

Minutes
Photometrics Working Group
via WebEx
Wednesday 19 January 2022

Chairperson:

Michael Lay presided until Jerry Gorrell arrived at 15:35.

Recording secretaries:

Karl Ruling and Richard Nix (ESTA)

Attendees:

Justin Bennett; University of the Incarnate Word; P; U
John David (Javid) Butler; HDR Consulting LLC; P; DE
Tucker Downs; Tucker Downs; I; G
Jerry Gorrell; Theatre Safety Programs; P; U
Ed Hyatt; Boston Illumination Group; O; CP
Michael Lay; Candela Controls, Inc; P; DR
Wendy Luedtke; Electronic Theatre Controls, Inc.; P; MP
Mark Primrose; CHAUVET & Sons Inc.; P; MP
Karl G. Ruling; Unit 12 Productions; I; DE
Steven J. Rust; Theatre Projects Consultants, Inc.; O; DE
Mike Wood; Mike Wood Consulting LLC; P; G

1 Opening Remarks

Michael Lay began the meeting at 15:04, in Jerry Gorrell's absence. He welcomed everyone to the meeting.

2 ESTA declarations

2.1 Call for patents

Michael Lay read the following statement aloud to the working group:

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

Michael Lay read the following statement aloud to the working group:

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 held up the pamphlet in front of his camera for all video-enabled attendees to see. No anti-trust concerns were raised.

3 Attendance and membership

3.1 Requirements for membership

Michael Lay read the following statement aloud to the working group:

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

Those present introduced themselves.

3.3 Determination of quorum

Karl Ruling announced that a quorum was present.

3.4 Processing of new membership and status change requests

As of 14 December 2021, one application had been received:

Huang Qiancheng; Guangzhou Haoyang Electronic Co., Ltd.; Principal; Custom-market Producer

Mike Wood moved to approve the application, but with Observer status since the applicant was not present. The motion was seconded and carried unanimously.

3.5 Changes to observer status due to lack of participation

None.

3.6 Consensus body, after all meeting actions:

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
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
	Total votes possible	12	
	Votes by interest category	0	CP
		4	MP
		2	DE
		1	DR
		2	G

		3	U
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4 Approval of the minutes from the last meeting

See PHmin09-2021_DRAFT.pdf

Mike Wood moved to approve the minutes. The motion was seconded, then carried without objection or abstention.

5 Approval of agenda

Javid Butler moved to approve the agenda. The motion was seconded, then carried without objection or abstention.

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.

Any news or action?

Mike Wood reminded everyone that the action deadline is approaching. No action now.

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.

Any news or action?

Michael Lay noted that the action deadline is also approaching. No action now.

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 news or action.

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

Any news or action?

Another action deadline approaches. Tucker Downs moved to reaffirm the standard. The motion was seconded. A public review will commence, followed by the letter ballot approving the motion. A BSR8 announcing the public review for reaffirmation will be filed with ANSI by ESTA staff.

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

See E1-41_2021-5005r2.pdf 303 KB

Summry_BSR-E1-41_PubRevwCmmnts13Dec2021.pdf

Mike Wood recapped the comment summary, and offered his thoughts on the commenter's proposed changes. There was discussion about possible resolutions, with the commenter, Wendy Luedtke, present at the meeting and participating. The discussion resulted in clear guidance to the task group, who expects to deliver formal comment resolutions with a revised draft soon.

(Jerry Gorrell took over running the meeting at this point.)

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 news or action.

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

Revision, reaffirmation, or withdrawal by 07 January 2026

No news or action.

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

Revision, reaffirmation, or withdrawal by 1 November 2026

No news or action.

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

See BSR_E1-69_202x-r6.pdf and E1-69_2ndReview_Summary.pdf

There were no public review comments. We can entertain a motion to accept it as an American National Standard or modify it and offer it for another public review if the changes are substantive.

Karl Ruling moved to approve the draft as an American National Standard. The motion was seconded. There was discussion. The working group consensus is that the draft currently satisfies the initial project request justification, and will serve a purpose in the industry. The motion will be decided by letter ballot.

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

Progress report.

Tucker Downs had previously sent a progress-draft for working group review. Discussion covered:

1. Absorbance. The title says the data format can work for absorbance as well as spectral output. Downs suggested it should continue to cover absorbance. with controllers used in the entertainment industry.
2. Reporting data outside the visible range. Downs said he had no objection to this. Mike Wood said that he gets questions about UV output from people working in or for museums.
3. Scaling. Do we scale the emitter outputs to some absolute value, to themselves, to different emitters? If we scale to the brightest emitter, the dimmer emitters would be way down in resolution. It might be more flexible to scale each to itself and then have a multiplication factor for each emitter to adjust between them. There was extensive discussion.

There was discussion of why we were doing this project at all, since other color communication standards exist. Mike Wood and Tucker Downs said that those other data formats did not work well for digital communication. The JSON data format is being used, not XML or something else. JSON is being used because it's the format chosen by the CPWG for a color communication protocol.

7 New business

None.

8 Other business and announcements

8.1 Above & Beyond Awards

Jerry Gorrell reminded people that the Above & Beyond nomination site is open year-round at http://tsp.esta.org/tsp/news/award_nomination.html.

8.2 Other announcements

9 Schedule for future meetings

The USITT Conference will be March 2 to 5. TSP meetings are to be scheduled around it, but no Photometrics meeting is on the schedule now. The consensus was that this working group does not need to have a working group meeting at the Conference or on-line around that time.

10 Adjournment

Having reached the end of the agenda, there being no further business, Jerry Gorrell declared the meeting adjourned at 16:38

Name	Representing	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

Name	Representing	Status	Int cat
Jim Bogdanowicz	CHAUVET & Sons 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
Robert Goddard	Goddard Design Co.	O	CP
Nicolas Goerg	Rosco Laboratories	O	CP
Jerry Gorrell	Theatre Safety Programs	P	U
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
Jason Osterman	SGM Lighting, Inc	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
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
		MP	Mass-market producer
exf	ex officio, staff	U	User