

Minutes
Photometrics Working Group
via WebEx
Thursday 19 January 2023

Chairperson: Jerry Gorrell; Theatre Safety Programs

Recording secretaries: Richard Nix & Karl Ruling; ESTA

Members attending:

Jerry Gorrell; Theatre Safety Programs; P; U
Karl G. Ruling; Unit 12 Productions; I; DE
Martin Palmer; Signify; P; MP
Mike Wood; Mike Wood Consulting LLC; P; G
Mitch Hefter; Signify; A; MP
Robert Haycock; Robert Haycock; O; U
Tucker Downs; ROE Visual USA; P; MP
Wendy Luedtke; Electronic Theatre Controls, Inc.; P; MP

1 Opening Remarks

Jerry Gorrell called the meeting to order at 15:14, late because Karl Ruling had read his calendar wrong and thought the meeting was at 16:00.

2 ESTA declarations

2.1 Call for patents

The following statement was read aloud to the working group 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.

2.2 Reading of the anti-trust statement

The following statement was read aloud to the working group 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 displayed one of the easy to read pamphlets. No restraint of trade issues were reported.

3 Attendance and membership

3.1 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.

3.2 Introductions of attendees

3.3 Determination of quorum

As of 15 December 2022, there are 10 voting members. A quorum is four. Six are needed for a supermajority vote. There were six voters present at the beginning of the meeting.

3.4 Processing of new membership and status change requests

Martin Palmer applied as Signify Principal; Mitch Hefter to be the alternate.

Mike Wood moved to accept the applications. The motion was seconded. The motion was approved without objection of abstentions.

3.5 Changes to observer status due to lack of participation

No changes due to absence, but Huang Qiancheng of Guangzhou Hayong Electronic Co., Ltd. (CP) is now an observer due to missed letter ballots.

3.6 Draft consensus body

Delegate	Representing	Voting status	Int. cat.
Michael Lay	Candela Controls, Inc	P	DR
Mark Primrose	Chauvet & Sons Inc.	P	MP
Jim Bogdanowicz	Chauvet & Sons Inc.	A	MP
Wendy Luedtke	Electronic Theatre Controls, Inc.	P	MP
Hans Lau	I.A.T.S.E. Local 728	P	U
Matthew Ardine	I.A.T.S.E. Local 728	A	U
Mike Wood	Mike Wood Consulting LLC	P	G
John David (Javid) Butler	HDR Consulting LLC	P	DE
Tucker Downs	ROE Visual USA	P	MP
Martin Palmer	Signify	P	MP
Mitch Hefter	Signify	A	MP
Steve Rust	Theatre Projects Consultants, Inc.	P	DE
Jerry Gorrell	Theatre Safety Programs	P	U
Karl G. Ruling	Unit 12 Productions	I	DE
	Total votes possible	11	
	Votes by interest category	0	CP
		4	MP
		3	DE
		1	DR
		1	G
		2	U

P = Principal voter; A = Alternate voter; I = Individual voter

CP = Custom-market Producer; MP = Mass-market Producer; DE = DEsigner; DR = Dealer/Rental company;
G = General interest; U = User

4 Approval of the minutes from the last meeting

See *PHmin09-2022_DRAFT.pdf*

Mike Wood moved to approve the draft minutes as written. The motion was seconded. The motion was approved without objection or abstention.

5 Approval of agenda

Wendy Luedtke moved to approve the draft agenda. The motion was seconded. The motion was approved without objection or abstention.

6 Old Business

6.1 BSR E1.75, Guidelines for the measurement and reporting of luminaire spectral power/absorbance for the entertainment industry

No report.

6.2 ANSI E1.9 – 2007 (R2017), Reporting Photometric Performance Data for Luminaires Used in Entertainment Lighting

Reaffirmation progress report. See Summary_E1-9_PublicReview-NoComments.pdf. There is one No vote in the working group that will require an attempt at resolution. See E1-9_BallotResults – Photo_2022-5019.pdf.

There was discussion of the standard, what it was designed to do and how things have changed since then that might suggest a revision. The document was originally conceived with luminaires with continuous spectrum sources in mind. It works for those instruments, but it would be useful to have a guidance document to encourage the reporting of color rendering. That will be another project; this standard is adequate now for the issue it was written to address. Tucker Downs moved to accept this resolution. The motion was seconded. The motion was approved without objection or abstention.

Tucker Downs changed his vote on the reaffirmation to Yes. Karl Ruling (Unit 12 Productions) changed his vote to a simple Yes, without comments, since his comments had been in response to a No vote which no longer stands.

6.3 ANSI E1.25 – 2012 (R2017), Recommended Basic Conditions For Measuring The Photometric Output Of Stage And Studio Luminaires By Measuring Illumination Levels Produced On A Planar Surface

Reaffirmation progress report. See E1-25_PublicReviewSummary-NoComments.pdf. There is one No vote in the working group that will require an attempt at resolution. See E1-25_BallotResults – Photo_2022-5018.pdf.

Resolution: The document was originally conceived with luminaires with continuous spectrum sources in mind. It works for those instruments, but it would be useful to have a guidance document to encourage the reporting of color rendering. That will be another project; this standard is adequate now for the issue it was written to address. Tucker Downs moved to accept this resolution. The motion was seconded. The motion was approved without objection or abstention.

Tucker Downs changed his vote on the reaffirmation to Yes. Karl Ruling (Unit 12 Productions) changed his vote to a simple Yes, without comments, since his comments had been in response to a No vote which no longer stands.

6.4 ANSI E1.35 – 2013 (R2022), Lens Quality Measurements for Pattern Projecting Luminaires Intended for Entertainment Use

It's been reaffirmed and published.

6.5 ANSI E1.36 – 2007 (R2022), 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

Reaffirmation, revision, or withdrawal by 2 May 2027.

No action or news.

6.6 BSR E1.41, Recommendations for Measuring and Reporting Photometric Performance Data for Entertainment Luminaires Utilizing Solid State Light Sources

The public review netted no comments. See E1-41_NoPubRevComments.pdf. Next steps?

Karl Ruling (Unit 12 Productions) moved that the draft standard be accepted as an ANS. The motion was seconded. The question will be decided by letter ballot.

6.7 ANSI E1.48 – 2014 (R2019), A Recommended Luminous Efficiency Function for Stage and Studio Luminaire Photometry

Revision, reaffirmation, or withdrawal by 08 January 2024.

No news or action now.

6.8 ANSI E1.54 – 2021, ESTA Color Standard and informational doc

Revision, reaffirmation, or withdrawal by 07 January 2026.

No news or action now.

6.9 ANSI E1.55 – 2016 (R2021), Standard for Theatrical Makeup Mirror Lighting

Revision, reaffirmation, or withdrawal by 1 November 2026.

No news or action now.

6.10 ANSI E1.69 – 2022, Reporting the Low-End Dimming Performance of Entertainment Luminaires Using LED Sources

Revision, reaffirmation, or withdrawal by 25 April 2027.

No news or action now.

7 New business

None.

8 Other business and announcements

8.1 Above & Beyond Awards

People were reminded that the Above & Beyond nomination site is open year-round at

http://tsp.esta.org/tsp/news/award_nomination.html.

8.2 Other announcements

None.

9 Schedule for future meetings

The full meeting schedule may be found at <http://www.esta.org/ESTA/meetings.php>. The Spring meetings will be via WebEx and in person, scheduled around the NAMM Show in April in Anaheim. The Photometrics meeting is scheduled for Thursday, April 13 , 3pm – 6pm. Richard Nix will send out a poll to see how many might be able to attend whether in person or on-line.

10 Adjournment

The agenda having been completed, Jerry Gorrell declared the meeting adjourned at 16:11.

Working group members and contact information as of 31 January 2023

Delegate	Representing	Voting status	Int. cat.
Matthew Ardine	I.A.T.S.E. Local 728	A	U
Robert Barbagallo	Solotech Inc.	O	DR
Justin Bennett	University of the Incarnate Word	O	U
Jim Bogdanowicz	CHAUVET & Sons Inc.	A	MP
John David (Javid) Butler	HDR Consulting LLC	P	DE
Tucker Downs	ROE Visual USA	P	MP
Bill Ellis	Candela Controls, Inc.	O	U
Mike Garl	Mike Garl Consulting LLC	exf	
Robert Goddard	Goddard Design Co.	O	CP
Nicolas Goerg	Rosco Laboratories	O	CP
Jerry Gorrell	Theatre Safety Programs	P	U
Erin Grabe	ESTA	exf	G
Tim Hansen	Oasis Stage Werks	O	U
Robert Haycock	Robert Haycock	O	U
Mitch Hefter	Signify	A	MP
Ed Hyatt	Boston Illumination Group	O	CP
Frank Kjær Jensen	Harman International Industries	O	MP
Timothy S. Kang	ASC, Motion Imaging Technical Council	O	CP
Hans Lau	I.A.T.S.E. Local 728	P	U
Michael Lay	Candela Controls, Inc	P	DR
Wendy Luedtke	Electronic Theatre Controls, Inc.	P	MP
Richard J. Nix	ESTA	exf	G
Jason Osterman	SGM Lighting, Inc	O	MP
Martin Palmer	Signify	P	MP
Mark Primrose	CHAUVET & Sons Inc.	P	MP
Huang Qiancheng	Guangzhou Haoyang Electronic Co., Ltd.	O	CP
Karl G. Ruling	Unit 12 Productions	I	DE

Working group members and contact information as of 31 January 2023

Delegate	Representing	Voting status	Int. cat.
Karl G. Ruling	ESTA	exf	G
Steven J. Rust	Theatre Projects Consultants, Inc.	P	DE
Ford Sellers	Chauvet Lighting	O	MP
Keith Sklar	Actors' Equity Association	O	G
Robert Timmerman	Signify	O	MP
Mike Wood	Mike Wood Consulting LLC	P	G

P = Principal voter; A = Alternate voter; I = Individual voter; O = Observer; exf = ex officio, not a voter
 CP = Custom-market Producer; MP = Mass-market Producer; DE = DDesigner; DR = Dealer/Rental company;
 G = General interest; U = User