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Comparison Chart of Open-Source Photo-Colorimetric Data Exchange Files

Description	Remarks	Units	Eulumdat [LDT]	IES LM-63 [IES]	UNI 11733-19 [XML]	IES TM-33-18 [XML]	OXL 2020 [OXL]
General Data							
Manufacturer's Name			√	√	√	√	√
Measurement report number			√	√	√	√	√
Luminaire description			√	√	√	√	√
Luminaire code			√	√	√	√	√
Measurement description			x	√	√	√	√
Measurement code			√	√	√	√	√
File Name (with extension)			√	√	√	√	x
Measurement date			√	√	√	√	√
Laboratory manager	Author of the document		√	x	√	√	√
Luminaire bounding-box dimensions		[mm]	√	x	√	√	√
Luminous area bounding-box dimensions		[mm]	√	√	√	√	√
Product Images	Up to four+two images		x	x	x	X	√
Management of luminaire 3D files			x	x	x	X	√
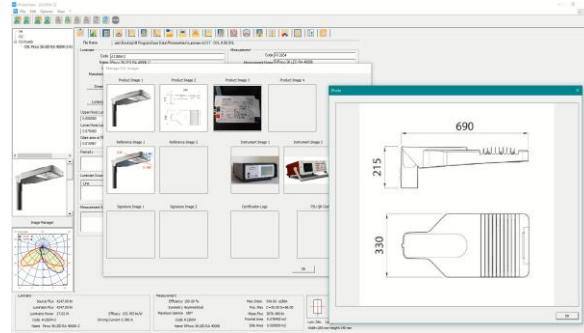
Laboratory Environmental Parameters

Laboratory Name			x	x	x	x	√
Laboratory Technician			x	x	x	x	√
Instruments List	Name, code, images, instrument manufacturer and type, quantities, calibration due date		x	x	x	x	√
Temperature		[°C]	x	x	x	x	√
Humidity		[%]	x	x	x	x	√
Air speed		[m/s]	x	x	x	x	√

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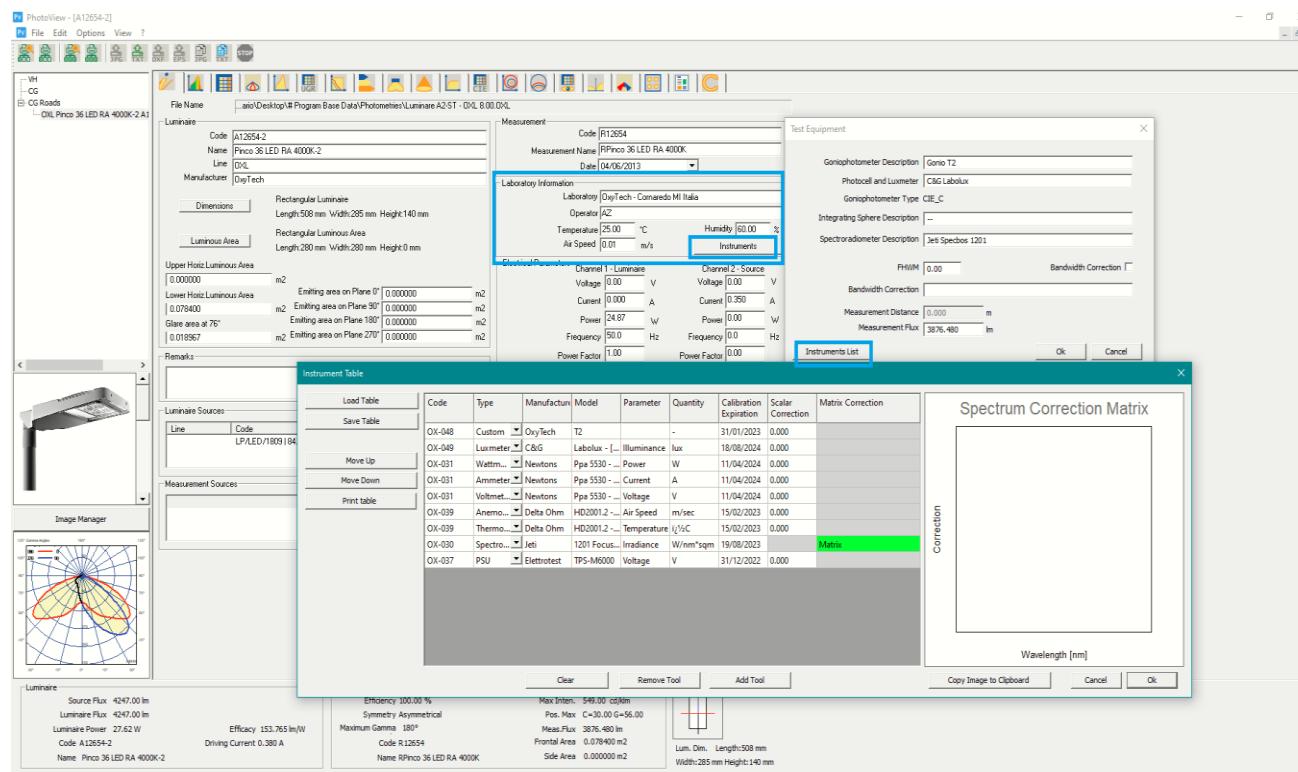
Luminaire Electrical Parameters

Total luminaire power (including driver)	Primary	[W]	√	√	√	√	√
Luminaire power supply voltage	Primary	[V]	x	x	x	x	√
Luminaire power supply current	Primary	[A]	x	x	x	x	√
Frequency	Primary	[Hz]	x	x	x	x	√
Power factor	Primary		x	x	x	x	√
Total source power	Secondary	[W]	x	x	x	x	√
Optical part supply voltage	Secondary	[V]	x	x	x	x	√
Supply current	Secondary	[A]	x	x	x	x	√
Frequency	Secondary	[Hz]	x	x	x	x	√
Power factor	Secondary		x	x	x	x	√
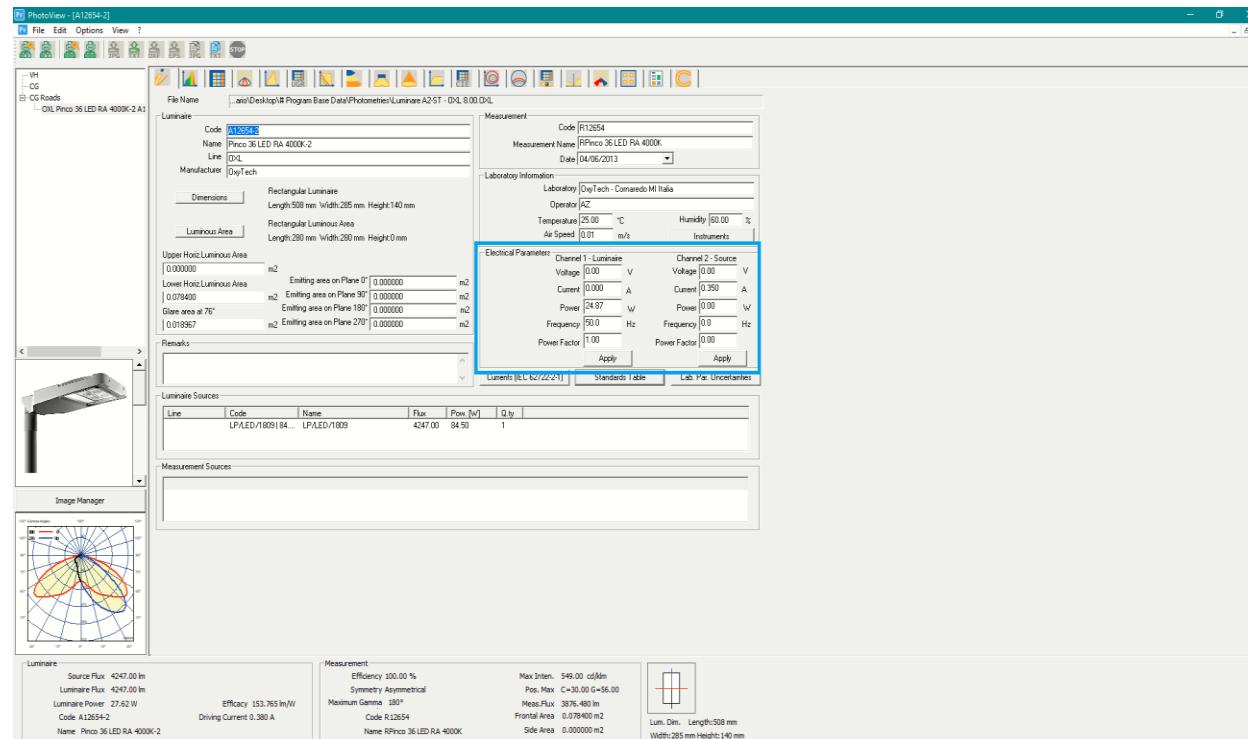
Photometric Parameters

Parameter	Code	Units					
Type of measurement system	C-γ		√	√	√	√	√
	V-H (CIE 43)		x	√	√	√	√
Source type indicator			√	√	√	√	√
Symmetry indicator			√	√	x	x	√
DFF (Downward Flux Fraction)			√	x	x	x	x
LORL (Light output ratio of luminaire)			x	x	x	x	x
Luminaire tilting angle during the measurement			√	√	√	√	√
Number of sources sets			√	√	√	√	√
Number of sources			√	√	√	√	√
Types of sources			√	√	√	√	√
Sources total Luminous flux		[lm]	√	√	√	√	√
Number of half-planes	C-		√	√	√	√	√
Number of angles	γ		√	√	√	√	√
Number of half-planes	V-		x	√	√	√	√
Number of angles	H		x	√	√	√	√
Intensity matrix	Relative	[cd/klm]	√	√	√	√	√
	Absolute	[cd]	x	√	√	√	√
Intensity matrix symmetry	Rotosymmetrical		√	√	x	x	√
	Double Symmetry		√	√	x	x	√
	No Symmetry		√	√	x	x	√
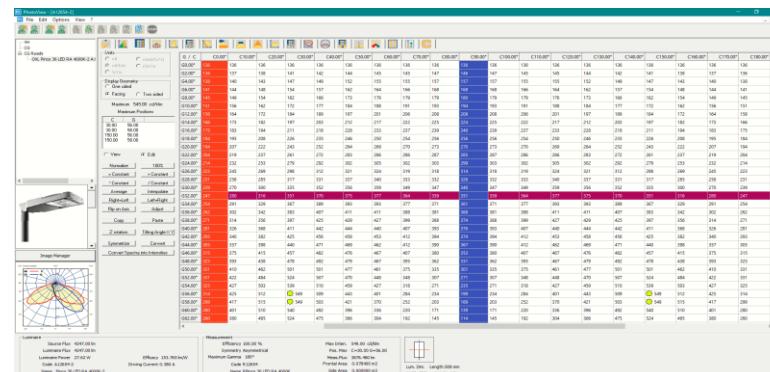
Colorimetric Parameters

Single Spectrum	From txt, csv, xlsx files		x	x	√	√	√
Integrated Spectrum			x	x	√	√	√
Multiple spectra from Goniospectrometry			x	x	√	√	√
Color Temperature (CCT)		[K]	√	x	√	√	√
Color Rendering Index (CRI)			√	x	√	√	√
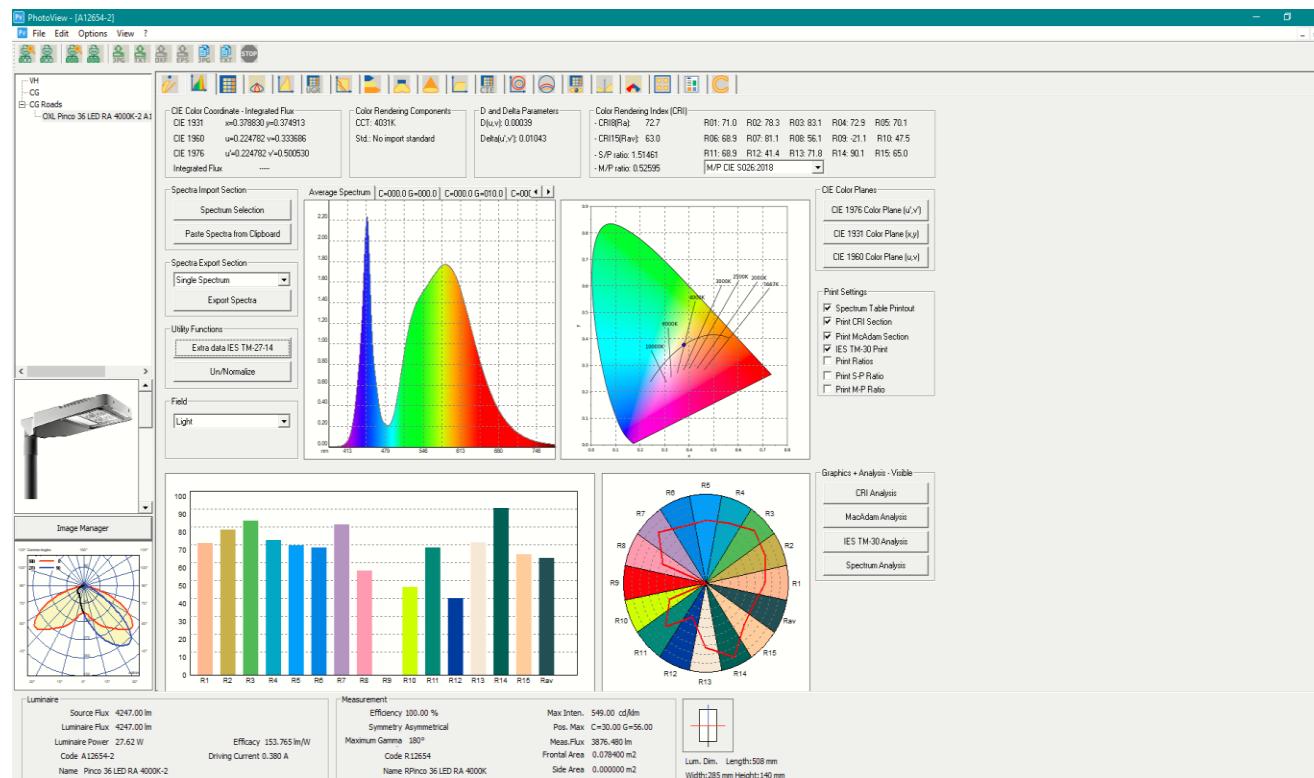
LED Driving Current Data

Flux-Power Chart f (Currents)			x	x	x	x	√
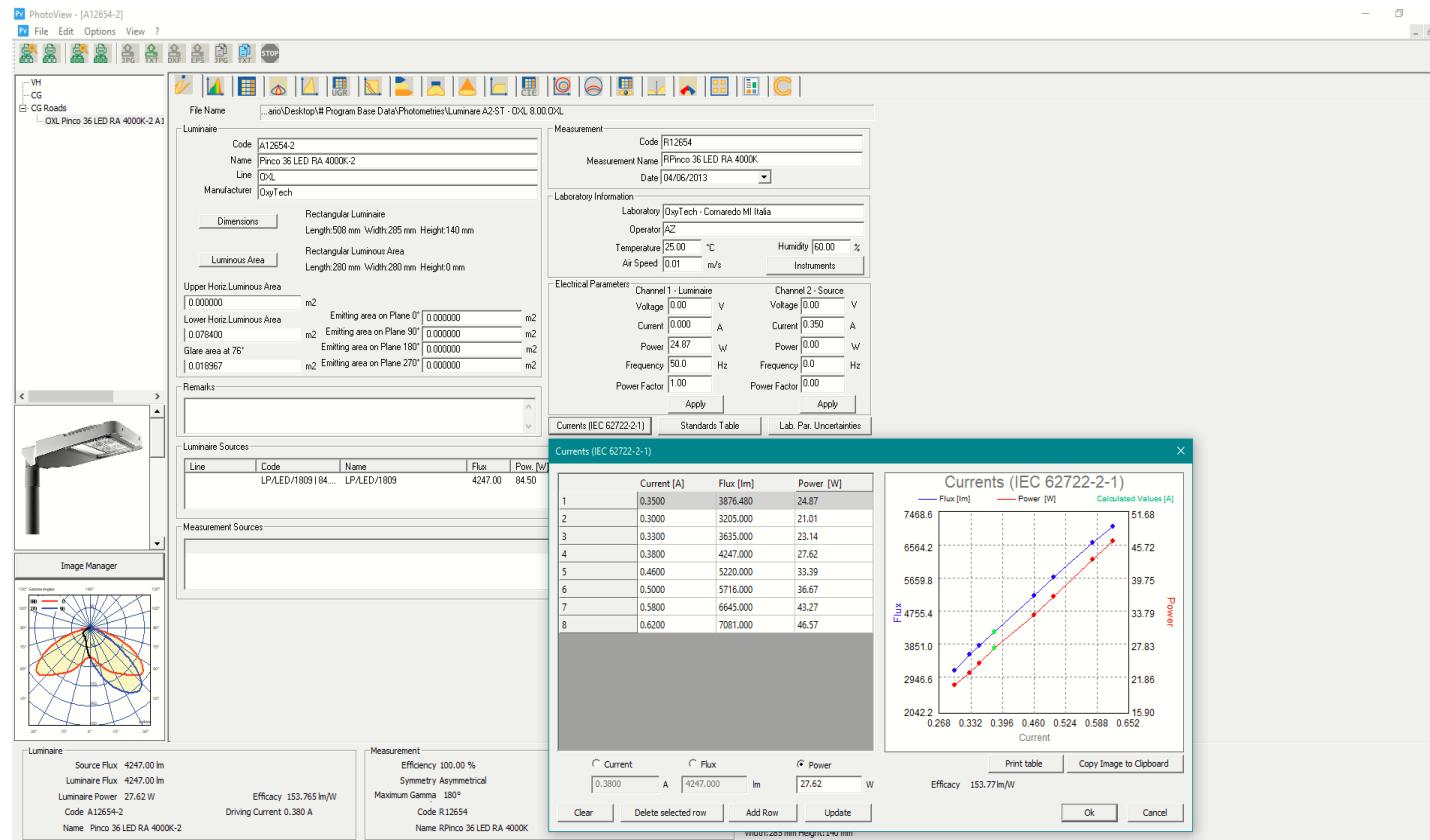
Technical Data Sheet (over 60 parameters)			x	x	x	x	√

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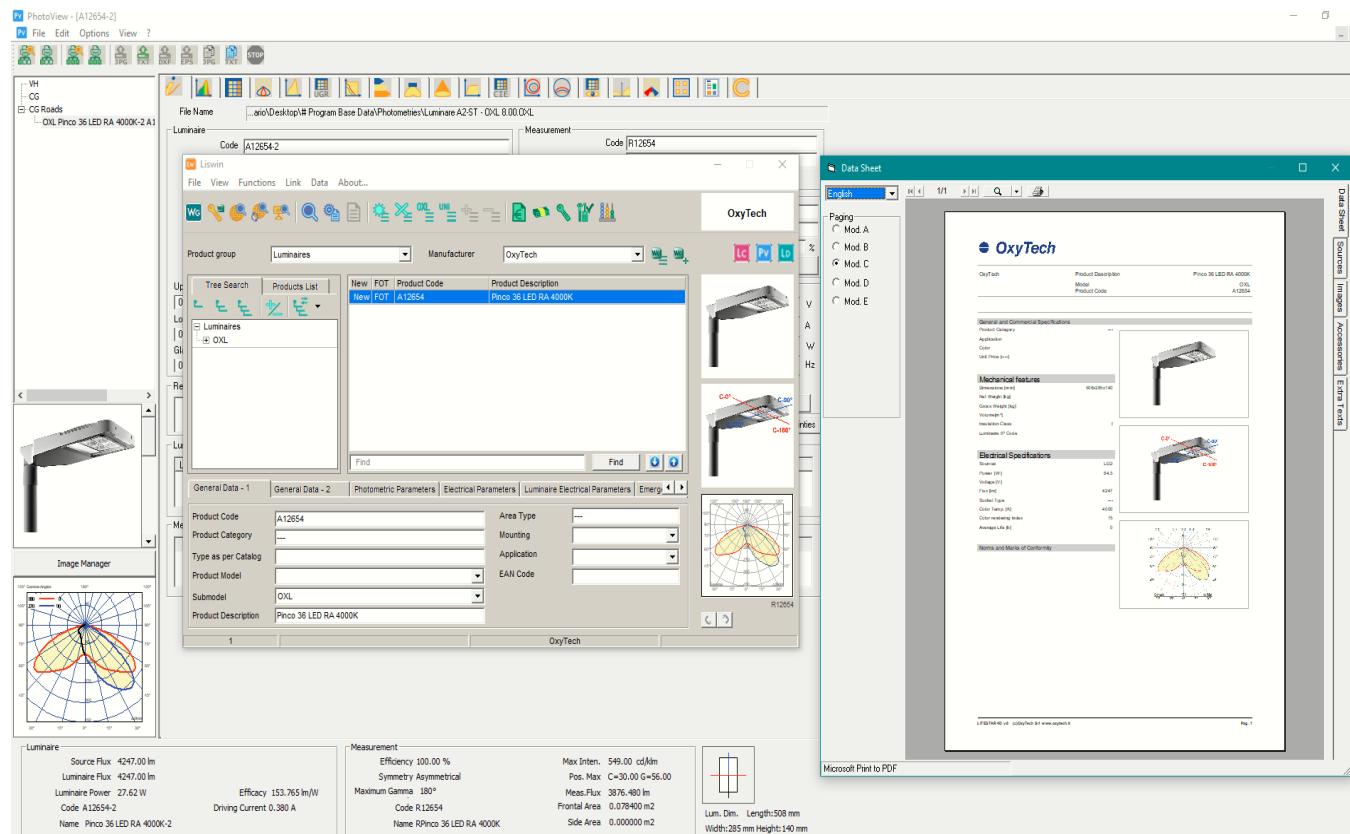
Accessory Files							
PDF File			x	x	x	x	√
Txt File			x	x	x	x	√
XLSX File			x	x	x	x	√
Wmf File			x	x	x	x	√
Doc File			x	x	x	x	√