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NVLAP Lab code:
200985-0

Project No.: 4786619410
Test Report No.: 4786619410.6-3
Issue Date: 2014/11/20

PHOTOMETRIC TEST REPORT

Customer Company & Address

Artemide SPA
Via Bergamo 18, 20010 - Pregnana Milanese (MI) - Italy

Manufacturer:	Artemide SPA
Model Number:	EMPATIA 36
Product Type:	CEILING/WALL MOUNTING LED LUMINAIRE
Product Description:	LED luminaire with integrated control gear and transparent glass diffuser.

LED Model:	CREE CXA2530
Power Supply Model:	Roal Strato RLSD035-12
Electrical Ratings:	
Input Voltage (V):	120
Input Current (A):	-
Input Power (W)	24
Input Frequency (Hz):	60
Photometric Measurement:	Absolute
Reference Standard:	IES LM-79-08
Sample number:	1981687
Total report pages:	11

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Prepared By
Giovanni Di Martino

Name & Signatory

Approved By
Walter Parmiani

Name & Signatory

TEST RESULTS SUMMARY

Test Method: Integrating Sphere
Photometric Measurement: Absolute
Test Date: 2014/11/18

Environmental Conditions:

		Unit
Ambient Temperature:	24,5	°C
Relative Humidity:	40,2	%

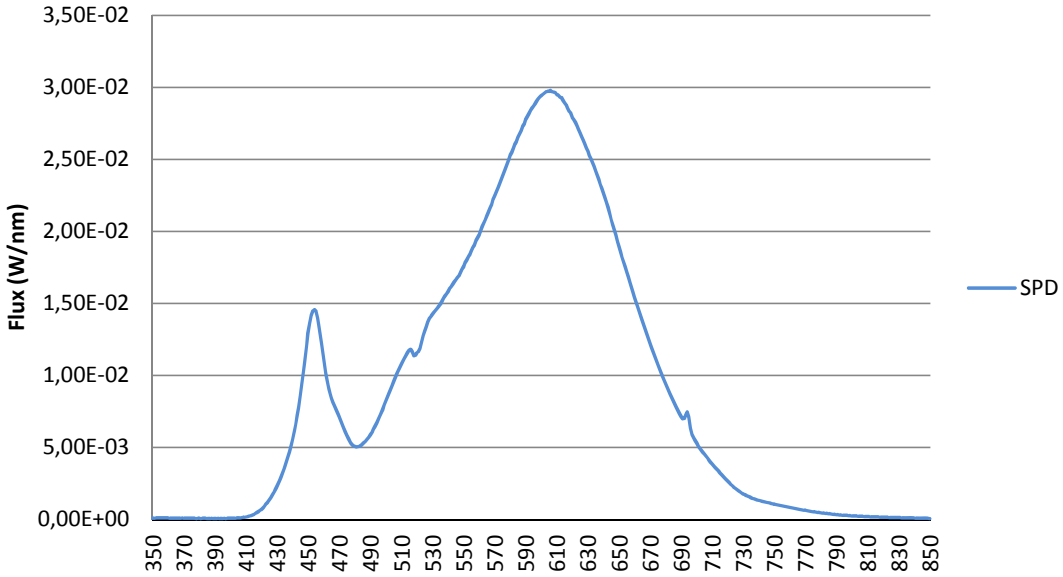
Electrical Conditions:

		Unit
Input Voltage:	120	V
Input Current:	0,208	A
Input Power:	24,082	W
Input Frequency:	60	Hz
THD V:	0,2	%
Power Factor:	0,96	

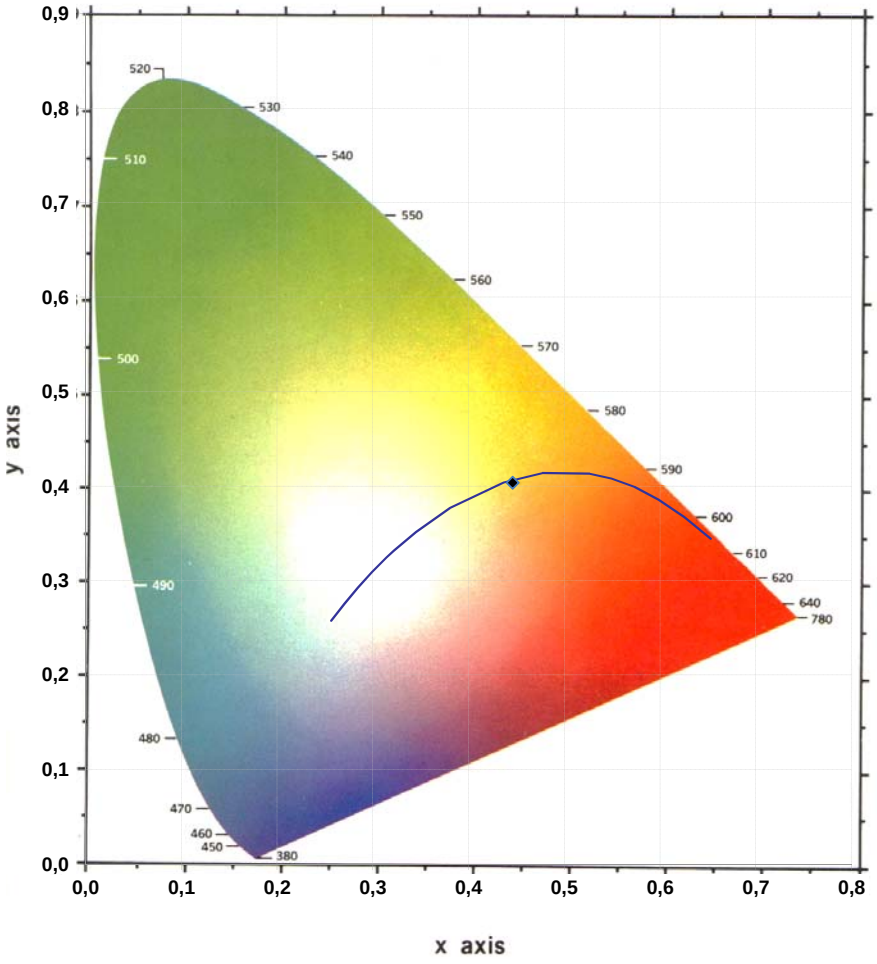
Photometric results:

		Unit
Chrom x	0,4459	
Chrom y	0,4037	
Chrom u	0,2565	
Chrom v	0,3484	
Duv	0,0013	
Chrom u'	0,2565	
Chrom v'	0,5226	
Peak	605,5	nm
Dominant	583,9	nm
CCT	2850	K
CRI	82,71	
R9	12	
Pre-burning time:	1,00	hrs
Stabilization time:	30	min
Test configuration:	4pi	

Spectral Power Distribution



Chromaticity Diagram CIE 1931



TEST RESULTS SUMMARY

Test Method: Goniophotometer
Photometric Measurement: Absolute
Test Date: 2014/11/18

Environmental Conditions:

		Unit
Ambient Temperature:	24,8	°C
Relative Humidity:	39,6	%

Electrical Conditions:

		Unit
Input Voltage:	120,08	V
Input Current:	0,206	A
Input Power:	23,89	W
Input Frequency:	60	Hz
THD V:	0,2	%

Photometric results:

		Unit
Total Luminous Flux:	1312,27	Lm
System Efficacy:	54,93	Lm/W
Pre-burning time:	1,00	hrs
Stabilization time:	30	min
Test distance:	8,62	m

Dimensions:

	L	W	H	Unit
Sample:	Ø 360	-	400	mm
Luminous Area:	Ø 360	-	340	mm

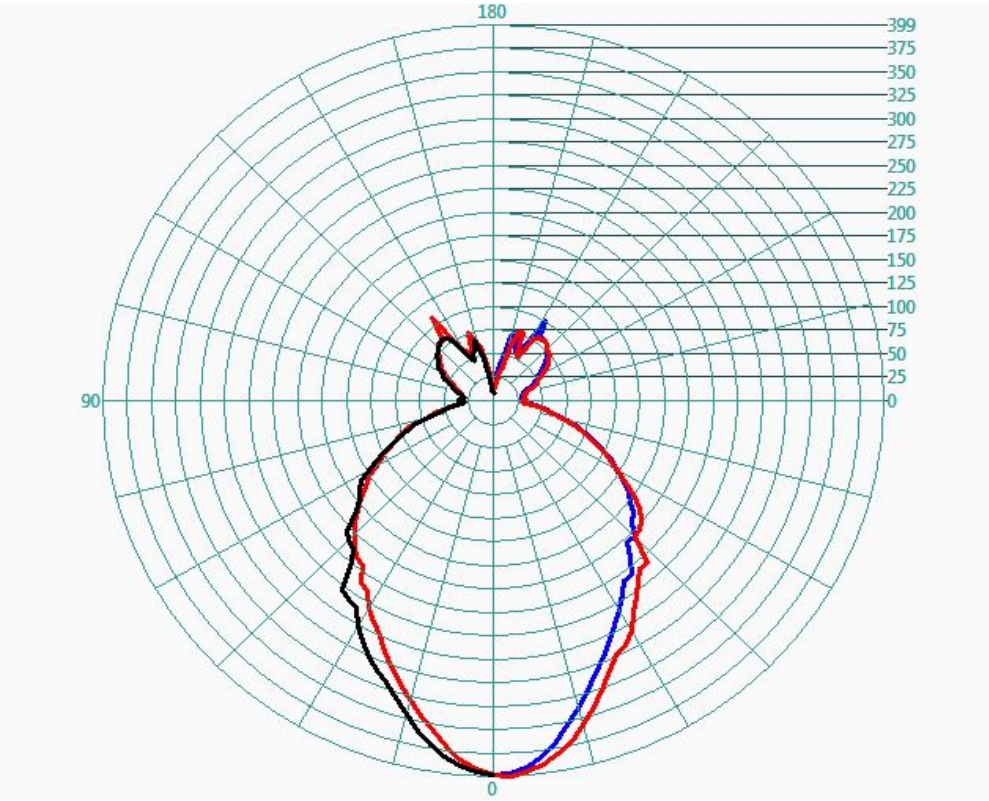
Picture of the tested sample:

TEST EQUIPMENT

Local ID	Description	Model	Last Cal	Next Cal
BURVS0063	Goniophotometer system	LSI 6440T	2014/4/22	By evidence
BURVS0077	Digital power meter	Yokogawa WT210	2014/10/27	2015/10/28
BURVS0067	OMEGA MDSi8	OMEGA MDSi8	2014/9/1	2015/9/28
AT528	Ambient temp recorder	OMEGA Iserver	2014/4/7	2015/4/28
BURVS0053	Integrating sphere	Labsphere CSTM-LMS	2014/11/7	By evidence
BURVS0058	Spectroradiometer	Labsphere CDS-1100	2014/11/7	By evidence
BURVS0062	AC PSU	Chroma 61603	Reference	Reference
BURVS0059	Digital power meter	Yokogawa WT210	2014/10/27	2015/10/28
BURVS0054	Thermometer	OMEGA MDSi8	2014/9/1	2015/9/28
AT525	Ambient temp recorder	OMEGA Iserver	2014/4/7	2015/4/28

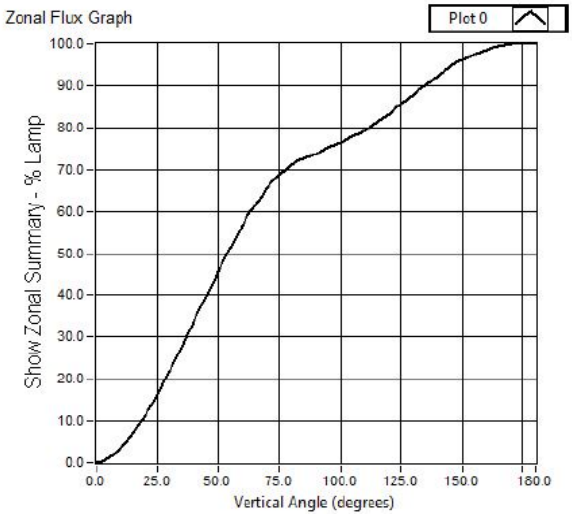
Notes
The results of this test extends to the suspended and to the 230 V version of this product.

POLAR PLOT (cd)

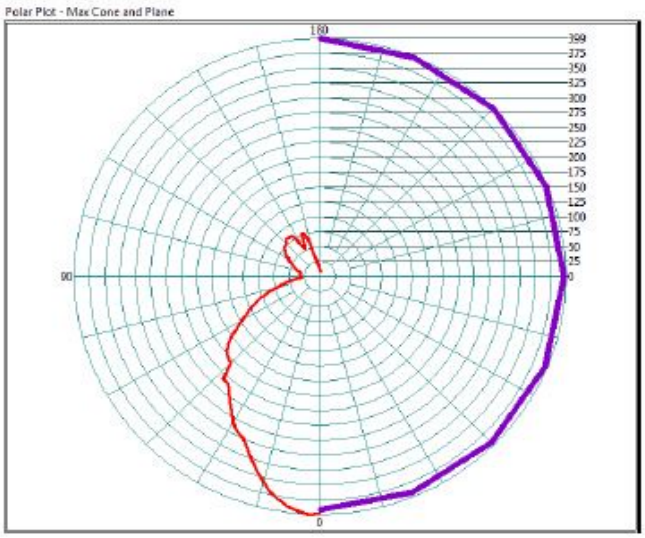


ZONAL LUMEN SUMMARY

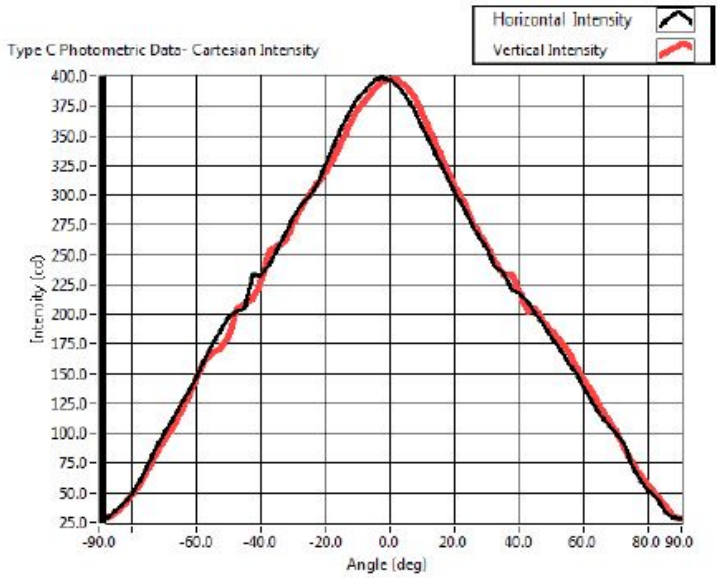
	Summary Zonal Lumens	Zonal Lumens - % Lamp	Zonal Lumens - % Fixture
0 to 30	266.22	20.29	20.29
0 to 40	419.61	31.98	31.98
0 to 60	727.21	55.42	55.42
0 to 90	964.21	73.48	73.48
40 to 90	544.60	41.50	41.50
60 to 90	237.00	18.06	18.06
90 to 180	348.06	26.52	26.52
0 to 180	1312.27	100.00	100.00



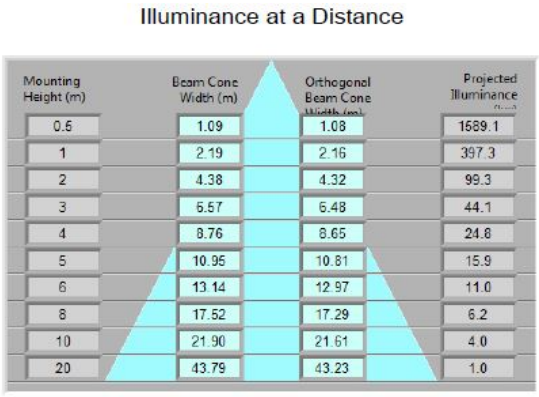
MAX CONE AND PLANE



CARTESIAN DIAGRAM



CONE DIAGRAM



Target % of Peak Intensity	Beam Angle to % Intensity Value (degrees)	Beam Angle to % Intensity Value (degrees) [-]
50.00	95.02	94.41

ALLOWED VARIANTS

Product listed below are considered allowed variants since their different construction does not affect lighting performance.

Model Name	Ratings	Notes
EMPATIA 36	120 V - 60 Hz - 24 W	Suspended luminaire
EMPATIA 36	48 V - 25 W	Floor luminaire