

**Minutes**  
**Photometrics Working Group**  
Friday 22 November 2013  
The Las Vegas Hotel  
Las Vegas, NV

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

**Recording secretaries:** Erin Grabe; PLASA  
Karl G. Ruling; PLASA

**Members attending:**

Charles H. Green; O; U  
Ed Hyatt; Boston Illumination Group; O; CP  
Michael Lay; Royal Philips; P; MP  
Karl G. Ruling; Unit 12 Productions; I; DE  
Ken Vannice; Ken Vannice LLC; I; G  
Mike Wagner; Arnold & Richter Cine Technik; P; MP  
Mike Wood; Mike Wood Consulting LLC; P; G

**Visitor:** Jennie Gorrell

**1 Opening Remarks**

The meeting was called to order by Jerry Gorrell at 8:06, after a slight delay while people found the meeting room.

**2 Attendance and membership**

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

A chartreuse sign-in sheet went counterclockwise around the group and self-introductions followed.

**2.2 Determination of quorum**

A supermajority was announced present.

**2.3 Recognition of alternate voting members**

**2.4 Requirements for membership**

*The following statement was read aloud to the working group by Jerry Gorrell:*

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 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:

There are currently no voting members in jeopardy of a change in status.

**2.6 Processing of new membership requests**

Pending applications:

Kenneth Vannice; Kenneth Vannice LLC; I; G

Mike Wood moved to accept the application. The motion was seconded and approved by a show of hands.

## 2.6 Consensus body

The full consensus body during this meeting, including those not present, was:

Name	Representing	Voting Status	Interest Category
Mike Wagner	Arnold & Richter Cine Technik	P	MP
Mark Ravenhill	GLP German Light Products GmbH	P	MP
Markus Salm	GLP German Light Products GmbH	A	MP
Ken Vannice	Ken Vannice LLC	I	G
Mike Wood	Mike Wood Consulting LLC	P	G
Michael Lay	Royal Philips	P	MP
Jefferey Knox	Schuler Shook	P	DE
Kimberly Corbett Oates	Schuler Shook	A	DE
Jerry Gorrell	Theatre Safety Programs	P	U
Karl G. Ruling	Unit 12 Productions	I	DE

	Total
<b>CP</b> (Custom-market Producer)	<b>0</b>
<b>DE</b> (Designer)	<b>2</b>
<b>DR</b> (Dealer or Rental company)	<b>0</b>
<b>G</b> (General interest)	<b>2</b>
<b>MP</b> (Mass-market Producer)	<b>3</b>
<b>U</b> (User)	<b>1</b>
<b>Total votes possible</b>	<b>8</b>

## 3 Approval of the minutes from the 6 June 2013 teleconference meeting

See *PHmin06-2013.pdf*.

Mike Wood moved to approve the draft minutes. The motion was seconded and approved by a show of hands.

## 4 PLASA declarations

### 4.1 Call for patents

*The following statement was read aloud to the working group by Jerry Gorrell:*

PLASA intends not to publish any standard that contains protected intellectual property, unless that information can be licensed by anyone for a reasonable fee. PLASA uses a process of open patent and copyright disclosures to implement its intent. PLASA 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.

Nothing was reported.

### 4.2 Anti-trust statement

*The following statement was read aloud to the working group by Jerry Gorrell:*

The PLASA Board of Directors, the Technical Standards Council, 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 PLASA chair immediately.

PLASA 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 pamphlet was held up by Erin Grabe. Nothing was reported.

## **5 Approval of agenda**

Karl Ruling noted that there are two sets of comment resolutions to be discussed.

Ken Vannice moved to approve the modified agenda. The motion was seconded and approved by a show of hands.

## **6 Old Business**

### **6.1 ANSI E1.9 - 2007 (R2012), Reporting Photometric Performance Data for Luminaires Used in Entertainment Lighting** (Revision, reaffirmation, or withdrawal by 2017)

No news or action.

### **6.2 ANSI E1.25 - 2012, 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 2017)

No news or action.

### **6.3 ANSI E1.35 - 2013, Lens Quality Measurements for Pattern Projecting Luminaires Intended for Entertainment Use** (Revision, reaffirmation, or withdrawal by 2018)

No news or action.

### **6.4 ANSI E1.36 - 2007 (R2012), 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 2017)

No news or action.

### **6.5 ANSI E1.41 - 2012 , Recommendations for Measuring and Reporting Photometric Performance Data for Entertainment Luminaires Utilizing Solid State Light Sources** (Revision, reaffirmation, or withdrawal by 2017)

No news or action.

### **6.6 BSR E1.48, a luminous efficiency function**

*Considering a resolution to the one public review comment. See [Summry\\_E1-48\\_2ndResols.pdf](#) and [BSR\\_E1-48r2.pdf](#)*

Mike Wood move to accept the drafted resolution. The motion was seconded and approved by a unanimous show of hands, which was six out of a consensus body of eight, a supermajority.

See [Bertenshaw\\_LateComments+Resols.doc](#)

The draft resolutions were modified. Mike Lay moved that the group accept the revised resolution document. The motion was seconded and approved by a unanimous show of hands, which was six out of a consensus body of eight, a supermajority.

Mike Wood moved that the draft be accepted as an American National Standard. The motion was seconded. The question will be decided by letter ballot.

## **7 New business**

*From the draft June 2013 minutes:*

*Mike Wood said that we don't have a common language for color so that we can translate color settings between luminaires and control desks. Is this the forum for establishing a common language, and is there the interest?*

*There was discussion. The response from those on the call was generally positive. Ruling will lay out some background for the issue in Protocol, and then from that we can poll or in some other way assess the interest in the industry.*

Mike Wood said that he still wants to address this, but there is no point in doing it unless there is buy-in from manufacturers before we start. People he has spoken to have been luke-warm positive, saying it's a good idea, but being unable to commit.

Mike Wood proposed writing a white paper laying out the issue and possible solutions. It could be sent to the great and good for comment, and also published in Protocol. He agreed to do this.

Caralon has their own proprietary protocol, reported Wood, that they use to translate color channel settings between different luminaires. They think it is a good idea, and would not have a problem a published method of doing this.

Mike Wagner described the ARRI calibration procedure that eventually resolves to HSI control. That implies that an RGB color space is used in the calculations, said Mike Wood. He asked Wagner if he would see if he could share the ARRI RGB color space with us. Wagner said he would see if he could.

## **8 Other business**

No other business.

## **9 Schedule for future meetings**

Consensus of group is to have no meeting in January, but to plan for a meeting at USITT 2014.

## **10 Adjournment**

Ken Vannice moved the meeting adjourn. The motion was seconded. Hearing no objections and the agenda being completed, Jerry Gorrell declared the meeting adjourned at 09:07.

Name	Company	Representing	Voting Status	Int. Cat.
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Mosè Benaglia	Clay Paky S.P.A.	Clay Paky S.P.A.	O	MP
David Bertenshaw	David Bertenshaw	David Bertenshaw	O	G
Lee J. Bloch	Bloch Design Group, Inc.	Bloch Design Group, Inc.	O	U
Ron Bonner	PLASA Technical Resources Office	PLASA EU	O	G
André Broucke	André Broucke	André Broucke	O	G
Jeremy Day	Philips Color Kinetics	Royal Philips	O	MP
Bill Ellis	Candela Controls, Inc.	Candela Controls, Inc.	O	U
Gregg Esakoff	ETC West	Electronic Theatre Controls, Inc.	O	MP
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Charles H. Green	Charles H. Green	Charles H. Green	O	U
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	O	U
Mitch Hefter	Mitch Hefter	Mitch Hefter	O	G
A C Hickox	Domingo Gonzalez Associates	Domingo Gonzalez Associates	O	U
Ed Hyatt	Boston Illumination Group, Inc.	Boston Illumination Group	O	CP
Joseph M. Good_III	Spectrum Professional Services	Spectrum Professional Services	O	G
Dennis Thykjær Jørgensen	Martin Professional A/S	Martin Professional A/S	O	MP
Francois Juliat	Robert Juliat	Robert Juliat	O	MP
Hiroshi Kita	Marumo Electric Co., Ltd.	Marumo Electric Co., Ltd.	O	MP
Bill Klages	New Klages Inc.	New Klages Inc.	O	U
Jefferey Knox	Schuler Shook	Schuler Shook	P	DE
Michael Lay	Philips Color Kinetics	Royal Philips	P	MP
Larry Lieberman	Vision Quest Lighting	Vision Quest Lighting	O	CP
Rick Loudenburg	Barbizon Light (Denver)	Barbizon Companies	O	DR
Doug MacDonald	Designlab Chicago	Designlab Chicago Inc.	O	DR

Name	Company	Representing	Voting Status	Int. Cat.
Jim McHugh	Humboldt State University/IES	Humboldt State University	O	U
Kimberly Corbett Oates	Schuler Shook	Schuler Shook	A	DE
Mark Ravenhill	GLP German Light Products Inc.	GLP German Light Products GmbH	P	MP
Karl G. Ruling	Unit 12 Productions	Unit 12 Productions	I	DE
John T. Ryan	Altman Stage Lighting	Altman Stage Lighting	O	MP
Ron Rykowski	Radiant Imaging, Inc.	Radiant Imaging, Inc.	O	G
Markus Salm	GLP German Light Products GmbH	GLP German Light Products GmbH	A	MP
Robert Timmerman	Philips Color Kinetics	Royal Philips	O	MP
Ken Vannice	Ken Vannice LLC	Ken Vannice LLC	I	G
Mike Wagner	ARRI Inc. (Calif.)	Arnold & Richter Cine Technik	P	MP
Mike Wood	Mike Wood Consulting LLC	Mike Wood Consulting LLC	P	G
Garrett Young	Prism Projection, Inc.	Prism Projection, Inc.	O	MP

#### Voting Status and Interest Category Legend

<b>P</b> principal voting member	<b>CP</b> custom-market producer
<b>A</b> alternate voting member	<b>MP</b> mass-market producer
<b>I</b> individual voting member	<b>DE</b> designer
<b>O</b> observer non-voting member	<b>DR</b> dealer/rental company
	<b>U</b> user
	<b>G</b> general interest