, although the standard would solve the problem if it were used.

Mike Wood said that the standard uses an RGB triangle, which many people feel doesn't always work for them. He suggested that recommending the XY coordinates over the triangle may give the standard more traction in the market.

Mike Wood moved to open the document for revision. The motion was seconded by discussion. The motion carried with a unanimous show of hands and voice votes.

A PINS form for revision will be filed with ANSI. The consensus was that changes shall include rebranding PLASA to ESTA, and looking to see how the requirements of the standard can be modified to make the standard more useful.

### 7.3 Other New Business

None.

## 8 Other business and announcements

### 8.1 Above & Beyond Awards

Jerry Gorrell noted that the nomination site is open year round at [http://tsp.esta.org/tsp/news/award\\_nomination.html](http://tsp.esta.org/tsp/news/award_nomination.html). He urged members to nominate their peers.

### 8.2 ESTA Lifetime Technical Achievement Award

Jerry Gorrell said that long-time TSP member, Bob Goddard, is the first recipient of this new award, which he received this morning. The ceremony's lighting was briefly discussed.

### 8.3 INNOVA

Jerry Gorrell said that USITT and ESTA have partnered up to bring you INNOVA, an online learning platform for the entertainment technology industry. Check it out at <http://innova.usitt.org>. Content and content providers are being sought. If you are interested, email [standards@esta.org](mailto:standards@esta.org) to be put in touch with someone.

### 8.4 Please Direct People to ESTA's Website for Standards

*When you want people to be aware of our standards, or to put a copy in front of them, please direct them to [http://tsp.esta.org/tsp/documents/published\\_docs.php](http://tsp.esta.org/tsp/documents/published_docs.php) rather than providing copies on your own website or direct links to the published standards. There are several reasons for this.*

*1. The free downloads are sponsored by ProSight Specialty Insurance, which benefits from the promotion and from the opportunity people have to click on "Please send me more information about entertainment insurance." We need to earn their continued support by helping their sponsorship to return some value to them.*

*2. Some of the websites offering our standards are not up to date and list superseded standards as though they are the latest version. This could cause problems for the host company and our industry, because requirements in an old standard may not be the same as the requirements in a later version of that standard. Superseded standards are still available from ESTA, but they are watermarked, "Superseded," so people can get them if they need them, but it is clear that the old standards are not the current editions.*

*3. If you direct people to ESTA's site, they might also see the plea to help support the TSP as an Investor in Innovation. We need continuing support from the industry, and the broader that support is, the more secure we are and the less the burden is on any individual donor.*

*4. If you direct people to ESTA's site, they might see some other standards that will help them in their work. At a minimum, they will see the depth of the offerings and understand that there is standards work being done in a number of areas affecting our industry.*

*Please, promote your work with the TSP on your website. List all of the standards for this working group, that you've personally worked on, or that are pertinent to your business, but, please, direct people to [http://tsp.esta.org/tsp/documents/published\\_docs.php](http://tsp.esta.org/tsp/documents/published_docs.php) to download the standards. If nothing else, doing so would lessen your workload, because you wouldn't have to update the page every time a standard is reaffirmed or revised. That saves you time and money and perhaps makes a little money for the TSP.*

## 9 Schedule for future meetings

*The full meeting schedule may be found at <http://www.esta.org/ESTA/meetings.php>.*

### 9.1 November ESTA meetings

Jerry Gorrell said that the next meeting is tentatively scheduled for Thursday, 16 November 2017, from 1:00 p.m. - 3:00 p.m. PST at the Tropicana Hotel.

### 9.2 January ESTA meetings

Jerry Gorrell said that the January ESTA meetings are taking place in conjunction with the NAMM show in

Anaheim, California, which is scheduled for 25-28 January 2018.

**10 Adjournment**

Larry Schoeneman moved to adjourn the meeting. The motion was seconded. Hearing no objections, Jerry Gorrell declared the meeting adjourned at 3:04 p.m. CDT.

Name	Company	Representing	Voting status	Int. cat.
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Edward R. Condit	OSRAM Lighting Solutions	OSRAM Licht AG	O	MP
Bill Ellis	Candela Controls, Inc.	Candela Controls, Inc.	O	U
George Gong	Philips Lighting	Philips Lighting	O	MP
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Erin Grabe	ESTA	ESTA	exf	G
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	O	U
Mitch Hefter	Philips Lighting	Philips Lighting	A	MP
Ed Hyatt	Boston Illumination Group, Inc.	Boston Illumination Group	P	CP
Frank Kjær Jensen	Martin Professional ApS	Harman International Industries	O	MP
Michael Lay	Philips Color Kinetics	Philips Lighting	P	MP
Rick Loudenburg	Barbizon Light (Denver)	Barbizon Companies	O	DR
Wendy Luedtke	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP
Mark Ravenhill	GLP German Light Products Inc.	GLP German Light Products Inc.	O	MP
Karl G. Ruling	Unit 12 Productions	Unit 12 Productions	I	DE
Karl G. Ruling	ESTA	ESTA	exf	G
Larry Schoeneman	DesignLab Chicago, Inc.	DesignLab Chicago, Inc.	P	DR
Ford Sellers	Chauvet Lighting	Chauvet Lighting	O	MP
Keith Sklar	Actors' Equity Association	Actors' Equity Association	O	G
Robert Timmerman	Philips Color Kinetics	Philips Lighting	O	MP
Ken Vannice	Ken Vannice LLC	Ken Vannice LLC	O	G
Mike Wagner	ARRI Inc. (Calif.)	Arnold & Richter Cine Technik	P	MP
Mike Wood	Mike Wood Consulting LLC	Mike Wood Consulting LLC	P	G

**Keys to the Codes:**

## Interest category

CP Custom-market Producer  
DE DDesigner  
DR Dealer or Rental company  
G General interest  
MP Mass-market Producer  
U User

## Voting status

P Principal  
A Alternate  
I Individual  
O Observer