





Project No: 10015722
Report No: 10015722-3
Issued Date: 2013-JUN-03
Revision:

Verification Services Test Report

Customer Company & Address
ARTEMIDE S.P.A. Via Bergamo 18 20010 Pregnana Milanese (MI)

Manufacturer:	Artemide S.P.A.
Country of Origin:	Italy
Country of Export:	N/A
Product Category:	CHILONE PARETE
Product Description:	LED luminaire
Model Number(s):	CHILONE PARETE
Electrical Ratings:	120Vac 60Hz
Test Sample(s) Received Date:	2013-MAY-28
Test Period:	2013-MAY-31 to 2013-MAY-31
The Sample(s) is(are) tested in accordance with the following:	
IES LM-79-08	

Prepared By	Approved By
Giovanni Di Martino 	Walter Parmiani 
Name & Signatory	Name & Signatory

This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.



UL International Italia S.r.l.
Via XXV Aprile 3/B
20875 Burago di Molgora (MB) Italy
NVLAP Lab Code: 200985-0



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Statement of Results

Test Flow	Test Method	Sample ID	Test Result
1.	Goniophotometer	012833-S001	Evaluated by Customer
2.	Integrating Sphere	012833-S001	Evaluated by Customer

Measurement Uncertainty

N/A

Deviation from Test Method (if any)

N/A

Remarks (if any)

N/A



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Test No. 1: Goniophotometer

Sample ID / Test Round Number

012833-S001 / 1

Environmental Conditions

Ambient Temperature
24.4 °C

Test Equipment

Local ID	Description	Model	Last cal	Next cal
BURVS0074	Goniophotometer system	LSI 6440T	08/apr/2013	By evidence
BURVS0078	AC PSU	ELGAR CW 1251	Reference only	Reference only
BURVS0077	Digital power meter	Yokogawa WT210	12/jul/2012	12/jul/2013
S541	CHRONOMETER	QUANTUM	22/may/2013	28/may/2014
BURVS0079	THERMOMETER	OMEGA MDSi8	16/jul/2012	16/jul/2013
BURVS0061	OMNIDIRECTIONAL CALIBRATION LAMP	STS STD-EHD 12C050	25/jun/2012	25/jun/2015

Test Condition(s)

Input Voltage	Input Current	Input Power	Power Factor
119.97 V	0.13 A	15.52 W	0.98

Test Results

Result Name	Result
Test Date	2013-MAY-31 12:30:00 PM
Current THD	0.1 %
Luminous Flux	639.0 lm
Luminous Efficacy	41.2 lm/W
Luminous Opening Length	7.0 in.
Luminous Opening Width	2.0 "
Luminous Opening Height	0.0 "



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Test No. 2: Integrating Sphere

Sample ID / Test Round Number

012833-S001 / 1

Environmental Conditions

Ambient Temperature
25 °C

Test Equipment

Local ID	Description	Model	Last cal	Next cal
BURVS0053	INTEGRATING SPHERE	LABSPHERE 2m INTEGRATING SPHERE	08/apr/2013	By evidence
BURVS0058	SPECTRORADIOMETER	LABSPHERE CDS-1100	08/apr/2013	By evidence
BURVS0062	AC PSU	CHROMA 61603	Reference only	Reference only
BURVS0059	DIGITAL POWER METER	YOKOGAWA WT210	13/jul/2012	13/jul/2013
S541	DIGITAL CHRONOMETER	QUANTUM	22/may/2013	28/may/2014
BURVS0054	THERMOMETER	OMEGA MDSi8	16/jul/2012	16/jul/2013
BURVS0040	75W OMNIDIRECTIONAL CALIBRATION LAMP	EYE LIGHTING SCL1400 (JDV28V75W)	24/jan/2012	24/jan/2015

Test Condition(s)

Base Orientation	Input Voltage	Input Current	Input Power	Power Factor
Base Down	120.03 V	0.131 A	15.51 W	0.98



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Test Results

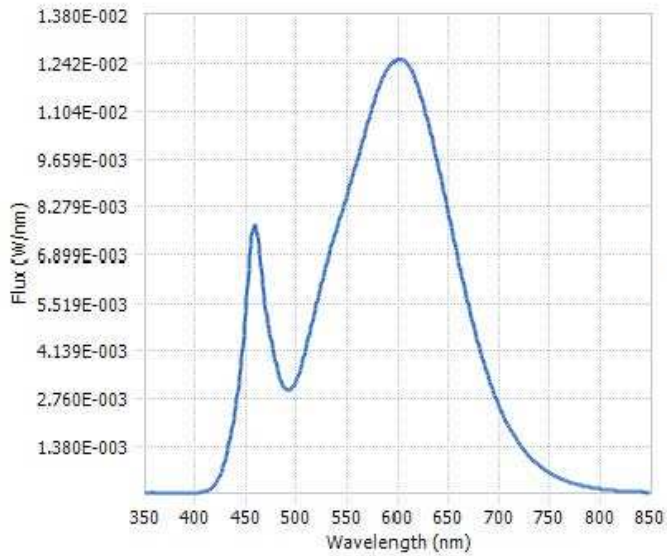
Result Name	Result
Test Time Point	2013-MAY-31 03:20:00 PM Hrs
Current THD	0.1 %
CCT	3095 K
CRI (Ra)	81.58
CRI (R9)	12.5
Duv	0.0026
x	0.4273
y	0.3954
u'	0.2481
v'	0.5165



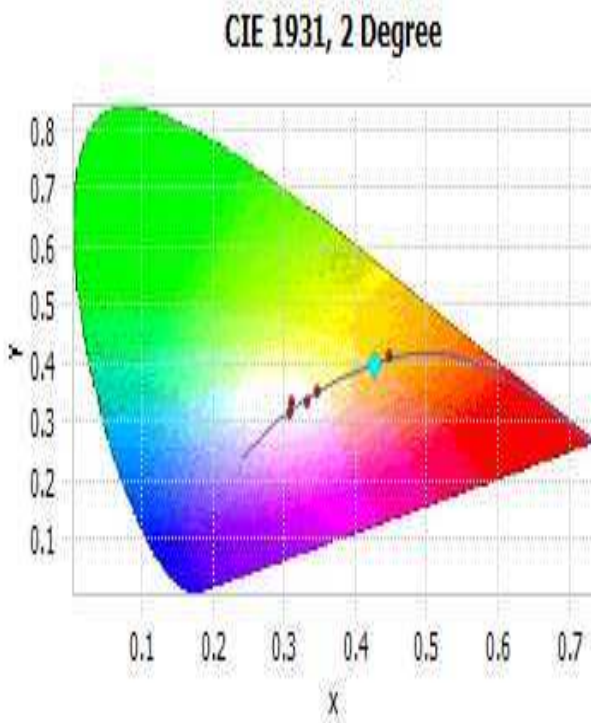
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Spectral power distribution



Chromaticity diagram

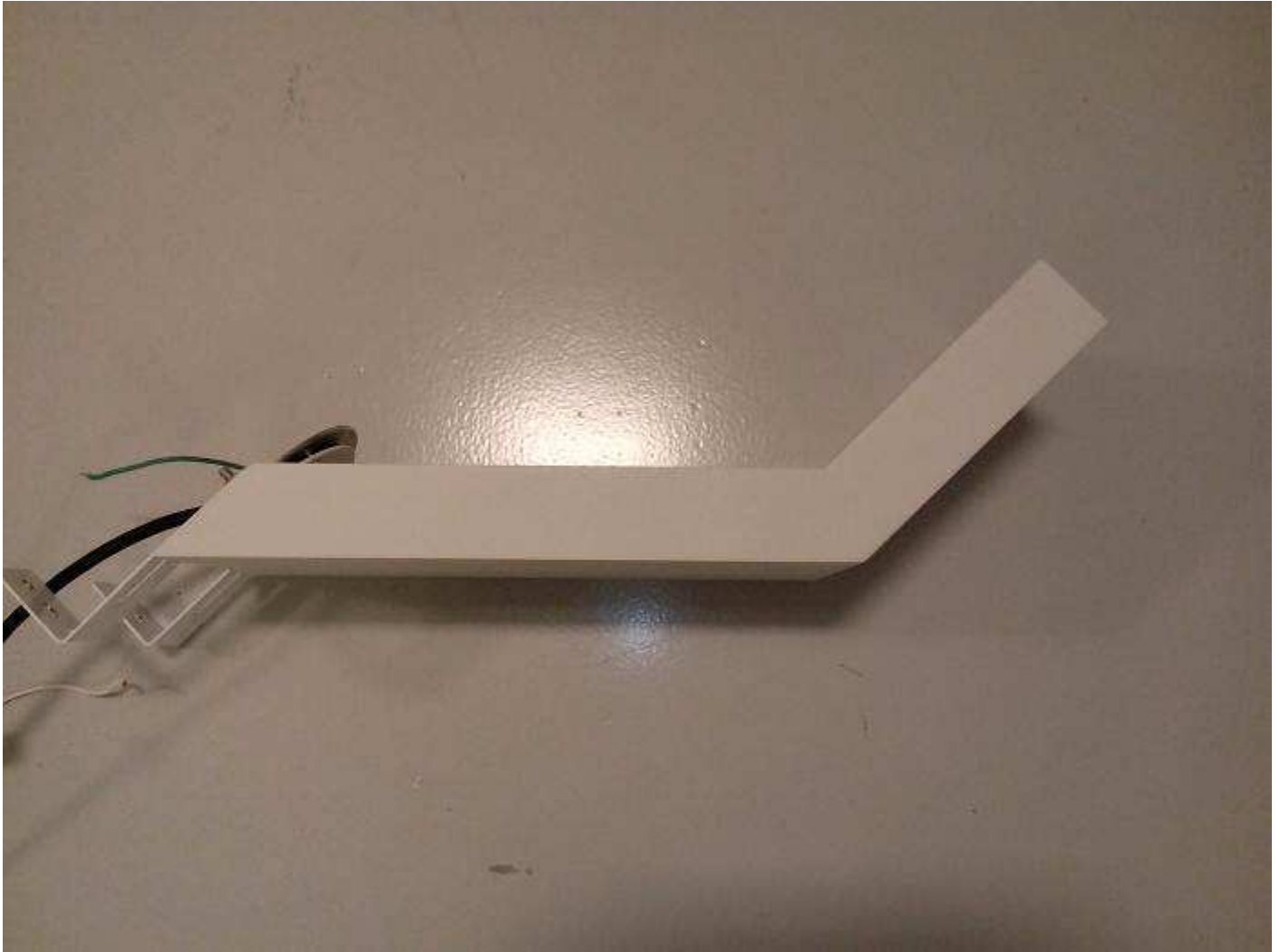




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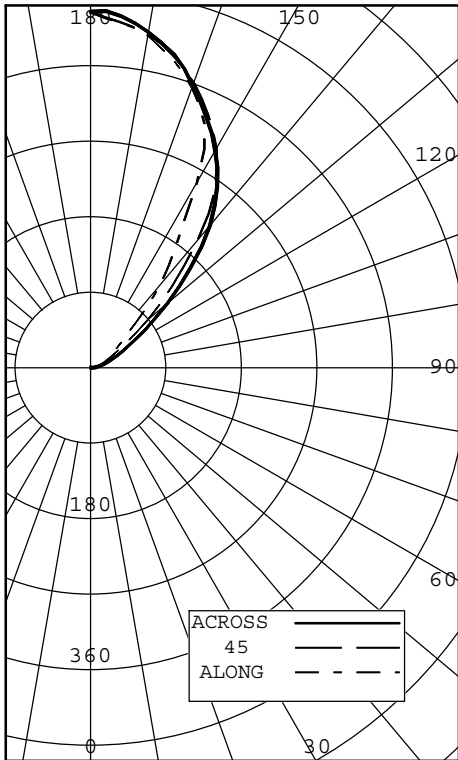
Photo of Sample(s)



ARTEMIDE SPA, CAT# CHILONE PARETE
 CHILONE PARETE
 LED, CAT# LED. LUMINAIRE OUTPUT = 639 LMS.
 OPERATING AT 120VAC 15.52W

INTENSITY (CANDLEPOWER) SUMMARY OUTPUT

ANGLE	ALONG	22.5	45	67.5	ACROSS	LUMENS
180	424	424	424	424	424	
175	413	415	413	421	421	40
170	401	403	403	405	406	
165	381	382	384	385	387	108
160	355	356	362	360	358	
155	322	328	333	331	329	150
150	254	277	301	302	298	
145	179	200	259	269	264	148
140	130	145	199	228	223	
135	78	97	138	175	170	103
130	49	56	89	121	120	
125	34	38	52	77	80	52
120	26	28	31	47	53	
115	20	21	21	30	36	25
110	16	15	15	20	24	
105	10	10	9	12	14	11
100	5	5	5	6	7	
95	1	1	1	1	1	2
90	0	0	0	0	0	



ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
180-150	298	46.57
180-140	445	69.69
180-120	600	93.94
180-90	639	100.00
140-90	194	30.31
120-90	39	6.06
0-90	0	0.00
0-180	639	100.00

EFFICACY (LUMENS PER WATT): 41.2

*** THIS IS AN ABSOLUTE TEST ***

CERTIFIED BY:

DATE:
MAY 31, 2013

PREPARED FOR:

ARTEMIDE
SPA

TESTED IN ACCORDANCE WITH IES PROCEDURES.

UL INTERNATIONAL ITALIA SRL
 VIA XXV APRILE 3/B
 BURAGO DI MOLGORA, ITALY, ITALY 20875

TEST REPORT No. 10015722-3

ARTEMIDE SPA, CAT# CHILONE PARETE
 CHILONE PARETE
 LED, CAT# LED. LUMINAIRE OUTPUT = 639 LMS.
 OPERATING AT 120VAC 15.52W

INTENSITY (CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
180.0	424	424	424	424	424	424	
177.5	418	421	418	425	426	421	
175.0	413	415	413	421	421	417	40
172.5	409	411	409	414	414	411	
170.0	401	403	403	405	406	404	
167.5	390	393	395	395	396	394	
165.0	381	382	384	385	387	384	108
162.5	368	371	373	373	374	372	
160.0	355	356	362	360	358	358	
157.5	340	342	348	345	343	344	
155.0	322	328	333	331	329	329	150
152.5	294	307	317	317	314	311	
150.0	254	277	301	302	298	289	
147.5	210	240	281	285	282	263	
145.0	179	200	259	269	264	237	148
142.5	154	171	233	249	244	213	
140.0	130	145	199	228	223	187	
137.5	104	122	166	203	197	160	
135.0	78	97	138	175	170	133	103
132.5	60	73	113	147	144	109	
130.0	49	56	89	121	120	88	
127.5	41	45	69	97	99	70	
125.0	34	38	52	77	80	56	52
122.5	30	33	40	60	64	45	
120.0	26	28	31	47	53	37	
117.5	23	24	26	38	43	30	
115.0	20	21	21	30	36	25	25
112.5	18	18	18	24	29	21	
110.0	16	15	15	20	24	17	
107.5	13	12	12	15	19	14	
105.0	10	10	9	12	14	11	11
102.5	8	7	7	8	10	8	
100.0	5	5	5	6	7	5	
97.5	3	3	3	3	4	3	
95.0	1	1	1	1	1	1	2
92.5	0	0	0	0	0	0	
90.0	0	0	0	0	0	0	

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CHILONE PARETE
LED, CAT# LED. LUMINAIRE OUTPUT = 639 LMS.
OPERATING AT 120VAC 15.52W

COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																									
0	1.091	.091	.091	.09	0.950	.950	.950	.95	0.810	.810	.810	.81	0.560	.560	.56	0.320	.320	.32	0.100	.100	.10	0.00			
1	0.990	.950	.900	.87	0.870	.830	.790	.76	0.740	.710	.680	.64	0.480	.470	.45	0.280	.270	.26	0.090	.090	.09	0.00			
2	0.900	.820	.750	.70	0.790	.720	.660	.61	0.670	.620	.570	.53	0.420	.390	.37	0.240	.230	.22	0.080	.070	.07	0.00			
3	0.820	.720	.640	.58	0.720	.630	.570	.51	0.610	.540	.490	.44	0.370	.340	.31	0.220	.200	.18	0.070	.060	.06	0.00			
4	0.750	.630	.550	.49	0.650	.560	.480	.43	0.560	.480	.420	.37	0.330	.290	.26	0.190	.170	.16	0.060	.060	.05	0.00			
5	0.690	.540	.470	.41	0.600	.480	.420	.36	0.510	.420	.360	.32	0.290	.250	.22	0.170	.150	.13	0.050	.050	.04	0.00			
6	0.630	.500	.410	.35	0.550	.440	.360	.31	0.470	.380	.310	.27	0.260	.220	.19	0.150	.130	.11	0.050	.040	.04	0.00			
7	0.580	.450	.360	.30	0.500	.390	.320	.27	0.430	.340	.280	.23	0.230	.190	.17	0.140	.110	.10	0.040	.040	.03	0.00			
8	0.530	.400	.320	.26	0.460	.350	.280	.23	0.400	.300	.240	.20	0.210	.170	.14	0.120	.100	.09	0.040	.030	.03	0.00			
9	0.490	.360	.280	.23	0.430	.320	.250	.20	0.370	.270	.220	.18	0.190	.150	.12	0.110	.090	.08	0.040	.030	.03	0.00			
10	0.460	.330	.250	.20	0.400	.290	.220	.18	0.340	.250	.190	.16	0.170	.140	.11	0.100	.080	.07	0.030	.030	.02	0.00			

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LUMINAIRE INPUT WATTS 15.5

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
LUMINOUS OPENING OF LUMINAIRE.

UL INTERNATIONAL ITALIA SRL
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CONE OF LIGHT

MOUNTING HEIGHT ABOVE WORK PLANE (FT)	INITIAL FC AT NADIR -FCN (FC)	.1*FCN (FC)	10% LIGHTED DIAMETER (FT)	.5*FCN (FC)	50% LIGHTED DIAMETER (FT)
5	17.0	1.7	10.3	8.5	5.3
7	8.7	0.9	14.4	4.3	7.4
9	5.2	0.5	18.5	2.6	9.5
11	3.5	0.4	22.7	1.8	11.7
13	2.5	0.3	26.8	1.3	13.8
15	1.9	0.2	30.9	0.9	15.9
17	1.5	0.1	35.0	0.7	18.0
19	1.2	0.1	39.2	0.6	20.1

10% CONE ANGLE: 91.7 DEGREES
 50% CONE ANGLE: 55.9 DEGREES