

Minutes
Photometrics Working Group
27 July 2021
via WebEx

Working group leader: Jerry Gorrell; Theatre Safety Programs

Recording secretaries: Richard Nix & Karl Ruling; ESTA

Members attending:

Jason Osterman; SGM Lighting, Inc; P; MP
Jerry Gorrell; Theatre Safety Programs; P; U
John David (Javid) Butler; HDR Consulting LLC; P; DE
Justin Bennett; University of the Incarnate Word; P; U
Karl G. Ruling; Unit 12 Productions; I; DE
Mark Primrose; Kino Flo, Inc.; P; MP
Michael Lay; Candela Controls, Inc; P; DR
Mike Wood; Mike Wood Consulting LLC; P; G
Mitch Hefter; Signify; P; MP
Wendy Luedtke; Electronic Theatre Controls, Inc.; P; MP

1 Opening Remarks

Jerry Gorrell called the meeting to order at 15:03. He said he was glad to see us all on line, and he's glad to be here, too.

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.

A copy of the easy to read pamphlet was displayed by Karl Ruling.

No anti-trust concerns were raised.

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

Introductions were omitted since the group is small and all knew each other.

3.3 Determination of quorum

As of 7 July there are 13 voting members: a quorum is 5; the minimum for a supermajority is 7.
A majority of the working group's voters were present, enough people to pass a motion needing a supermajority.

3.4 Processing of new membership and status change requests

None as of 7 July 2021.

3.5 Changes to observer status due to lack of participation

Pete Borchetta (Altman Lighting) and Justin Bennett (University of the Incarnate Word) had missed the last two meetings and will be moved to observer status if this meeting is also missed.

Justin Bennett was present. There was no change to his voting status. .
Pete Borchetta did not attend. He was moved to observer status.

3.6 Consensus body during the meeting

Delegate	Representing	Voting status	Int. cat.
Michael Lay	Candela Controls, Inc	P	DR
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
Mark Primrose	Kino Flo, Inc.	P	MP
Jim Bogdanowicz	Kino Flo, Inc.	A	MP
Mike Wood	Mike Wood Consulting LLC	P	G
John David (Javid) Butler	HDR Consulting LLC	P	DE
Jason Osterman	SGM	P	MP
Mitch Hefter	Signify	P	MP
Jerry Gorrell	Theatre Safety Programs	P	U
Tucker Downs	Tucker Downs	I	G
Karl G. Ruling	Unit 12 Productions	I	DE
Justin Bennett	University of the Incarnate Word	P	U

Delegate	Representing	Voting status	Int. cat.
	Total votes possible	12	
	Votes by interest category	0	CP
		4	MP
		2	DE
		1	DR
		2	G
		3	U

4 Approval of the minutes from the last meeting

See PHmin04-2021_DRAFT.pdf.

Mike Wood moved that the draft minutes be accepted as written. The motion was seconded and then approved with no objections or abstentions.

5 Approval of agenda

Javid Butler moved that the draft agenda be approved. The motion was seconded. It was accepted with no objections or abstentions.

6 Old Business

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

Revision, reaffirmation, or withdrawal by 2 November 2022.

No action or news at this time.

6.2 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

Revision, reaffirmation, or withdrawal by 2 November 2022.

No action or news at this time.

6.3 ANSI E1.35 – 2013 (R2018), Lens Quality Measurements for Pattern Projecting Luminaires Intended for Entertainment Use

Revision, reaffirmation, or withdrawal by 27 February 2023

No action or news at this time.

6.4 ANSI E1.36 – 2007 (R2017), 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 2 November 2022

No action or news at this time.

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

From the April minutes: "Mike Wood said he would write a draft suitable for discussion at the next meeting."

Mike Wood said that Wendy Luedtke had offered comments on his draft. He welcomes more comments.

There was discussion of Wendy Luedtke's comments. Mike Wood agreed to all the suggested changes. Javid Butler also had some comments on standards for modulation frequencies.

Mike Wood said he would make the changes and we would look at it at the next meeting.

6.6 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 action or news at this time.

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

Revision, reaffirmation, or withdrawal by 07 January 2026

No action or news at this time.

6.8 ANSI E1.55 – 2016, Standard for Theatrical Makeup Mirror Lighting

Revision, reaffirmation, or withdrawal by 16 September 2021.

Karl Ruling of Unit 12 Productions moved that we reaffirm this standard. The motion was seconded. The decision shall be by letter ballot with a concurrent public review.

6.9 BSR E1.69, Reporting the Low-End Dimming Performance of Entertainment Luminaires Using LED Sources

See BSR_E1-69_202x-r6.pdf. It's simpler. Does it work?

There was discussion of Jason Osterman's comments on the marked-up draft sent yesterday.

Javid Butler said he would work on some test data to see if there is some kind of test and data manipulation that would work. Karl Ruling shall send the editable text to Javid Butler so he can work on the text.

6.10 BSR E1.73, Guidelines for the measurement and reporting of luminaire spectral power/absorbance for the entertainment industry

Any news or action?

Tucker Downs was not present. There was no report.

7 New business

None.

8 Other business and announcements

8.1 Above & Beyond Awards

Attendees 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 next meeting was announced as being to be determined, but probably late September or early October. (*Subsequent to this meeting, the next meeting date and time were fixed as Wednesday 29 September 2021 from 15:00 to 17:00 EDT.*)

10 Adjournment

There being no further business to conduct, Jerry Gorrell declared the meeting adjourned at 15:46.

Photometrics Working Group members as of 24 August 2021

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	P	U
Jim Bogdanowicz	Kino Flo, Inc.	A	MP
Pete Borchetta	Altman Lighting	O	MP
John David (Javid) Butler	HDR Consulting LLC	P	DE
Tucker Downs	Tucker Downs	I	G
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	UC Berkeley	O	U
Mitch Hefter	Signify	P	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	P	MP

Photometrics Working Group members as of 24 August 2021

Delegate	Representing	Voting status	Int. cat.
Mark Primrose	Kino Flo, Inc.	P	MP
Karl G. Ruling	Unit 12 Productions	I	DE
Karl G. Ruling	ESTA	exf	G
Steven J. Rust	Theatre Projects Consultants, Inc.	O	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

Key to codes:

P	Principal voter	CP	Custom-market producer
A	Alternate voter	DE	Designer
I	Individual voter	DR	Dealer/Rental company
O	Observer, non-voter	G	General interest
exf	ex officio, staff	MP	Mass-market producer
		U	User