





Project No: 10147372  
 Report No: 10147372-1  
 Issued Date: 2013-DEC-17  
 Revision:

## Verification Services Test Report

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

<b>Manufacturer:</b>	Artemide S.P.A.
<b>Country of Origin:</b>	Italy
<b>Country of Export:</b>	N/A
<b>Product Category:</b>	Mesmeri
<b>Product Description:</b>	Wall-mounted LED luminaire with opal plastic diffuser and uplight emission
<b>Model Number(s):</b>	Mesmeri
<b>LED model:</b>	CREE CXA 2530 3000 K
<b>Power supply:</b>	ROAL Mod: STRATO RSLD035-12
<b>Electrical Ratings:</b>	120 V 60 Hz
<b>Test Sample(s) Received Date:</b>	2013-DEC-06
<b>Test Period:</b>	2013-DEC-11 to 2013-DEC-12
<b>The Sample(s) is(are) tested in accordance with the following:</b>	
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.**





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### Statement of Results

Test Flow	Test Method	Sample ID	Test Result
1.	Goniophotometer	023182-S001	Evaluated by Customer
2.	Integrating Sphere	023182-S001	Evaluated by Customer

### Measurement Uncertainty

N/A

### Deviation from Test Method (if any)

N/A

### Remarks (if any)

This report extends to the 230 V 50 Hz version of this product also.



## Verification Services Test Report

### Test No. 1: Goniophotometer

**Sample ID / Test Round Number**

023182-S001 / 1

**Environmental Conditions**

Ambient Temperature
24.2 °C

**Test Equipment**

Local ID	Description	Model	Last cal	Next cal
BURVS0074	Goniophotometer system	LSI 6440T	09/dec/2013	By evidence
BURVS0078	AC PSU	ELGAR CW 1251	Reference only	Reference only
BURVS0077	Digital power meter	Yokogawa WT210	16/jul/2013	28/jul/2014
BURVS0079	THERMOMETER	OMEGA MDSi8	19/aug/2013	28/aug/2014
BURVS0119	OMNIDIRECTIONAL CALIBRATION LAMP	STS STD-EHD 12C050	25/jun/2012	25/jun/2015

**Test Condition(s)**

Input Voltage	Input Current	Input Power	Power Factor
120.02 V	0.24 A	28.37 W	0.96

**Test Results**

Result Name	Result
Test Date	2013-DEC-11 02:30:00 PM
Luminous Flux	2589.0 lm
Luminous Efficacy	91.3 lm/W
Luminous Opening Length	5.9 in.
Luminous Opening Width	1.6 "
Luminous Opening Height	0.0 "



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## Verification Services Test Report

### Test No. 2: Integrating Sphere

#### Sample ID / Test Round Number

023182-S001 / 1

#### Environmental Conditions

Ambient Temperature
24.3 °C

#### Test Equipment

Local ID	Description	Model	Last cal	Next cal
BURVS0053	INTEGRATING SPHERE	LABSPHERE 2m INTEGRATING SPHERE	13/nov/2013	By evidence
BURVS0058	SPECTRORADIOMETER	LABSPHERE CDS-1100	13/nov/2013	By evidence
BURVS0062	AC PSU	CHROMA 61603	Reference only	Reference only
BURVS0059	DIGITAL POWER METER	YOKOGAWA WT210	23/jul/2013	28/jul/2014
BURVS0054	THERMOMETER	OMEGA MDSi8	19/aug/2013	28/aug/2014
BURVS0060	75W OMNIDIRECTIONAL CALIBRATION LAMP	EYE LIGHTING SCL1400 (JDV28V75W)	11/apr/2012	11/apr/2015

#### Test Condition(s)

Base Orientation	Input Voltage	Input Current	Input Power	Power Factor
Base Up	120.00 V	0.244 A	28.30 W	0.96



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## Verification Services Test Report

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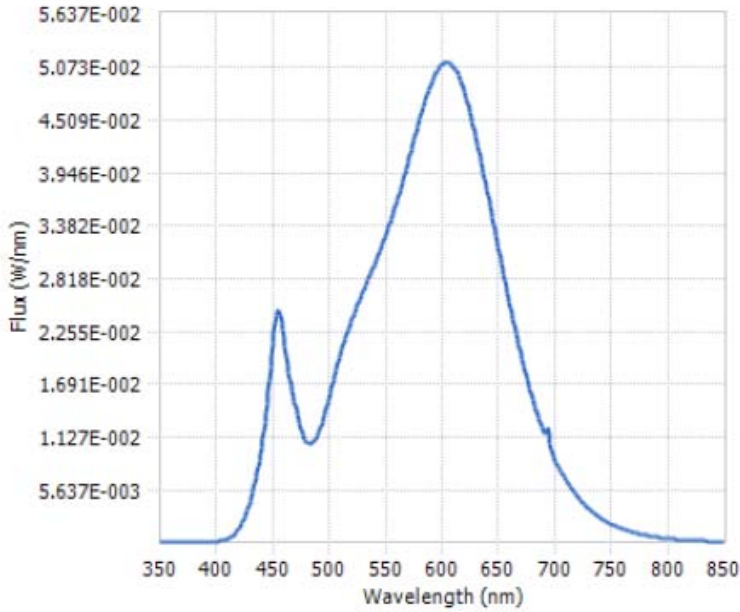
### Test Results

Result Name	Result
Test Time Point	2013-DEC-11 11:00:00 AM Hrs
CCT	3016 K
CRI (Ra)	82.72
CRI (R9)	10.4
Duv	0.0009
x	0.4370
y	0.4066
u'	0.2496
v'	0.5224



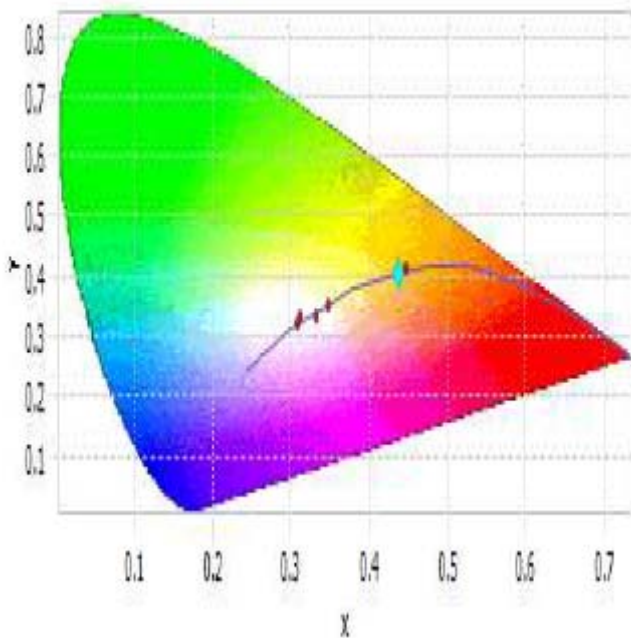
# Verification Services Test Report

## Spectral power distribution



## Chromaticity diagram

CIE 1931, 2 Degree





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## Verification Services Test Report

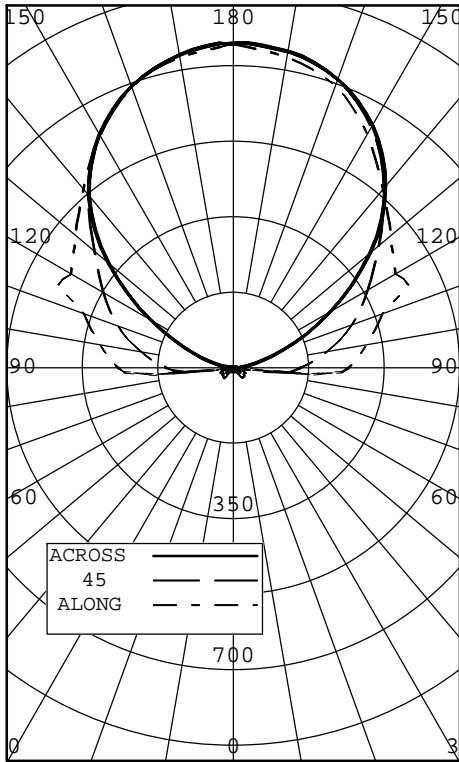
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### Photo of Sample(s)

Sample



ARTEMIDE, CAT# MESMERI  
 MESMERI  
 LED, CAT# LED. LUMINAIRE OUTPUT = 2589 LMS  
 OPERATING AT 120 V 60 Hz 28.37 W



ANGLE	INTENSITY (CANDLEPOWER) SUMMARY					OUTPUT LUMENS
	ALONG	BEAM SIDE			ACROSS	
		67.5	45	22.5		
0	7	7	7	7	7	
5	5	6	7	8	8	0
15	3	4	6	8	9	1
25	5	3	6	8	9	1
35	1	2	7	9	9	2
45	1	27	33	28	18	9
55	2	22	31	35	17	11
65	3	23	31	31	13	10
75	7	10	10	23	7	8
85	183	211	130	12	4	52
90	268	240	157	43	3	
95	292	266	187	82	16	94
105	341	323	258	151	75	124
115	450	386	327	235	188	155
125	454	442	397	350	336	177
135	507	506	491	483	487	191
145	580	591	597	597	603	185
155	662	675	679	681	684	156
165	715	725	728	731	732	102
175	739	745	748	750	750	36
180	751	751	751	751	751	

BOTH SIDES  
 ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	5	0.19
0-40	10	0.38
0-60	49	1.90
0-90	189	7.30
40-90	179	6.91
60-90	140	5.40
90-180	2400	92.70
0-180	2589	100.00

EFFICACY (LUMENS PER WATT): 91.2

\*\*\* THIS IS AN ABSOLUTE TEST \*\*\*

LUMINOUS LENGTH: 5.900 INS  
 WIDTH: 1.600 INS

LUMINANCE SUMMARY - CD./SQ.M.

ANGLE	BEAM SIDE		
	ALONG	45	ACROSS
45	232	7692	4172
55	572	8850	4856
65	1165	12125	4914
75	4440	6224	4266
85	344769	245356	6808

CERTIFIED BY:

DATE:  
 DEC 11, 2013

PREPARED FOR:

ARTEMIDE  
 ITALY

TESTED IN ACCORDANCE WITH IES PROCEDURES.



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

TEST REPORT No. 10147372-1

ARTEMIDE, CAT# MESMERI  
 MESMERI  
 LED, CAT# LED. LUMINAIRE OUTPUT = 2589 LMS  
 OPERATING AT 120 V 60 Hz 28.37 W

BEAM SIDE  
 INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	67.5	45	22.5	ACROSS	AVERAGE	
0	7	7	7	7	7	7	
5	5	6	7	8	8	7	0
10	5	5	7	8	8	6	
15	3	4	6	8	9	6	1
20	3	4	6	8	9	6	
25	5	3	6	8	9	6	1
30	1	2	5	8	9	5	
35	1	2	7	9	9	5	2
40	1	8	30	22	10	16	
45	1	27	33	28	18	24	9
50	5	25	33	32	19	25	
55	2	22	31	35	17	24	11
60	2	24	29	34	15	24	
65	3	23	31	31	13	23	10
70	5	6	27	26	9	16	
75	7	10	10	23	7	12	8
80	10	35	25	21	5	22	
85	183	211	130	12	4	112	52
90	268	240	157	43	3	144	
95	292	266	187	82	16	172	94
100	315	294	221	116	40	202	
105	341	323	258	151	75	235	124
110	370	356	294	190	125	272	
115	450	386	327	235	188	317	155
120	435	413	361	288	260	352	
125	454	442	397	350	336	396	177
130	478	473	442	418	415	445	
135	507	506	491	483	487	494	191
140	541	544	544	543	549	544	
145	580	591	597	597	603	594	185
150	624	636	642	643	647	639	
155	662	675	679	681	684	677	156
160	695	705	708	711	711	707	
165	715	725	728	731	732	727	102
170	730	738	742	743	744	740	
175	739	745	748	750	750	747	36
180	751	751	751	751	751	751	

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ARTEMIDE, CAT# MESMERI  
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LED, CAT# LED. LUMINAIRE OUTPUT = 2589 LMS  
OPERATING AT 120 V 60 Hz 28.37 W

BEAM SIDE  
AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

ANGLE	ALONG	67.5	45	22.5	ACROSS
0	1123( 327)	1123( 327)	1123( 327)	1123( 327)	1123( 327)
30	189( 55)	399( 116)	1026( 299)	1520( 443)	1687( 492)
40	214( 62)	1654( 482)	6436( 1878)	4814( 1405)	2207( 644)
45	232( 67)	6370( 1859)	7692( 2245)	6427( 1876)	4172( 1217)
50	1277( 372)	6281( 1833)	8303( 2423)	8068( 2354)	4751( 1386)
55	572( 167)	6395( 1866)	8850( 2583)	9991( 2916)	4856( 1417)
60	656( 191)	7875( 2298)	9401( 2743)	11292( 3295)	5057( 1476)
65	1165( 340)	9099( 2655)	12125( 3539)	11887( 3469)	4914( 1434)
70	2400( 700)	2987( 871)	12999( 3794)	12316( 3594)	4464( 1303)
75	4440( 1296)	6431( 1877)	6224( 1816)	14641( 4273)	4266( 1245)
80	9455( 2759)	33127( 9668)	23445( 6842)	19506( 5693)	4633( 1352)
85	344769(100626)	399089(116480)	245356( 71610)	23067( 6732)	6808( 1987)

LUMINOUS LENGTH: 5.900 INS  
WIDTH: 1.600 INS

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ARTEMIDE, CAT# MESMERI  
 MESMERI  
 LED, CAT# LED. LUMINAIRE OUTPUT = 2589 LMS  
 OPERATING AT 120 V 60 Hz 28.37 W

OPPOSITE SIDE TO BEAM  
 INTENSITY(CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	112.5	135	157.5	ACROSS	AVERAGE	
0	7	7	7	7	7	7	
5	5	6	7	8	8	7	0
10	5	5	7	8	8	7	
15	3	4	7	8	9	6	1
20	3	3	6	8	9	6	
25	5	3	5	8	9	6	1
30	1	2	5	8	9	5	
35	1	1	6	8	9	5	2
40	1	7	31	21	10	16	
45	1	25	33	28	16	24	9
50	5	23	32	32	20	25	
55	2	18	31	35	18	24	11
60	2	22	29	35	16	24	
65	3	23	31	32	14	23	11
70	5	6	30	26	11	18	
75	7	10	18	22	8	14	9
80	10	32	18	23	6	20	
85	183	204	113	18	5	107	49
90	268	242	157	24	3	140	
95	292	266	188	72	10	169	92
100	315	291	218	103	30	196	
105	341	319	252	135	59	227	120
110	370	348	285	169	98	259	
115	450	377	317	209	153	301	148
120	435	406	348	259	222	335	
125	454	431	381	318	298	376	169
130	478	459	420	384	377	423	
135	507	494	470	454	454	475	183
140	541	534	522	517	521	526	
145	580	577	573	572	576	575	180
150	624	620	619	619	623	620	
155	662	659	658	659	662	659	152
160	695	691	690	693	694	692	
165	715	713	715	717	718	715	101
170	730	731	734	736	736	733	
175	739	744	747	748	749	746	36
180	751	751	751	751	751	751	

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MESMERI  
LED, CAT# LED. LUMINAIRE OUTPUT = 2589 LMS  
OPERATING AT 120 V 60 Hz 28.37 W

OPPOSITE SIDE TO BEAM  
AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

ANGLE	ALONG	112.5	135	157.5	ACROSS
0	1123( 327)	1123( 327)	1123( 327)	1123( 327)	1123( 327)
30	189( 55)	380( 110)	1026( 299)	1520( 443)	1744( 509)
40	214( 62)	1525( 445)	6736( 1966)	4577( 1336)	2121( 619)
45	232( 67)	5905( 1723)	7715( 2251)	6614( 1930)	3822( 1115)
50	1277( 372)	5820( 1698)	8277( 2415)	8247( 2407)	5032( 1468)
55	572( 167)	5276( 1540)	8879( 2591)	10049( 2933)	5229( 1526)
60	656( 191)	7249( 2115)	9500( 2772)	11358( 3315)	5385( 1571)
65	1165( 340)	8827( 2576)	11891( 3470)	12277( 3583)	5499( 1604)
70	2400( 700)	3083( 899)	14347( 4187)	12605( 3678)	5136( 1499)
75	4440( 1296)	6177( 1802)	11687( 3411)	14195( 4143)	5030( 1468)
80	9455( 2759)	29994( 8754)	16895( 4931)	21494( 6273)	5484( 1600)
85	344769(100626)	385289(112452)	213624( 62349)	34601( 10098)	8510( 2483)

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MESMERI  
LED, CAT# LED. LUMINAIRE OUTPUT = 2589 LMS  
OPERATING AT 120 V 60 Hz 28.37 W

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	1.101	1.101	1.101	1.101	0.970	0.970	0.970	0.970	0.840	0.840	0.840	0.840	0.600	0.600	0.600	0.370	0.370	0.370	0.170	0.170	0.170	0.07			
1	0.990	0.930	0.880	0.85	0.870	0.820	0.780	0.74	0.750	0.710	0.670	0.63	0.500	0.480	0.46	0.300	0.290	0.28	0.130	0.120	0.11	0.03			
2	0.890	0.810	0.740	0.67	0.780	0.710	0.650	0.60	0.670	0.610	0.560	0.52	0.430	0.400	0.37	0.260	0.240	0.22	0.110	0.100	0.09	0.02			
3	0.820	0.710	0.630	0.56	0.720	0.620	0.550	0.50	0.610	0.540	0.480	0.43	0.380	0.340	0.31	0.230	0.210	0.19	0.090	0.080	0.07	0.02			
4	0.740	0.620	0.530	0.47	0.650	0.550	0.470	0.41	0.560	0.470	0.410	0.36	0.330	0.290	0.26	0.200	0.180	0.16	0.080	0.070	0.06	0.01			
5	0.680	0.530	0.460	0.39	0.600	0.480	0.410	0.35	0.510	0.420	0.350	0.30	0.300	0.250	0.22	0.180	0.150	0.13	0.070	0.060	0.05	0.01			
6	0.620	0.490	0.400	0.34	0.550	0.430	0.350	0.30	0.470	0.370	0.310	0.26	0.260	0.220	0.19	0.160	0.130	0.11	0.060	0.050	0.04	0.01			
7	0.570	0.440	0.350	0.29	0.500	0.380	0.310	0.26	0.430	0.330	0.270	0.22	0.230	0.190	0.16	0.140	0.120	0.10	0.060	0.050	0.04	0.00			
8	0.530	0.390	0.310	0.25	0.460	0.350	0.270	0.22	0.400	0.300	0.240	0.19	0.210	0.170	0.14	0.130	0.100	0.08	0.050	0.040	0.03	0.00			
9	0.490	0.350	0.270	0.22	0.430	0.310	0.240	0.19	0.370	0.270	0.210	0.17	0.190	0.150	0.12	0.120	0.090	0.07	0.050	0.040	0.03	0.00			
10	0.450	0.320	0.240	0.19	0.400	0.280	0.210	0.17	0.340	0.250	0.190	0.15	0.170	0.130	0.11	0.110	0.080	0.07	0.040	0.030	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 28.4

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.