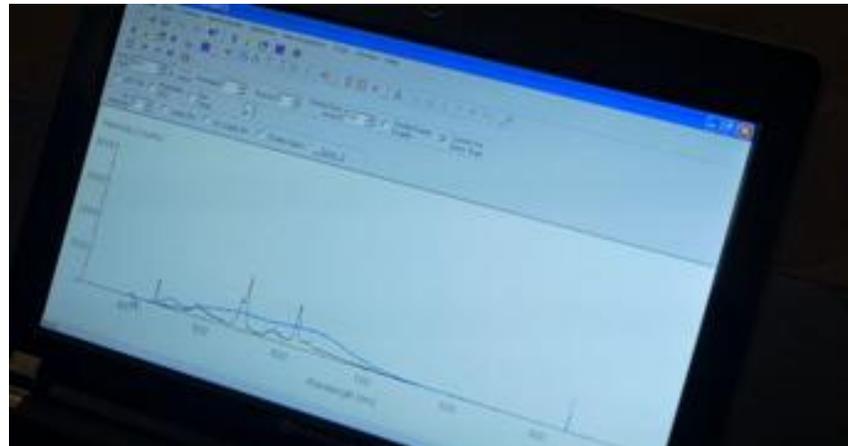
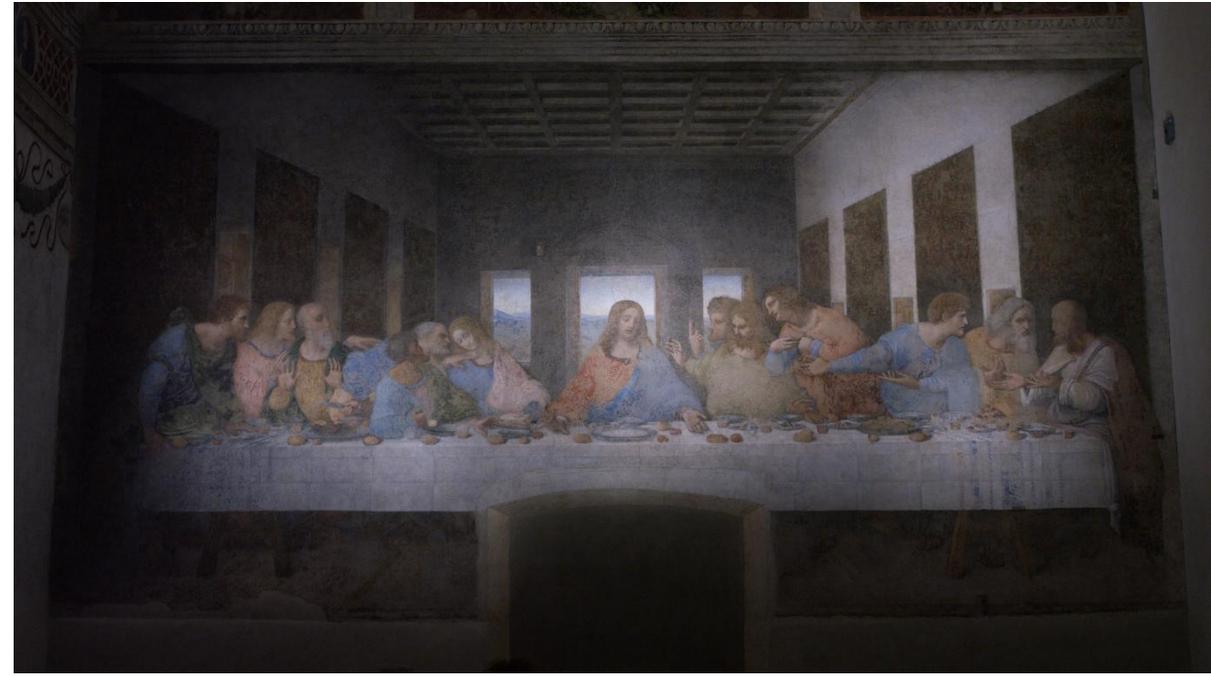
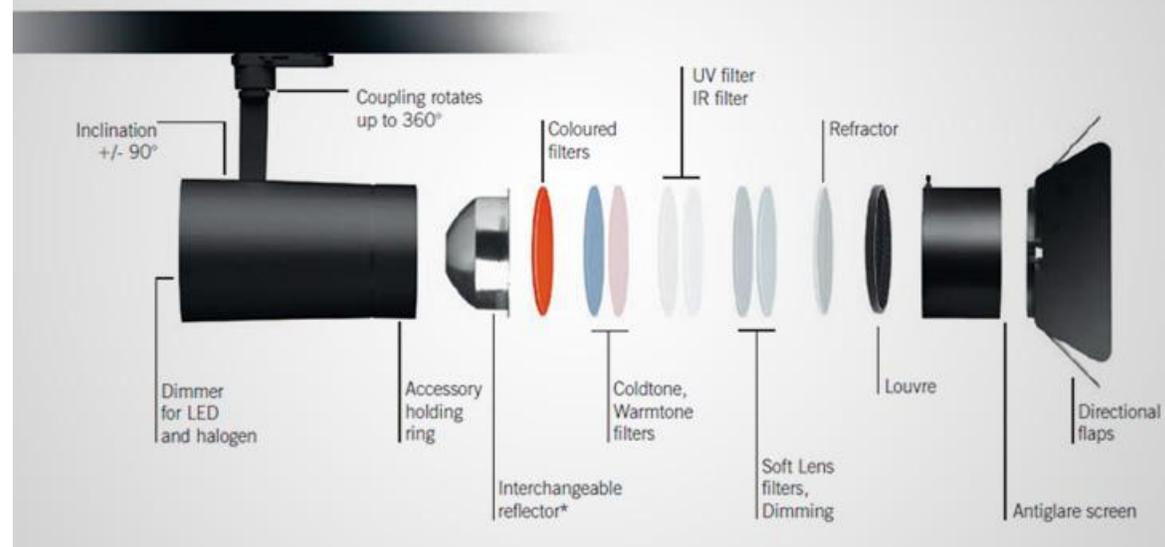
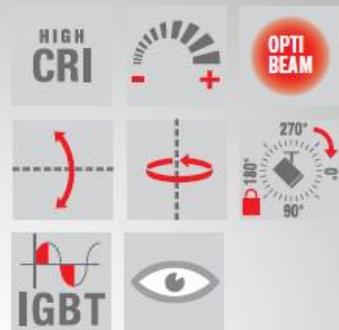


Old



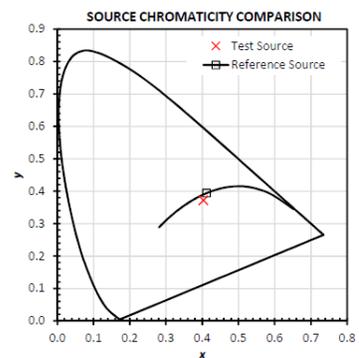
New



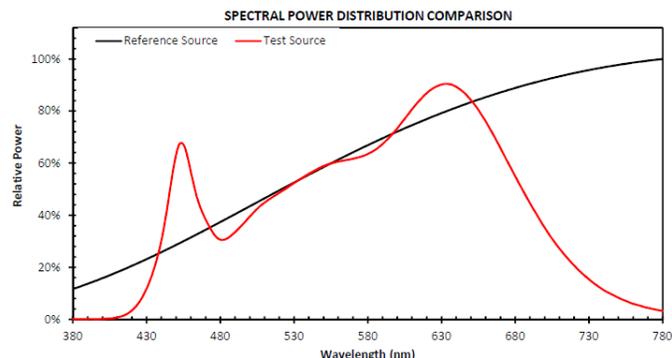


Summary Results							
Metric	Test	Reference	Notes	Metric	Test	Reference	Notes
R_f	94	100	IES TM-30-15 Fidelity Index	CCT	3384	3383	Correlated Color Temperature
R_g	104	100	IES TM-30-15 Gamut Index	D_{uv}	-0.0082	0.0000	Distance from the blackbody locus
CIE R_a	96	100	CIE Test Color Method General Index	x	0.4030	0.4120	CIE 1931 chromaticity coordinate
R_9	90	100	CIE Test Color Method Sample Nine Score	y	0.3713	0.3940	CIE 1931 chromaticity coordinate
LER	261	177	Luminous Efficacy of Radiation	u	0.2424	0.2387	CIE 1960 chromaticity coordinate
R_{fskin}	96	100	Average of CES15 and CES18 (skin)	v	0.3350	0.3424	CIE 1960 chromaticity coordinate
				u'	0.2424	0.2387	CIE 1976 chromaticity coordinate
				v'	0.5025	0.5136	CIE 1976 chromaticity coordinate

Source Properties



This chart plots the chromaticity of the test and reference sources in the CIE 1931 chromaticity diagram.



This chart displays the spectral power distributions for the test and reference source. Each SPD has been normalized so that the maximum values is 100%.

La nuova normativa europea **UNI CEN/TS16163** recepisce la *Harrison's Damage function* (CIE 157/2004) e consente una variazione della **dose annua di luce** in relazione al **Potenziale di Danno Relativo** della sorgente usata sull'opera.

Il **Potenziale di danno relativo** è il rapporto tra il potenziale di danno della sorgente usata opera e quello dell'illuminante standard A (2856 K) CIE (valore = 1)

Potenziale danno relativo COB 3400K = 0.87 significa un incremento della dose annua di luce del **13%**.

Aumento potenziale di visitatori/ore di esposizione

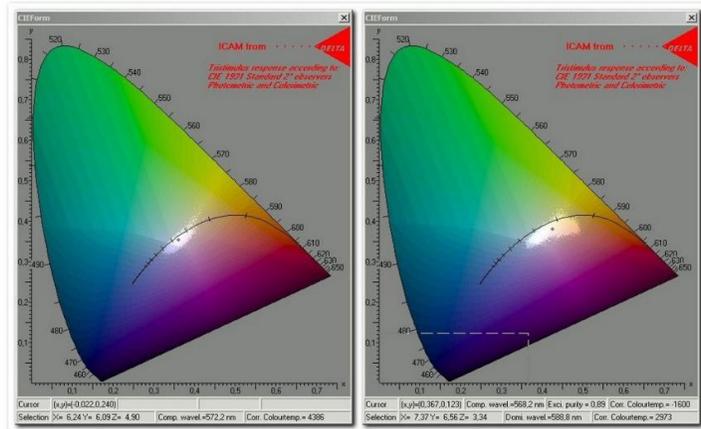
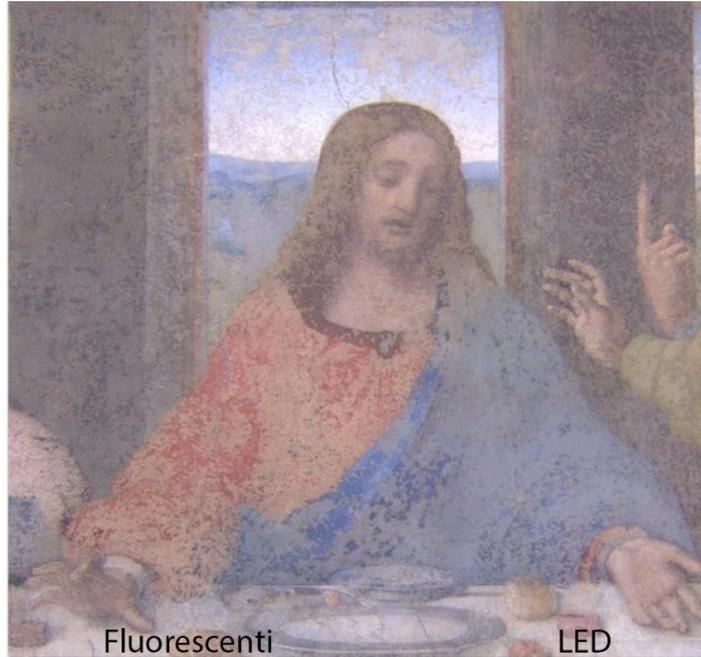
Allo stato attuale dei livelli di illuminamento rilevati sull'Ultima Cena il nuovo impianto permetterebbe **5 turni di visita in più al giorno, per complessive 45.000 visitatori l'anno.**



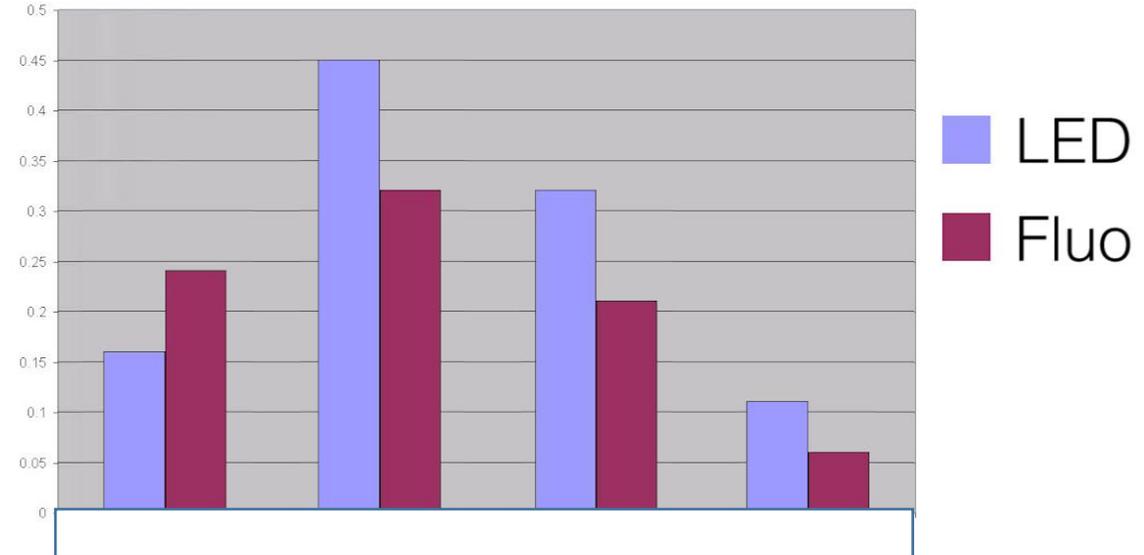
Energy saving

area	Old	New	%
totale	3300 w	490 w	-85
Ultima cena	345 w	47 w	-86

Estensione della fascia di colori percepiti (Gamut)



Saturazione cromatica

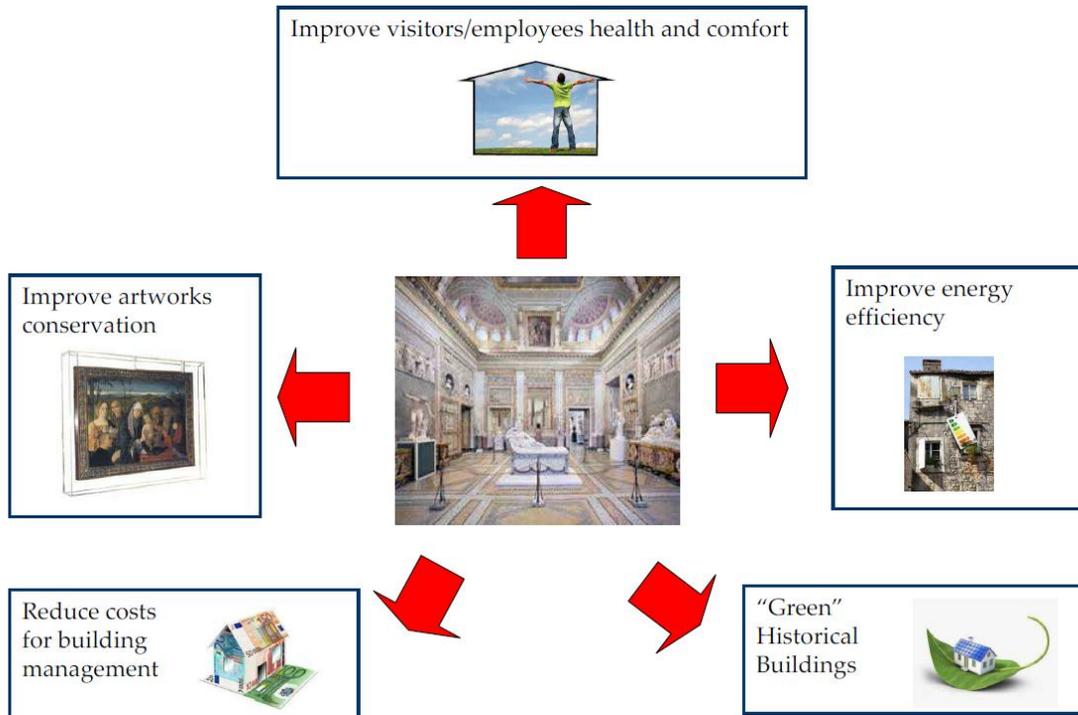


Main call title: Energy Efficiency - PPP EeB and SPIRE topics - **EE-03-2014**

Topic: *Energy strategies and solutions for deep renovation of historic buildings*

March 2014

Proposal : **aMUSEment** - *integrated Actions for MUSeum complexes Energy ManagemENT*



- iGuzzini Illuminazione Spa - IT
- Schneider Electric Spa - IT
- GDF SUEZ Energie Services - FR
- ISA - Intelligent Sensing Anywhere S.A. - PT
- Universitat Politècnica de Catalunya - ES
- Università Politecnica delle Marche - IT
- Fraunhofer Inst - DE
- Fomento de las Artes y del Diseño - ES
- Polo Museale della città di Roma - IT
- Château musée de Versailles - FR

ICT-29-2016: Photonics KET 2016

FTI Pilot-1-2016: Fast Track to Innovation Pilot

Energy

- **Smart cities and communities**
 - Smart Cities and Communities lighthouse projects

Inclusive, innovative and reflective societies

- **Understanding Europe**
 - Virtual museums and social platform on European digital heritage, memory, identity and cultural interaction
 - European cultural heritage, access and analysis for a richer interpretation of the past

together globally