

Minutes
Photometrics Working Group
Friday, 21 November 2014
Westgate Las Vegas Resort & Casino
Las Vegas, NV

Presiding Chairperson: Jerry Gorrell; Theatre Safety Programs; P; U

Recording Secretary: Erin Grabe; PLASA NA; exf; G

Members attending:

Mitch Heffer; Philips Lighting; Royal Philips; A; MP
Ed Hyatt; Boston Illumination Group, Inc.; Boston Illumination Group; O; CP
Michael Lay; Philips Color Kinetics; Royal Philips; P; MP
Wendy Luedtke; Rosco Laboratories; Rosco Laboratories; P; MP
Karl G. Ruling; Unit 12 Productions; I; DE
Markus Salm; GLP German Light Products GmbH; A; MP
Larry Schoeneman; DesignLab Chicago, Inc.; P; DR
Keith Sklar; Actors' Equity Association; O; G
Ken Vannice; I; G
Mike Wagner; ARRI Inc. (Calif.); Arnold & Richter Cine Technik; P; MP
Mike Wood; Mike Wood Consulting LLC; P; G

Visitors present:

Tim Bachman; Altman Lighting

1 Opening Remarks

Jerry Gorrell called the meeting to order at 8:00.

2 Attendance and membership

2.1 Introductions of those present and taking attendance

Self-introductions took place clockwise around the table, while a bright yellow sign-in sheet was passed counter clockwise. Introductions ended with Wendy Leudtke and Keith Sklar, joining remotely.

2.2 Determination of quorum

There are currently 9 votes possible. A quorum is 3. A supermajority is 5.

Jerry Gorrell counted the voting members present and announced that a quorum had been reached.

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 due to lack of attendance

There were no voters in jeopardy of a change in voting status to Observer due to lack of attendance.

2.6 Processing of new membership requests

The following applications have been received and logged:

Frank Kjær Jensen; Martin Professional ApS; Harman International Industries; O; MP

Wendy Luedtke; Rosco Laboratories; P; MP
Keith Sklar; Actors' Equity; O; G

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

2.7 Consensus body

The full consensus body of this working group at the time of this meeting, including those not present, was:

Name	Representing	Voting Status	Interest Category
Mike Wagner	Arnold & Richter Cine Technik	P	MP
Larry Schoeneman	DesignLab Chicago, Inc.	P	DR
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
Wendy Luedtke	Rosco Laboratories	P	MP
Michael Lay	Royal Philips	P	MP
Mitch Heffer	Royal Philips	A	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
Voting Status Key: P = Principal voter, A = Alternate voter, I = Individual voter			
Votes by Interest Category:			
Custom-market producer		CP	0
Designer		DE	2
Dealer or rental company		DR	1
General interest		G	2
Mass-market producer		MP	4
User		U	1
Total votes possible:			10

3 Approval of the minutes from the previous meeting

See *PHmin07-2014.pdf*.

Larry Schoeneman moved to approve the minutes of the previous meeting. The motion was seconded and approved by a show of hands and voice vote, with one abstention.

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 revealed with regard to patents or other intellectual properties.

4.2 Reading of the anti-trust statement

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

PLASA and its members take seriously their obligation to comply with all applicable antitrust laws. Therefore, during this meeting and during all PLASA 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 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 PLASA meeting, please bring your concern to PLASA management. An easy to read pamphlet describing the antitrust laws is available from the PLASA staff.

Erin Grabe held up the pamphlet. Nothing was revealed with regard to anti-trust issues.

5 Approval of agenda

Michael Lay moved to approve the agenda as drafted. The motion was seconded and unanimously approved by a show of hands and voice vote.

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 at this time.

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 at this time.

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 at this time.

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 at this time, though Erin Grabe reported that this standard was referenced in an email to PLASA member-exhibitors before LDI. With that email, there was a spike in the number of downloads.

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 at this time.

6.6 ANSI E1.48 - 2014, A Recommended Luminous Efficiency Function for Stage and Studio Luminaire Photometry (Revision, reaffirmation, or withdrawal by 2019)

No news or action at this time.

6.7 BSR E1.54, PLASA Color Standard

Next step? See BSR_E1-54-201x.pdf or a later version, which will have "r1" in the file name.

Mike Wood moved that the draft standard be offered for public review. The motion was seconded, and there was discussion with regard to colors that might fall outside the gamut. Mike Wagner questioned the math and the use of degrees. The math was checked, and it is okay. The group then collectively drafted a scope for the draft standard, which had previously not existed. The new document file name is *BSR_E1-54-201x_21-Nov-2014.pdf*.

The motion to offer the draft standard (now amended) was unanimously approved by a show of hands and voice vote.

6.8 BSR E1.55, Makeup Mirror Lighting

There was discussion on the comments received that deal with lights only on a top row, with no vertical sources to the sides of the makeup mirror. The group consensus is that top row only is not an appropriate or effective means of lighting the entire face for application of makeup. There was also discussion as to the shall/should statement regarding the max/min recommended lux. Document number Photo/2014-5005r3 was modified in accordance with the group's consensus.

Mike Wood moved to send the draft standard out for its first public review. The motion was seconded and approved by a unanimous show of hands and voice vote.

7 New business: rated hardware for luminaires and secondary suspension devices.

An email from Actors' Equity about this should be forthcoming. Recently barndoors and top hats have fallen near Equity members, making them complain to Actors' Equity outside business representatives. Shouldn't these things have safety cables, the representatives ask? What about c-clamp ratings? UL 1573 has no requirements for safety cables or c-clamps if they are after-market accessories, and, in any case, has nothing about how stage and studio luminaires should or shall be used. Is this a topic for us or for UL 1573's STP?

There was discussion as to the placement of a project such as this. The group consensus is that a joint-task-group consisting of EPWG and RWG members would be ideal. The project does not belong in this group.

8 Other business

8.1 Above & Beyond Awards

Michael Lay announced that the nomination site is open year round at tsp.plasa.org/AboveandBeyond.

8.2 Blue Light Rat Study

See *ehp-1307294_BlueLightRatStudy.pdf*

Karl Ruling addressed the group and began a discussion on the subject of retinal damage, and the possible tie in with the old CIE standard grossly underreporting lux levels at short wave-lengths. The group consensus is that the energy of narrow-band emitters should be what is measured, not the lux, but the group feels that the topic, by and large, is beyond the expertise of this group. The group does not want to deal with photo-biological hazards, being content to leave that subject area to other standards bodies with knowledge and skill sets better suited to deal with them..

9 Schedule for future meetings

The group consensus is that, due to the public review schedules, a January meeting is impractical. The next meeting shall be held in conjunction with USITT, in Cincinnati in 2015.

10 Adjournment

Karl Ruling moved to adjourn the meeting. The motion was seconded. Hearing no objections, Jerry Gorrell declared the meeting adjourned at 09:18.

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
Erin Grabe	PLASA NA	PLASA NA	exf	G
Charles H. Green	Charles H. Green	Charles H. Green	O	U
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	O	U
Mitch Hefter	Philips Lighting	Royal Philips	A	MP
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
Frank Kjær Jensen	Martin Professional ApS	Harman International Industries	O	MP
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

Name	Company	Representing	Voting Status	Int. Cat.
Larry Lieberman	Vision Quest Lighting	Vision Quest Lighting	O	CP
Rick Loudenburg	Barbizon Light (Denver)	Barbizon Companies	O	DR
Wendy Luedtke	Rosco Laboratories	Rosco Laboratories	P	MP
Doug MacDonald	Designlab Chicago	Designlab Chicago Inc.	O	DR
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
Karl G. Ruling	PLASA NA	PLASA NA	exf	G
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
Larry Schoeneman	DesignLab Chicago, Inc.	DesignLab Chicago, Inc.	P	DR
Ford Sellers	Chauvet Lighting	Chauvet Lighting	O	MP
Keith Sklar	Actors' Equity Association	Actors' Equity Association	O	G
Ben Sweet-Block	Philips Color Kinetics	Royal Philips	O	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 Key:

P = Principal voter, A = Alternate voter, I = Individual voter, O = Observer member, exf = ex officio

Interest Category Key:

CP = Custom-market producer, DE = Designer, DR = Dealer or rental company, G = General interest, MP = Mass-market producer, U = User