

**Minutes**  
**Photometrics Working Group**  
Friday 17 January 2020  
Wyndham Garden Anaheim  
Anaheim, CA

**Working group meeting leader:** Jerry Gorrell; Theatre Safety Programs

**Recording secretaries:** Richard Nix & Karl Ruling; ESTA

**Members attending:**

Justin Bennett; University of the Incarnate Word; P; U  
Jim Bogdanowicz; Kino Flo, Inc.; A; MP  
John David (Javid) Butler; Moda Light; P; MP  
Tucker Downs; Tucker Downs; O; G  
Jerry Gorrell; Theatre Safety Programs; P; U  
Timothy S. Kang; ASC, Motion Imaging Technical Council; P; CP  
Hans Lau; I.A.T.S.E. Local 728; P; U  
Michael Lay; Candela Controls, Inc; P; DR  
Jason Osterman; Altman Lighting; P; MP  
Mark Primrose; Kino Flo, Inc.; P; MP  
Karl G. Ruling; Unit 12 Productions; I; DE  
Larry Schoeneman; Larry Schoeneman; I; G  
Mike Wood; Mike Wood Consulting LLC; P; G

**Visitor:** Alan Rowe; IATSE Local 728

**1 Opening Remarks**

Jerry Gorrell called the meeting to order at 15:04. He thanked people for coming to the meeting.

**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 held up a copy of the easy-to-read pamphlet in front of the camera for all to see. No antitrust 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**

#### **3.3 Determination of quorum**

*As of 02 January 2020, there are 12 votes possible. A quorum would be at least four voters present. The minimum for a supermajority vote would be seven.*

Jerry Gorrell counted the voters present and on-line. He determined that more than 50% of the voting body was present, enough to pass a motion requiring a supermajority vote.

#### **3.4 Processing of new membership and status change requests**

*The following applications have been received since the last meeting:*

Michael Lay; Candela Controls, Inc.; Principal; Dealer/Rental company (Change of employment)  
Timothy S. Kang; ASC Motion Imaging Technical Council; P; CP (new application)  
Javid Butler; Moda Light; P; MP

Mike Wood moved to accept the applications. The motion was seconded and then approved unanimously.

Larry Schoeneman asked to be moved from observer to Individual member. Javid Butler so moved. The motion was seconded and then approved unanimously.

#### **3.5 Changes to observer status**

##### **3.5.1 Changes due to attendance**

None.

##### **3.5.2 Changes due to missed ballots**

None.

##### **3.5.3 Automatic status changes**

*The following automatic status changes have occurred since the last meeting:*

Javid Butler, removed from consensus body (no longer with HDR), but he had reapplied representing Moda Light and been accepted.

#### **3.6 Consensus body**

The consensus body during the meeting was:

Delegate	Representing	Voting status	Int. cat.
Jason Osterman	Altman Lighting	P	MP
Pete Borchetta	Altman Lighting	A	MP
Timothy S. Kang	ASC, Motion Imaging Technical Council	P	CP
Ed Hyatt	Boston Illumination Group	P	CP
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
Mark Primrose	Kino Flo, Inc.	P	MP
Jim Bogdanowicz	Kino Flo, Inc.	A	MP
Larry Schoeneman	Larry Schoeneman	I	G
Mike Wood	Mike Wood Consulting LLC	P	G
John David (Javid) Butler	Moda Light	P	MP
Nicolas Goerg	Rosco Laboratories	P	CP
Mitch Hefter	Signify	P	MP
Jerry Gorrell	Theatre Safety Programs	P	U
Karl G. Ruling	Unit 12 Productions	I	DE
Justin Bennett	University of the Incarnate Word	P	U
	<b>Total votes possible</b>	15	
	<b>Votes by interest category</b>	3	CP
		5	MP
		1	DE
		1	DR
		2	G
		3	U

#### 4 Approval of the minutes from the last meeting

See *PH\_Min10-2019\_DRAFT.pdf*

Javid Butler moved to accept the minutes as drafted. The motion was seconded and then approved.

#### 5 Approval of agenda

Mike Wood moved to approve the agenda. The motion was seconded and then approved.

#### 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 news or action.

**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 news or action.

**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)

No news or action.

**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)

No news or action.

**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 BSR E1.54, ESTA Color Standard**

*Task group: Wendy Luedtke, Mark Primrose, and Mike Wood*

Any news or action? Is there a new draft to consider or discuss?

Mike Wood reported that the notes section has been split out. The task group agreed that they want the split document (standard and notes) to be sent to the working group and to the members of the CPWG, working on color specification. ESTA staff are to distribute it.

Javid Butler, Tucker Downs, and Jim Bogdanowicz asked to be on the task group. Jerry Gorrell approved these additions.

Michael Lay issued an open invitation to Photometrics WG members to join CPWG Next Gen task groups.

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

No news or action.

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

Consideration or discussion of the most recent draft. Task group: Javid Butler, Justin Bennett, Karl Ruling, Pete Borchetta, and Jason Osterman.

There was discussion of adding words for dynamic changes. Javid Butler said he would suggest some text to add about dynamic changes.

**7 New business**

None, but there was a discussion of the needs of the cinematography industry for predicting how well light sources will work with various cameras for good color rendering.

**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](http://tsp.esta.org/tsp/news/award_nomination.html). The award is designed for members to highlight the work of their peers.

### **8.2 Education -- INNOVA**

Attendees were reminded that the INNOVA site can be accessed at <http://innova.usitt.org>. Content and content providers are still being sought. If you are interested, email [standards@esta.org](mailto:standards@esta.org) to be put in touch with someone.

### **9 Schedule for future meetings**

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

#### **9.1 Spring 2020 meetings (USITT, Houston, TX)**

The Spring 2020 meetings will be held in conjunction with the USITT conference in Houston, TX, from 01-04 April 2020. The complete schedule has not yet been confirmed, but the Photometrics Working Group is scheduled to meet from 9:00 to noon on Saturday 4 April.

#### **9.2 Summer 2020 meetings (NYC)**

The Summer 2020 meetings will be held in conjunction with the North American Theatre Engineering and Architecture Conference in New York City, scheduled for 19-20 July 2020 at the Roosevelt Hotel. The complete schedule has not yet been confirmed, but probably the working group meetings will be held a few days before NATEAC starts.

### **10 Adjournment**

Having reached the end of the agenda and no further business to be conducted, Jerry Gorrell declared the meeting adjourned at 16:02.

Delegate	Representing	Voting status	Int. cat.
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	A	MP
John David (Javid) Butler	Moda Light	P	MP
Tucker Downs	Tucker Downs	O	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	P	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	P	CP
Frank Kjær Jensen	Harman International Industries	O	MP
Timothy S. Kang	ASC, Motion Imaging Technical Council	P	CP
Hans Lau	I.A.T.S.E. Local 728	P	U
Michael Lay	Candela Controls, Inc	P	DR
Rick Loudenburg	Barbizon Companies	O	DR
Wendy Luedtke	Electronic Theatre Controls, Inc.	P	MP
Richard J. Nix	ESTA	exf	G
Jason Osterman	Altman Lighting	P	MP

Delegate	Representing	Voting status	Int. cat.
Mark Primrose	Kino Flo, Inc.	P	MP
Mark Ravenhill	GLP German Light Products Inc.	O	MP
Karl G. Ruling	Unit 12 Productions	I	DE
Karl G. Ruling	ESTA	exf	G
Larry Schoeneman	Larry Schoeneman	I	G
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

CP = Custom-market Producer

MP = Mass-market Producer

P = Principal voter

DE = DEsigner

U = User

A = Alternate voter

DR = Dealer or Rental company

I = Individual voter

G = General interest

O = Observer