

**Minutes**  
**Photometrics Working Group**

Friday, 20 November 2009  
Rosen Plaza Hotel  
9700 International Drive  
Orlando, Florida

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

**Recording secretary:** Karl G. Ruling; ESTA

**Members attending:** Rick Loudenburg; Barbizon Light (the Barbizon Companies); P; DR  
Ed Hyatt; Boston Illumination Group, Inc.; O; CP  
Doug MacDonald; Designlab Chicago; O; DR  
Gregg Esakoff; ETC West (Electronic Theatre Controls, Inc.); O; MP  
Ken Vannice; Leviton Manufacturing; P; MP  
Mike Wood; Mike Wood Consulting LLC; P; G  
Bill Klages; New Klages Inc.; O; U  
Ron Bonner; PLASA; P; G  
Michael Lay; Philips Strand Lighting (Royal Philips Electronics); P; MP

**Visitors:** None

### **1 Opening Remarks**

Jerry Gorrell called the meeting to order at 8:05.

### **2 Attendance and membership**

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

Those present introduced themselves to the assembly while a sunshine-yellow attendance sign-in sheet was circulated.

#### **2.2 Determination of quorum**

Jerry Gorrell noted the number of voting members present and then announce that the minimum for a quorum had been exceeded, so working group business could be conducted.

#### **2.3 Recognition of alternate voting members**

There are no alternate voting members in this working group.

#### **2.4 Requirements for membership**

Jerry Gorrell reminded the assembly that membership is open to all who are materially affected by the work of the group, but voting members are required to vote on letter ballots and to attend meetings. If a voting member and his alternate both miss three meetings in a row, they are moved to observer status. This will be done at the end of the third meeting missed.

#### **2.5 Processing of new membership requests**

Pending applications as of 11 November 2009:

- André Broucke; Observer; G
- Larry Busch; ADB Lighting Technologies; Observer; MP
- John Allard; Softsun; Observer; CP
- Dennis Thykjær Jørgensen; Martin Professional A/S; Observer; MP

Mike Wood moved that the applications be accepted. The motion was seconded and then approved with a unanimous show of hands.

## 2.6 The consensus body

The full consensus body during this meeting was:

Name	Company	Representing	Voting status	Int. cat.
Rick Loudenburg	Barbizon Light (Denver)	Barbizon Companies	P	DR
Ken Vannice	Leviton Manufacturing	Leviton Manufacturing Co., Inc.	P	MP
Mike Wood	Mike Wood Consulting LLC	Mike Wood Consulting LLC	P	G
Ron Bonner	PLASA	PLASA	P	G
Michael Lay	Philips Strand Lighting	Royal Philips Electronics	P	MP
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
		Total votes	6	
		Votes by interest category	0	CP
			2	MP
			1	DR
			1	U
			2	G

All the voting members were present.

## 3 Approval of the minutes from the 24 October 2008 meeting

Mike Wood moved that the draft minutes of the October 24 meeting be approved as written. The motion was seconded and then approved with a unanimous show of hands

## 4 ESTA declarations

### 4.1 Call for patents

The following statement was read aloud to the assembly by the chairman, 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 or 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."

No protected intellectual property was revealed.

### 4.2 Anti-trust statement

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

"The ESTA Board of Directors, the Technical Standards Committee, and the leadership of this working group will reject or nullify any actions that unlawfully restrain trade. Anyone who feels that such an action is being or has been taken is requested to bring that matter to the attention of the chair immediately. Anyone who feels that actions in restraint of trade have been taken and not properly annulled is requested to notify the TSC chair or ESTA president immediately.

"ESTA legal counsel has informed us that violations of the anti-trust laws can have serious consequences. Individuals engaged in certain unlawful conduct can be found criminally liable. An individual convicted of a criminal violation of the Sherman Act may be fined as much as \$1,000,000 and imprisoned for up to ten years.

An easy to read pamphlet describing restraint of trade issues is available from the Technical Standards Manager."

The Technical Standards Manager held up one of the eas-to-read pamphlets to show that they were available right here, right now. No one requested a copy. No restraint of trade issues where brought to the attention of the assembly.

## **5 Approval of agenda**

Ken Vannice moved that the draft agenda be approved. The motion was seconded and then approved with a show of hands.

## **6 Old Business**

### **6.1 ANSI E1.9-2007, Reporting Photometric Performance Data for Luminaires Used in Entertainment Lighting**

No news or action.

### **6.2 ANSI E1.25-2006, Recommended Basic Conditions For Measuring The Photometric Output Of Stage And Studio Luminaires By Measuring Illumination Levels Produced On A Planar Surface**

No news or action.

### **6.3 ANSI E1.35 - 2007, Lens Quality Measurements for Pattern Projecting Luminaires Intended for Entertainment Use**

No news or action.

### **6.4 ANSI E1.36 - 2007, 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**

No news or action.

## **7 New business**

### **7.1 Possible LED luminaire output reporting normative standard, recommendation, or guide**

(See JorgensenMeetingSummry.pdf, ColorMsrmtPrsntatnPLASA2009.pdf, ClrRndrngOf\_LEDs\_Ohno\_CIE2004.PDF, and CQS-opr008M5.pdf.)

There was discussion of the referenced documents (see above) and whether they were relevant to what this working group needs to do. ColorMsrmtPrsntatnPLASA2009.pdf was judged to be the central document. Karl Ruling said the others were ones that were referenced by the presentation document or that he had collected over the last couple of months that seemed to be relevant to the question of measuring LED output.

The consensus was that we should not take on too much, but should break down the big field to bits that we can accomplish. That is, get something done and then add to that, rather than trying to develop a standard that covers all of it.

Mike Wood said that he had not put something together, as the JorgensenMeetingSummry.pdf said that he would, because he wanted to get some input from this working group, more than the few people who were at that informal meeting at PLASA.

Jerry Gorrell asked for a vote on whether we want someone to write a proposal. Mike Wood moved that someone shall write a proposal for a standard-drafting project. The motion was seconded and then approved with a unanimous show of hands.

Mike Wood volunteered to write the proposal. There was further discussion of what this proposal might be: something about measuring white light, or something about measuring color production that can be compared to

luminaires that produce color by filtering white light. If it is about measuring white light, it would be about measuring white light produced by a series of narrow-band emitters rather than by using short-wave LEDs exciting broad-spectrum phosphors.

The consensus was to do a two-part proposal--white and colors--with the common thread being that narrow-band emitters are the sources of the light to be measured. It was suggested that broader band emitters that are then filtered with narrow-band filters might also be covered by this project.

## **7.2 Other new business**

None.

## **8 Other business**

### **8.1 New P&P**

The new P&P was briefly discussed. It's approval by ANSI is pending.

### **8.2 Other other business**

None.

## **9 Schedule for future meetings**

We've been on a once-a-year meeting schedule. Is this still reasonable?

The consensus was that we'll next meet in March. Mike Wood thinks that he can have the draft proposal done by then.

## **10 Changes to observer status**

Principals (and alternates, if applicable) who have missed the last two meetings and who will have not meet the minimum attendance requirements for voters if this meeting also is missed:

- None

## **11 Adjournment**

Ron Bonner moved that the meeting adjourn. The motion was seconded and then approved with a unanimous show of hands. Jerry Gorrell declared the meeting adjourned at 09:16.

**Working Group Membership and Contact Information as of 17 December 2009**

Name	Company	Representing (Sort field)	Voting status	Int. cat.
Larry Busch	ADB Lighting Technologies	ADB Lighting Technologies	O	MP
John Luk	Altman Stage Lighting	Altman Stage Lighting	O	MP
John T. Ryan	Altman Stage Lighting	Altman Stage Lighting	O	MP
André Broucke	André Broucke	André Broucke	O	G
Rick Loudenburg	Barbizon Light (Denver)	Barbizon Companies	P	DR
Lee J. Bloch	Bloch Design Group, Inc.	Bloch Design Group, Inc.	O	U
Ed Hyatt	Boston Illumination Group, Inc.	Boston Illumination Group	O	CP
Bill Ellis	Candela Controls, Inc.	Candela Controls, Inc.	O	U
Francesco Romagnoli	Clay Paky S.P.A.	Clay Paky S.P.A.	O	MP
David Bertenshaw	David Bertenshaw	David Bertenshaw	O	G
Doug MacDonald	Designlab Chicago	Designlab Chicago Inc.	O	DR
A C Hickox	Domingo Gonzalez Associates	Domingo Gonzalez Associates	O	U
Gregg Esakoff	ETC West	Electronic Theatre Controls, Inc.	O	MP
Jim McHugh	Humboldt State University/IES	Humboldt State University	O	U
Jim Grosh	Jim Grosh Associates	Jim Grosh Associates	O	G
Ken Vannice	Leviton Manufacturing	Leviton Manufacturing Co., Inc.	P	MP
Afsan Quazi	Lighting & Electronics, Inc.	Lighting & Electronics, Inc.	O	G
Heidi Hyldahl	Martin Professional A/S	Martin Professional A/S	O	MP
Dennis Thykjær Jørgensen	Martin Professional A/S	Martin Professional A/S	O	MP
Hiroshi Kita	Marumo Electric Co., Ltd.	Marumo Electric Co., Ltd.	O	MP
Mike Wood	Mike Wood Consulting LLC	Mike Wood Consulting LLC	P	G
Bill Klages	New Klages Inc.	New Klages Inc.	O	U
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	O	U
Ron Bonner	PLASA	PLASA	P	G

Name	Company	Representing (Sort field)	Voting status	Int. cat.
James Eade	PLASA	PLASA	O	G
Ron Rykowski	Radiant Imaging, Inc.	Radiant Imaging, Inc.	O	G
Francois Juliat	Robert Juliat	Robert Juliat	O	MP
Michael Lay	Philips Strand Lighting	Royal Philips Electronics	P	MP
Mitch Heffer	Entertainment Technology	Royal Philips Electronics	O	G
John Allard	Softsun	Softsun	O	CP
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Joseph M. Good, III	Spectrum Professional Services	Spectrum Professional Services	O	G
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Larry Lieberman	Vision Quest Lighting	Vision Quest Lighting	O	CP

**Key to codes:**

- |   |                          |    |  |
|---|--------------------------|----|--|
| P | principal voting member  | MP | mass-market producer interest category     |
| A | alternate voting member  | CP | custom-market producer interest category   |
| I | individual voting member | DR | dealer or rental company interest category |
| O | observer, non-voting     | U  | user interest category                     |
|   |                          | G  | general-interest interest category         |