





Project No: 10015722
Report No: 10015722-1
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:	CUNEO
Product Description:	LED luminaire
Model Number(s):	CUNEO
Electrical Ratings:	120Vac 60Hz
Test Sample(s) Received Date:	2013-MAY-28
Test Period:	2013-MAY-28 to 2013-MAY-29
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	012835-S001	Evaluated by Customer
2.	Integrating Sphere	012835-S001	Evaluated by Customer

Measurement Uncertainty

N/A

Deviation from Test Method (if any)

N/A

Remarks (if any)

N/A



Verification Services Test Report

Test No. 1: Goniophotometer

Sample ID / Test Round Number

012835-S001 / 1

Environmental Conditions

Ambient Temperature
25.4 °C

Test Equipment

Local ID	Description	Model	Last cal	Next cal
BURVS0063	Goniophotometer system	LSI 6440T	08/apr/2013	By evidence
BURVS0066	AC PSU	ELGAR CW 1251	Reference only	Reference only
BURVS0065	Digital power meter	Yokogawa WT210	13/jul/2012	13/jul/2013
S541	CHRONOMETER	QUANTUM	22/may/2013	28/may/2014
BURVS0067	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
120.00 V	0.28 A	16.12 W	0.95

Test Results

Result Name	Result
Test Date	2013-MAY-29 10:30:00 AM
Current THD	0.1 %
Luminous Flux	713.0 lm
Luminous Efficacy	44.2 lm/W
Luminous Opening Length	6.7 in.
Luminous Opening Width	2.4 "
Luminous Opening Height	0.0 "



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Test No. 2: Integrating Sphere

Sample ID / Test Round Number

012835-S001 / 1

Environmental Conditions

Ambient Temperature
25.3 °C

Test Equipment

Local ID	Description	Model	Last cal	Next cal
BURVS0033	INTEGRATING SPHERE	LABSPHERE 1.65m INTEGRATING SPHERE	08/apr/2013	By evidence
BURVS0038	SPECTRORADIOMETER	LABSPHERE CDS-1100	08/apr/2013	By evidence
BURVS0042	AC PSU	CHROMA 61603	Reference only	Reference only
BURVS0039	DIGITAL POWER METER	YOKOGAWA WT210	13/jul/2012	13/jul/2013
S541	DIGITAL CHRONOMETER	QUANTUM	22/may/2013	28/may/2014
BURVS0034	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	120.05 V	0.278 A	16.08 W	0.95



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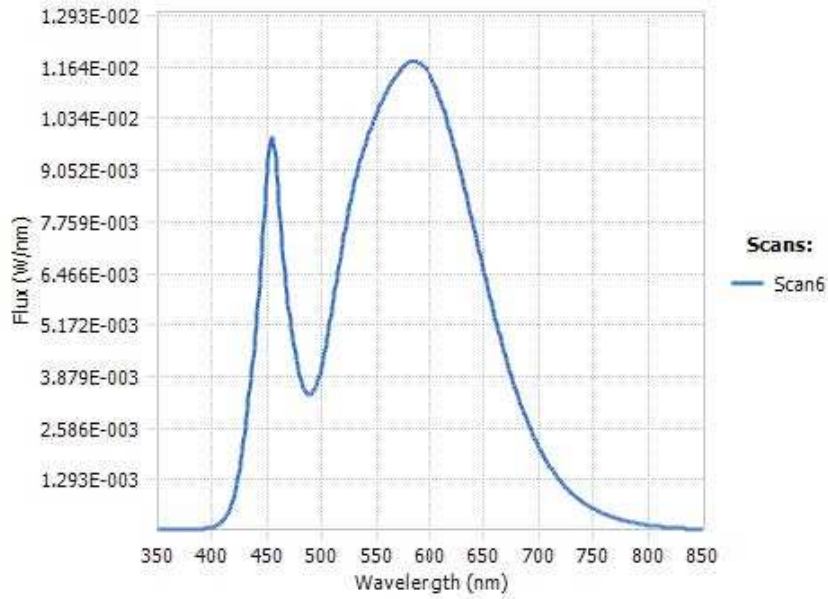
Test Results

Result Name	Result
Test Time Point	2013-MAY-28 04:00:00 PM Hrs
Current THD	0.1 %
CCT	3930 K
CRI (Ra)	78.67
CRI (R9)	0.9
Duv	0.0037
x	0.3863
y	0.3887
u'	0.2242
v'	0.5076

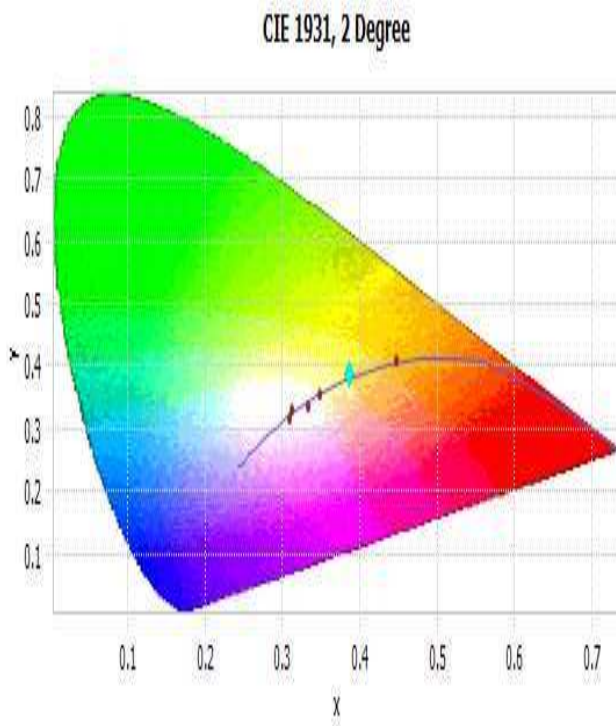


Verification Services Test Report

Spectral power distribution



Chromaticity diagram





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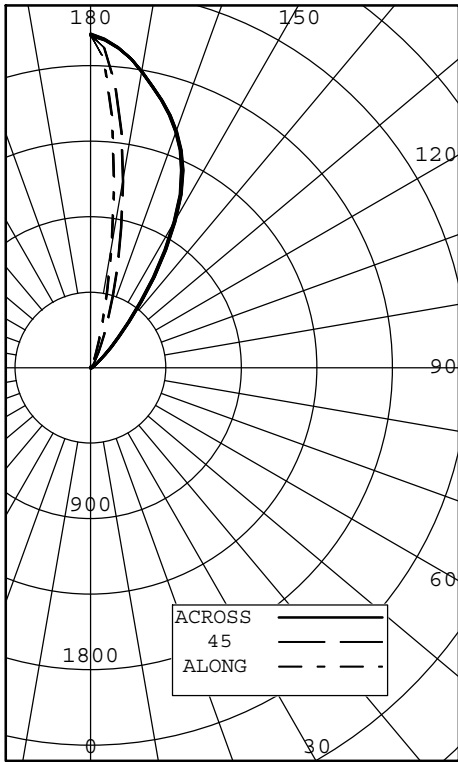
Photo of Sample(s)



ARTEMIDE SPA, CAT# CUNEO
 CUNEO
 LED, CAT# LED. LUMINAIRE OUTPUT = 713 LMS.
 OPERATING AT 120VAC 60Hz 16W

INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
180	1984	1984	1984	1984	1984	
175	1497	1543	1698	1863	1914	147
170	728	830	1127	1579	1790	
165	287	349	628	1250	1651	223
160	110	143	313	930	1497	
155	50	65	154	652	1299	177
150	28	36	75	413	1008	
145	21	22	45	236	660	101
140	15	18	25	122	360	
135	12	12	20	64	176	39
130	10	10	11	34	83	
125	7	9	12	22	43	15
120	7	6	6	13	26	
115	5	7	6	9	14	7
110	2	2	4	6	12	
105	2	2	1	4	4	3
100	1	1	2	2	4	
95	0	1	0	1	0	0
90	0	0	0	0	0	



ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
180-150	547	76.71
180-140	648	90.94
180-120	702	98.45
180-90	713	100.00
140-90	65	9.06
120-90	11	1.55
0-90	0	0.00
0-180	713	100.00

EFFICACY (LUMENS PER WATT): 44.3

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 6.700 INS
 WIDTH: 2.360 INS

CERTIFIED BY:

DATE:
 MAY 29, 2013

PREPARED FOR:
 ARTEMIDE SPA
 ARTEMIDE SPA

TESTED IN ACCORDANCE WITH IES PROCEDURES.

UL International Italia Srl
 Via XXV Aprile, 3/B
 Burago di Molgora, Italy 20875

TEST REPORT No. 10015722-1

ARTEMIDE SPA,CAT# CUNEO
 CUNEO
 LED,CAT# LED. LUMINAIRE OUTPUT = 713 LMS.
 OPERATING AT 120VAC 60Hz 16W

INTENSITY (CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
180.0	1984	1984	1984	1984	1984	1984	
177.5	1842	1862	1911	1954	1958	1907	
175.0	1497	1543	1698	1863	1914	1702	147
172.5	1087	1170	1420	1733	1858	1449	
170.0	728	830	1127	1579	1790	1199	
167.5	465	548	855	1417	1718	978	
165.0	287	349	628	1250	1651	799	223
162.5	175	220	449	1087	1580	658	
160.0	110	143	313	930	1497	547	
157.5	72	94	217	784	1406	458	
155.0	50	65	154	652	1299	386	177
152.5	37	47	109	530	1166	322	
150.0	28	36	75	413	1008	261	
147.5	24	27	56	314	834	207	
145.0	21	22	45	236	660	161	101
142.5	17	21	33	171	499	120	
140.0	15	18	25	122	360	88	
137.5	13	13	21	87	254	64	
135.0	12	12	20	64	176	48	39
132.5	10	13	15	47	120	35	
130.0	10	10	11	34	83	25	
127.5	11	8	12	26	60	20	
125.0	7	9	12	22	43	17	15
122.5	7	8	8	16	31	13	
120.0	7	6	6	13	26	10	
117.5	6	6	8	12	20	10	
115.0	5	7	6	9	14	8	7
112.5	4	3	3	7	12	5	
110.0	2	2	4	6	12	5	
107.5	3	4	5	5	8	5	
105.0	2	2	1	4	4	3	3
102.5	1	1	0	2	5	1	
100.0	1	1	2	2	4	2	
97.5	1	0	0	1	1	0	
95.0	0	1	0	1	0	0	0
92.5	0	0	0	0	0	0	
90.0	0	0	0	0	0	0	

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OPERATING AT 120VAC 60Hz 16W

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	1.0	0.91	0.91	0.91	0.9	0.95	0.95	0.95	0.95	0.81	0.81	0.81	0.81	0.56	0.56	0.56	0.32	0.32	0.32	0.10	0.10	0.10	0.00		
1	0.99	0.95	0.90	0.87	0.87	0.83	0.79	0.76	0.74	0.71	0.68	0.64	0.48	0.47	0.45	0.28	0.27	0.26	0.09	0.09	0.09	0.00			
2	0.90	0.82	0.75	0.70	0.79	0.72	0.66	0.61	0.67	0.62	0.57	0.53	0.42	0.39	0.37	0.24	0.23	0.22	0.08	0.07	0.07	0.00			
3	0.82	0.72	0.64	0.58	0.72	0.63	0.57	0.51	0.61	0.54	0.49	0.44	0.37	0.34	0.31	0.22	0.20	0.18	0.07	0.06	0.06	0.00			
4	0.75	0.63	0.55	0.49	0.65	0.56	0.48	0.43	0.56	0.48	0.42	0.37	0.33	0.29	0.26	0.19	0.17	0.16	0.06	0.06	0.05	0.00			
5	0.69	0.54	0.47	0.41	0.60	0.48	0.42	0.36	0.51	0.42	0.36	0.32	0.29	0.25	0.22	0.17	0.15	0.13	0.05	0.05	0.04	0.00			
6	0.63	0.50	0.41	0.35	0.55	0.44	0.36	0.31	0.47	0.38	0.31	0.27	0.26	0.22	0.19	0.15	0.13	0.11	0.05	0.04	0.04	0.00			
7	0.58	0.45	0.36	0.30	0.50	0.39	0.32	0.27	0.43	0.34	0.28	0.23	0.23	0.19	0.17	0.14	0.11	0.10	0.04	0.04	0.03	0.00			
8	0.53	0.40	0.32	0.26	0.46	0.35	0.28	0.23	0.40	0.30	0.24	0.20	0.21	0.17	0.14	0.12	0.10	0.09	0.04	0.03	0.03	0.00			
9	0.49	0.36	0.28	0.23	0.43	0.32	0.25	0.20	0.37	0.27	0.22	0.18	0.19	0.15	0.12	0.11	0.09	0.08	0.04	0.03	0.03	0.00			
10	0.46	0.33	0.25	0.20	0.40	0.29	0.22	0.18	0.34	0.25	0.19	0.16	0.17	0.14	0.11	0.10	0.08	0.07	0.03	0.03	0.02	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 16.1

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.

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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)
1	1984.0	198.4	1.1	992.0	0.4
2	496.0	49.6	2.2	248.0	0.8
3	220.4	22.0	3.3	110.2	1.2
4	124.0	12.4	4.4	62.0	1.6
5	79.4	7.9	5.5	39.7	2.1
6	55.1	5.5	6.6	27.6	2.5
7	40.5	4.0	7.7	20.2	2.9
8	31.0	3.1	8.8	15.5	3.3

10% CONE ANGLE: 57.4 DEGREES
 50% CONE ANGLE: 23.3 DEGREES