

Terracotta oil lamps from the excavation at the BEY 004 site (Beirut, Lebanon)



Abstract: The excavation of site BEY 004 in the urban center of Beirut was done as part of a major salvage-archaeology operation in the 1990s, in preparation for the redevelopment of the city after the Lebanese Civil War. War destruction had given archaeologists the opportunity to investigate the topography, history and everyday life of Beirut over the millennia since its establishment and before a new city would be built on top of the ruins in the 21st century. Terracotta oil lamps, like tableware, are a sensitive guide to the passage of time and cultures, spanning the ages the 5th century BC through the 9th century AD, from Persia to Islam. The article reviews the assemblage from the BEY 004 site, broken down by a local site typology that reflects major periods of occupation, and relates it to existing typologies of ancient Near Eastern lamps from the Canaanite to the Islamic.

Keywords: Beirut, Bey 004, clay oil lamps, Canaanite, Greek, Roman, Byzantine, Islamic, imported lamps

Terracotta oil lamps have been demonstrated to be one of the widely traded products of ancient economies, hence their role for economic studies, especially the history of trade (Harris 1993). Their ubiquity in everyday life, and resulting frequency among the finds have made them a fairly sensitive chronological indicator with often precise and reliable time ranges being established for given types and forms. This is also true of the Beirut lamp assemblages, although critical caution is advised

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regarding the “fixed” dates proposed in many studies, mainly because of the small number of closed deposits, that is, undisturbed stratigraphy coming from Beirut and the continuing parallel presence of occupation phases extending over several centuries.

The archaeological–stratigraphic context is of the greatest importance for counterchecking lamp typology. For lamps found *in situ*, in undisturbed contexts, the problem of location is limited to establishing the different lampmaking workshops and tracing the routes by which



Fig. 1. Site BEY 004 in Beirut: top, view of center Beirut with the location of the site; bottom, view of Roman remains at the site (Photo A. Marinacchio, <http://www.introublewiththeking.com/beirut-2018>)

lamps were brought to a site. Coincidental finds of coins and other commonly used objects from specific stratigraphic layers come together with the lamps to provide often a clear indication of dating. Indeed, even incomplete lamps are a more precise chronological marker than ceramic forms, which may remain unchanged for long periods of time (Chevallier 1962).

Can the lamp fragments from the Beirut excavations contribute to the study of this site and its continued occupation over the centuries? The following review of the assemblage from one of the *chantiers* in downtown Beirut, excavated in the 1990s as part of a major urban archaeology salvage project instituted in the destruction zone after the end of the Lebanese Civil War, demonstrates the potential of this set for identifying the commercial relations and cultural currents of the ancient city of Beirut.

SITE BEY 004

Lebanese University excavations in December 1993, west of the Maronite cathedral of St George and east of Ma'arad Street, covered an area of about 10,000 m². The area was greatly disturbed both in antiquity and in modern times. The ancient urban layout that was uncovered included the monumental *Cardo Maximus* and a secondary *Decumanus*, with dense residential districts on both sides of the street (Saghieh-Beydoun 1998–1999). A sequence of eight major period levels with sub levels was identified (Saghieh 1996):

- Hellenistic (3rd to 1st century BC),
- Roman (1st century BC to end of 3rd century AD),
- early Byzantine (4th to mid-6th century AD),

- quake-related destruction (mid-6th century AD),
- late Byzantine (mid 6th to early 7th century AD),
- early medieval (from the Omayyad conquest to the end of the Fatimid period),
- late medieval (from the Crusaders' invasion to the Ottoman occupation),
- Ottoman.

BEY 004 ARCHAEOLOGICAL CONTEXTS

The material, collected *en masse* like tableware, is characteristic of a residential area. The excavation revealed disturbed remains of Hellenistic, Roman and Byzantine houses and most of the collection can be assigned to these major chronological phases. A little less than a hundred Islamic lamps can be typologically linked to the Umayyad (661–750), Abbasid (750–1258) and Ottoman (1516–1918) periods. Most of the lamp finds were made in the western part of the site, along the course of the *cardo maximus*. However, the contexts appear to be the result of modern construction operations, moving large quantities of soil within the ancient district. Byzantine and Roman ceramics are mixed with Islamic-period production (for the vast bibliography concerning each of the multiple excavations led in the Lebanese capital, see the location tables, Paturol 2019: 295–300, Table 4). This was particularly the case for layer 1817 in square XIII A. Layer 1826, covered with material from the late medieval period, was cut by a pit containing Roman ceramics. Other examples: layer 1843 yielded ancient material as well as artifacts from the 18th and 19th centuries. The only truly homogeneous Islamic layers were layers 1844–1845 in

square XIII A (Abbasid-period material). It does not seem possible to reconstruct the original topography of this part of Beirut in the different time periods, thus giving meaning to the findings. The post-war clean-up work and bulldozing of the highest standing remains have probably caused irreparable damage.

THE LAMP SERIES FROM SITE BEY 004

The material is presented broken down by a site typology which takes as its framework the established general chronology of occupation in Beirut, starting from the Canaanite, through Greek and Hellenistic, to Roman, Byzantine and Islamic. Within these chronological categories, the lamp finds were classified first by production techniques: open wheel-made, closed wheel-made and molded. Attention was given to the identification of local production, which appears to have held its own in the face of a thriving market for imported lamps sources, starting from the open so-called Canaanite lamps, through imported lamps. Open and moldmade lamps were produced locally from the end of the 3rd century

BC and were phased out only in the 9th century AD (Da Costa 2001: 246–247).

To make it clear, the author's goal was not a new typology, distinct from the many existing typologies in use, but rather an easy cross-referencing of the Beirut series with the more mainstream publications. The order of the catalog follows the break-down into chronological periods and reflects the author's identification of production techniques and centers, as well as unique pieces, providing a reference to existing typologies where possible. Thus, the first group consists of saucer lamps from the Persian period, so-called Canaanite or cup-shaped lamps. Next come the Greek and Hellenistic lamps, which were clearly brought to the region along with other imports and which quickly became a fashionable alternative to the saucer lamps. The third series are the molded lamps—Roman, Byzantine and Islamic—which were produced continuously for more than a millennium starting from the 3rd century BC. The dating draws upon site stratigraphy where viable, or else references known time ranges for given types and forms (Patureau 2019).

CATALOG

Abbreviations used in the catalog:

L. – length; W. – width; H. – height; Th. – wall thickness; Dia. – diameter.

The lamp series are presented in the catalog in the following order:

1. Canaanite lamps	
Open "saucer" lamps	Roughly 5th–4th century BC
2. Greek imported lamps	
BEY 1	4th–3rd century BC
BEY 2	Between the last third of the 4th century (variant A) and the first half of the 3rd century (variant B)

3. Hellenistic imported and local lamps	
BEY 3	Second half of 2nd–first half of 1st century AD
BEY 4	2nd–first half of 1st century BC
BEY 5	End 3rd–beginning 2nd century BC
BEY 6	Second half of 1st century BC
BEY 7	2nd–1st century BC
BEY 8	Hellenistic
BEY 9	Second half of 2nd–first quarter of 1st century BC
BEY 10	Last quarter of 2nd–first quarter of 1st century BC
BEY 11	End of 1st century BC
BEY 12	2nd–1st century BC
4. Roman imported and local lamps	
BEY R 1	Second half of 1st–2nd century AD
BEY R 2	1st century AD
BEY R 3	1st–2nd century AD
BEY R 4	1st century AD
BEY R 5	1st–2nd century AD
BEY R 6	2nd century AD
BEY R 7	1st century AD
BEY R 8	Second half of 1st–2nd century AD
BEY R 9	Mid 1st–3rd century AD
BEY R 10	First half to mid 2nd century AD
BEY R 11	Last quarter of 1st–first quarter of 2nd century AD
BEY R 12	1st–end of 2nd century AD
BEY R 13	1st century AD
5. Byzantine imported and local lamps	
BEY B 1	4th century
BEY B 2	End of 3rd–6th century AD
BEY B 3	3rd–5th century AD
BEY B 4	6th century AD
BEY B 5	2nd–3rd century AD / late Roman
BEY B 6	2nd–3rd century AD
6. Islamic local lamps	
BEY I 1	8th–9th century AD
BEY I 2	8th–9th century AD
BEY I 3	8th century AD
BEY I 4	8th–9th century AD
BEY I 5	8th–9th century AD
BEY I 6	8th century AD
BEY I 7	8th–9th century AD
BEY I 8	Uncertain dating

Lamps are illustrated selectively (objects pictures in the figures are indicated by catalog numbers in bold).

1. CANAANITE LAMPS

Wheel-made open clay lamp in the form of a shallow dish, also called a saucer lamp, the edges folded in to form a wick-rest.

Dating: From the 9th century BC, still attested in the 4th century BC.

Parallels: See Oziol 1977: Cat. 27, Pl. 1 (for a single parallel from Delos, see Bruneau 1965: Cat. 20,1 and Pl. 1,1)

Cat. No.	Description/dimensions/fabric/decoration and discus iconography	Localization Square/SU/SF#
1-8.	Largely complete lamps (Cat. 1 and Cat. 2) and fragments Fabric homogeneous 7.5 YR 8/6 pale brown	II B/17053/<14089>; V B B/2217/<343>; V J J/9624/<14124>; VI D/14023/<14080>; VI K/10794/<14125>; VII A/1046/<344>; XIV S/934/<12>; XIV S/934/<9>

2. GREEK LAMPS OF THE 4TH AND 3RD CENTURY BC

Wheel-made lamps from Athens, produced from the 6th century BC, were manufactured in a large number of workshops around the Mediterranean. They copied the hugely popular Athenian products. With time the body underwent evolution from elongated to more globular, and the nozzle became longer (Type BEY 1). A concentric groove around the filling hole is a characteristic feature. The base is concave. It is higher in the older examples. Over time, the evolution of the form led to a more rounded section.

Type BEY 2 (in an earlier variant A and later B) had a balanced body, slightly curved, on a base ring and furnished with a side lug that was occasionally pierced for the purpose of threading a string for suspension. A slight groove surrounded the filling hole. The execution of many of these lamps was quite mediocre. The base is lower or missing entirely. The variant may be a local imitation.

Cat. No.	Description/dimensions/fabric/decoration and discus iconography	Localization Square/SU/SF#
Type BEY 1		
<i>Type and parallels:</i> See Broneer 1930: Cat. 7; Howland 1958: Cat. 312; Bovon 1966: Cat. 29; Oziol 1977: Type 7; Turquety-Pariset 1982: 3; 1:2-2-5;		
9.	Almost complete Fabric 7.5 YR 7/6 pale red	V J J/9426/<14073>
10.	Body with three lightly incised concentric; flattened nozzle terminates in a pronounced bulge. L. 6.5; W. 4.3; H. 3.0; Th. 0.5, Dia. base 3.0 cm Fabric 7.5 YR 7/6 pale red	V J J/9424/<14154>
11.	Complete; short, slightly triangular nozzle Fabric 7.5 YR 7/6 pale red	VI J/12/<12069>
12.	Complete; slightly piriform section; groove around filling hole; traces of use L. 6.5; W. 4.5; H. 2.5; Th. 0.5, Dia. base 3.0 cm Fabric 7.5 YR 7/6 pale red, no slip, no wash	III E/13042/<14159>
13.	Fabric 7.5 YR 7/6 pale red	VIII-IX K/P.232/ 10466/<14167>
14.	L. 6.1; W. 4.4; H. 2.5 cm; Dia. wick hole/filling hole 1.2/2.1 cm Fabric 7.5 YR 7/6 pale red	IV C/P.193/ 3611/<14050>
Type BEY 2: variants A (Nos 15–26) and B (Nos 27–30)		
<i>Type and parallels:</i> Howland 1958: T.29; (variant A) and the first Oziol 1977: Cat. 2; half of the 3rd century Blondé 1983: Cat. 4 (variant B)		
15.	Almost complete. Biconical body; short nozzle L. 8.0; W. 5.8; H. 2.9; Th. 0.6, Dia. base 3.0; discus 2.3 cm Fabric 5 YR 6/6 pale red, slip 2.5 YR 4/6 dark red	III E/13044/<14160>
16.	Almost complete. Biconical body, base ring L. 6.2; W. 6.1; H. 3.9; Th. 0.5, Dia. base 3.2 cm Fabric 5 YR 7/4 pink, slip 2.5 YR 4/6 dark red	V E/5389/<14161>
17.	Biconical body L. 3.5; W. 6.5; H. 3.1; Th. 0.4, Dia. wick/filling hole 2/3.5 cm Fabric 5 YR 7/4 pink, slip 2.5 YR 4/6 dark red	VIII L/10250/<14162>
18.	Complete. Biconical body, high base L. 10.0; W. 7.0; H. 3.1; Th. 4; Dia. base 4.1 cm Fabric 7.5 YR 8/3 pink, slip 2.5 YR 4/2 dark red	IX L/10353/<14163>
19.	Almost complete. Biconical body, high base L. 8.9; W. 6.2; H. 3.2; Th. 0.4, Dia. base 3.8 cm Fabric 7.5 YR 8/3 pink, slip 2.5 YR 4/2 dark red	IX L/10437/<14164>
20.	Fragmentary (13 fragments of the same lamp) Biconical body L. 9.0; W. 6.2; H. 3.2; Th. 0.4, Dia. base 3.4 cm Fabric 5 YR 7/4 pink, slip 2.5 YR 4/6 dark red	VIII L/10250/<14165>

21.	Fragment Fabric 5 YR 7/3 pink, slip 5 YR 4/3 brown red	VIII-IX K/P.232/ 10466/<14166>
22.	Fragment H.3.2; Dia. base 3.6 cm Fabric 5 YR 7/3 pink, slip 5 YR 4/3 red brown	IV D/4820/<14014>
23.	Fragmentary (four fragments), recomposed; broken nozzle H.3.2; Dia. base 3.6 cm Fabric 10 YR 8/4 very pale brown, slip 2.5 YR 4/8 red	VI K/P.211/-/<14147>
24.	Almost complete, broken nozzle H.3.2; Dia. base 3.6 cm Fabric 5 YR 7/3 pink, slip 5 YR 4/3 red brown	V J J/9424/<14115>
25.	Almost complete, nozzle broken H.3.2, Base 3.6 cm Fabric 5 YR 7/3 pink, slip 5 YR 4/3 reddish brown	VI H/815/<14114>
26.	Fragment of body	XIII /P.229/10266/<14102>
27-30.	Four lamps, from one assemblage Fabric 5 YR 7/3 pink, slip 5 YR 4/3 red-brown H. 3.2; Dia. base 3.6 cm	-/- 4103>,<14104>,<14105>
Types BEY 1 and BEY 2: other similar lamps		
31.	Almost complete H.3.2; Dia. base 3.6 cm Fabric 5 YR 7/3 pink, slip 5 YR 4/3 red brown	VIII L/P.229/10265/<14082>
32.	Almost complete H.3.2; Dia. base 4.1 cm Fabric 5 YR 7/3 pink, slip 5 YR 4/3 red brown	IV D/4820/<14014>
33.	Fragmentary (10 fragments), recomposed Fabric 5 YR 7/3 pink, slip 5 YR 4/3 red brown	VI J/7/<12070>
34.	Fragment H.3.2; Dia. base 3.6 cm Fabric 5 YR 7/3 pink, slip 5 YR 4/3 red brown	III D/P.196/ 14026/<14101>
35.	Fragment of body Fabric 2.5 Y 7/4 pale yellow, slip 10 R 4/4 weak red	II B/17053/<14088>
36.	Fragment H.3; Dia. base 3.5 cm Fabric 5 YR 7/3 pink, slip 5 YR 4/3 red brown	V S/P.19/267/<14090>
37.	Base fragment Fabric 5 YR 7/3 pink, slip 5 YR 4/3 red brown	VI C/3349/<14117>
38.	Fragment of body	III B/17095/-
39.	Fragment of body	IV D/-/<14015>
40.	Fragment of body, short ogival nozzle	XIII B/-/-
41.-51.	Fragments (10), like Cat. 40	-
52.-54.	Various fragments from the same type of lamp	-

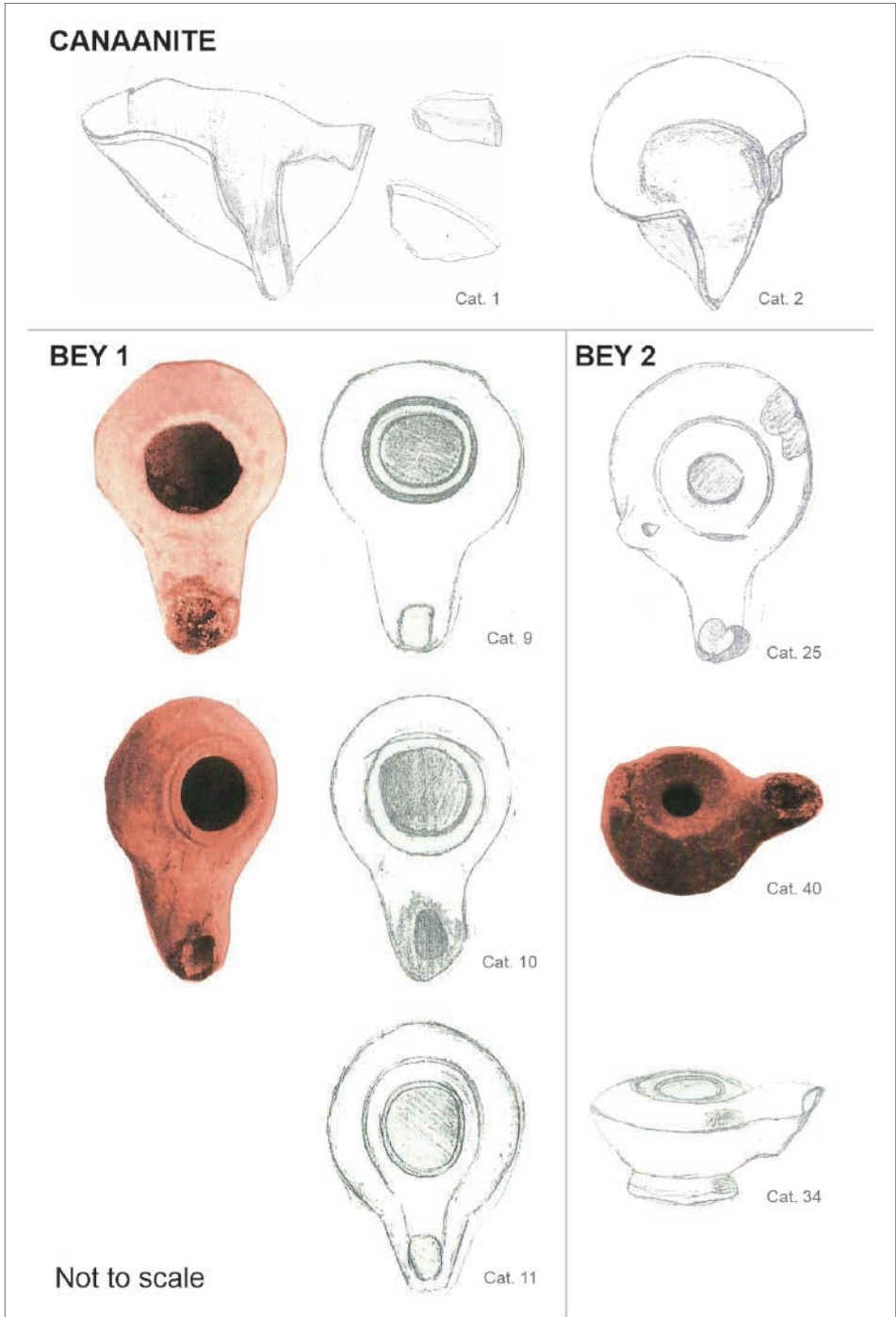


Fig. 2. Canaanite saucer lamps and Greek wheel- and moldmade lamps (Types BEY 1 and BEY 2) from site BEY 004 (Photos M. Masri; drawing L. Zouhairi; digital processing N. Tannir)

3. HELLENISTIC LAMPS

The lamps from the zone of the churches present a considerable variety of shapes. The classification is based on the shape of three elements: body, nozzle and handle. The wheel-made lamp was quite low at first, becoming gradually deeper and more rounded until it became biconical.

No.	Description/dimensions/fabric/decoration and discus iconography	Localization Square/SU/SF#
	TYPE BEY 3 <i>Type and parallels:</i> Goldman and Jones 1950: Cat. 37; Oziol and Pouilloux 1969: Cat. 3 Biconical lamp, strongly carinated, long tubular nozzle. Side lug, often with S-shaped decoration. Bodies decorated with geometrical, vegetal and figural motifs.	Second half of 2nd–first half of 1st century BC
55.	Complete lamp L. 8.9; W. 5.3; H. 2.6; Th. 0.5; Dia. base 2.9 cm Fabric 5 YR 5/1 grey, slip 5 YR 2.5/1 black	III E/13042/<14170>
56.	Almost complete lamp L. 9.8; W. 6.0; H. 3.0; Th. 3, Dia. base 3.2 cm Fabric 5 YR 5/1 grey, slip 5 YR 2.5/1 black Decoration: Palmettes	IX L/10437/<14173>
57.	Almost complete L. 8.1; W. 6.2; H. 2.8; Th. 0.5, Dia. base 3.1 cm Fabric 5 YR 5/1 grey, slip 5 YR 2.5/1 black Decoration: Wreath of pointed lotus leaves around filling hole; palmette on the top of the nozzle	III F F/12126/<14171>
58.	Almost complete L. 6.5; W. 5.7; H. 2.3; Th. 0.3, Dia. base 3.0; discus 4.5 cm Fabric 5 Y 7/2 light grey, slip 5 Y 6/1 grey Decoration: Alternating pointed lotus leaves and semicircles separated by rays around the filling hole; side lug with S-shaped ornament; palmette on the top of the nozzle	IV G/P.141/ 7877/<14121>
59.	Fragment of body and nozzle L. 6.2; W. 5.2; H. 2.7; Th. 0.3, Dia. base 3.0 cm Fabric 5 Y 4/1 dark grey, slip 5 Y 2.5/1 black Decoration: Pointed lotus leaves around filling hole; palmette on the top of the nozzle	IV G/P.141/ 7877/<14138>
60.	Fragment of body and nozzle L. 6.8; W. 5.0; Th. 2, Dia. base 2.8 cm Fabric 5 YR 5/1 grey, slip 5 YR 2.5/1 black Decoration: Side lug with S-shaped ornament; groups of relief bars on the shoulder	III D/P.196/ 14012/<14172>
61.	Fragmentary L. 8.5; W. 5.5; H. 2.4; Th. 0.3, Dia. base 2.8 cm Fabric 5 Y 5/1 grey, slip 5 Y 2.5/1 black Decoration: Analogous to Cat. 60	VI K/P.211/ 10794/<14139>

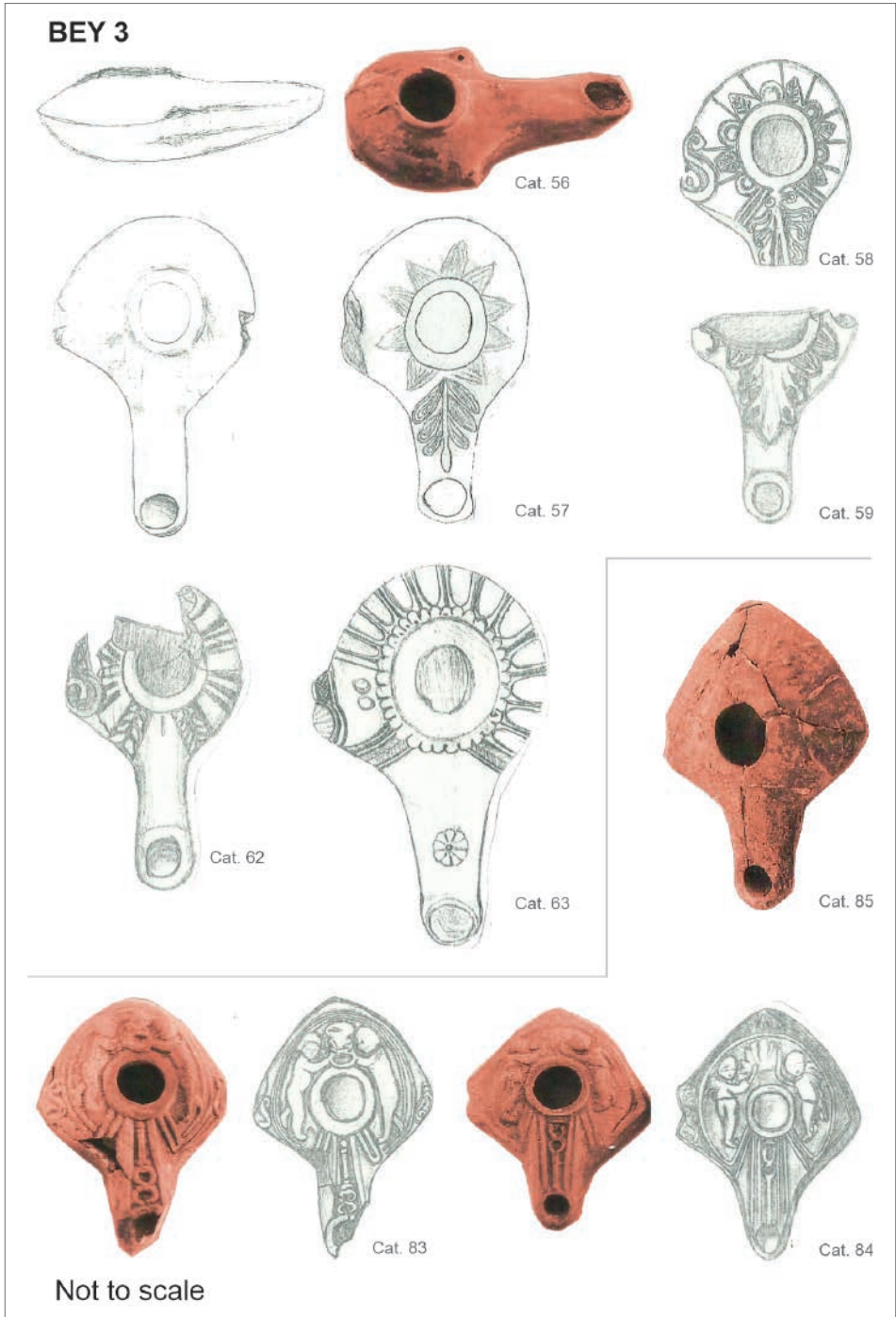


Fig. 3. Hellenistic moldmade lamps from site BEY 004: types BEY 3 and BEY 4 (Photos M. Masri; drawing L. Zouhairi; digital processing N. Tannir)

62.	Almost complete, restored Fabric 7.5 YR 5/1 grey, slip 10 YR 2/1 black Decoration: Analogous to Cat. 60	IV C/P.193/ 3605/<14070>
63.	Almost complete Fabric 7.5 YR 5/1 grey, slip 10 YR 2/1 black Decoration: Band of ovules around filling hole; on body, herringbone ornament at the nozzle base on either side and an egg-and-dart pattern around the lamp; rosette on top of the nozzle	VI J/12/<12064>
64.	Fabric 7.5 YR 5/1 grey, slip 10 YR 2/1 black Decoration: Relief bars on body; S-shaped ornament on side lug	VI J/8/<12063>
65.	Almost complete Fabric 7.5 YR 5/1 grey, slip 10 YR 2/1 black Decoration: body decorated with relief bars; S-shaped ornament on side lug	VI F/6108/<272>
66.	Complete lamp, similar to Cat. 65 Fabric 5 Y 5/1 grey, slip 5 Y 2.5/1 black	VI J/8/<142>
67.	Fragments of nozzle and body L. 5.5; W. 4.2; H. 2.3; Th. 0.5 cm Fabric 5 YR 5/1 grey, slip 5 YR 2.5/1 black	VIII-IX K/P.232/ 10466/<14169>
68.	Fragment of body and nozzle L. 7.5; W. 5.5; H. 2.0; Th. 0.4, Dia. base 2.5 cm Fabric 2.5 Y 7/3 pale yellow, slip 2.5 Y 3/1 dark grey Decoration: egg-and-dart pattern on body and herringbone ornament at the nozzle base on either side; floral festoons; caduceus on top of the nozzle	VI K/P.211/ 10794/<14146>
69.	Fragment of body Fabric 5 Y 5/1 grey, slip 5 Y 2.5/1 black Decoration: Grooves and loops	VII C/3355/<14157>
70.	Fragment of body Fabric 5 Y 5/1 grey, slip 5 Y 2.5/1 black Decoration: egg-and-dart pattern and herringbone ornament on body	VII C/3354/<14158>
71.	Fragment of body and nozzle Fabric 5 Y 5/1 grey, slip 5 Y 2.5/1 black Decoration: egg-and-dart pattern on shoulder	IV G/P.141/ 7877/<14145>
72.	Base fragment Fabric 7.5 YR 5/1 grey, slip 10 YR 2/1 black	VI K/P.211/ 10794/<14112>
73.	Six fragments of different lamps Fabric grey 7.5 YR 5/1, slip 10 YR 2.1 red Decoration: Eros figure on the discus; fragment with rosette; fragment of S-shaped ornament on side lug	VI G/P.100/ 7240/<14140>
74.	Base fragment L. 7.0; Dia. 5.4 cm Fabric 2.5 YR 5/1 gray	IV C/P.193/ 3611/<14058>
75.	Fabric and slip 2.5 YR 5/1 grey	I D/14912/<14045>
76.	Fragment L. 5.9 cm Fabric 2.5 YR 5/1 gray	IV-III C/P.193/ 3604/<14056>
77.	Fabric and slip 10 YR 6/1 dark grey	VII K/P.212/10752

78.	Complete lamp except for nozzle. Side lug. Fabric 10 YR 6/1 grey, slip 10 YR 3/1 dark grey	III C/15050
79.-82.	Fragments of nozzles Fabric and slip grey	-
TYPE BEY 4 <i>Type and parallels:</i> Goldman and Jones 1950: Group IV Biconical body section, sharp carination. Characteristic iconography in the form of facing figures of Eros or Nike, holding a mask or palmette. Caduceus or floral branch on the top of the nozzle		2nd-first half of 1st century BC
83.	Almost complete, restored L. 9.0; W. 6.0; H. 2.7; Th. 0.3; Dia. base 2.9; discus 5 cm Fabric 10 YR 6/1 grey, slip 10 YR 3/1 dark grey Decoration: Two Erotes flanking the filling hole, holding up a comic mask. Caduceus in deep relief in a panel framed on the top of the nozzle. S-shaped ornament on the side lug.	VI K/P.211/ 10794/<14122>
84.	Complete lamp L. 9.0; W. 7.0; H. 2.5; Th. 0.3; Dia. base 3.2; discus 5.5 cm Fabric 10 YR 6/1 grey, slip 10 YR 3/1 dark grey Decoration: Palmette instead of the comic mask of Cat. 83; caduceus pointing to filling hole	III C/P.198/ 15109/<14062>
85.	Complete lamp, restored Fabric 7.5 YR 7/6 orange red, slip 10 YR 6/4 red Decoration: Effaced	IV E/5627/<134>
86.	Lamp shoulder L. 4.3; Dia. 2.0 cm Fabric 10 YR 6/1 grey Vegetal decoration on nozzle; not assigned to type	I D/14910/<14046>
87.	Incomplete, restored L. 8.3; W. 6.1; H. 3; Th. 0.4; Dia. base 2.8; discus 5.6 cm Fabric 7.5 YR 5/1 grey, slip 10 YR 2/1 black Decoration: Poorly legible decoration (vegetal and dolphins); not assigned to type	VIII-IX K/P.232/ 10466/<14168>
TYPE BEY 5 <i>Type and parallels:</i> Broneer 1930: Type XII; Waagé 1934: II d; Goldman and Jones 1950: Group IV; Crowfoot, Crowfoot, and Kenyon 1957: Type I; Oziol 1977: Cat. 68 Biconical form; two side lugs; long tubular nozzle		End of 3rd century- beginning of 2nd century BC
88.	Almost complete, restored. Low biconical body L. 8.8; W. 7.0; H. 2.3; Th. 0.6; Dia. base 3.6 cm Fabric 7.5 YR 5/1 grey, slip 10 YR 2.1 black Decoration: Egg-and-dart ornament; two stylized branches on either side of nozzle	V E/5390/<14175>
89.	Fabric 7.5 YR 5/1 grey, slip 10 YR 2.1 red Decoration: Nozzle with heart-shaped decoration	V E/5387/<14176>
90.	Complete lamp, corroded surface Fabric 10 YR 6/1 grey, slip 10 YR 3/1 dark grey Decoration: Bearded mask on nozzle top	III E/13044/<14120>

91.	Complete lamp Fabric 10 YR 6/1 grey, slip 10 YR 3/1 very dark gray Decoration: Bearded mask on nozzle top	VI D/4094/-
92.	Fabric 7.5 YR 7/4 pink, slip 10 R 4/6 red Decoration: Palmette on nozzle top	V G/P.231/7242
93.	Complete lamp Fabric 10 YR 6/1 grey, slip 10 YR 3/1 dark grey Decoration: Circles and ovules around filling hole	VI K/P.212/10759
TYPE BEY 6 <i>Type and parallels:</i> Bruneau 1965: Cat. 4375 Rounded body; low relief ridge around filling hole, double volute joining body to wick hole.		Second half of 1st century BC
94.	Complete lamp L. 10.0; W. 6.4; H. 3.2; Th. 0.4; Dia. base 3.4 cm Fabric light brown, slip 10 YR 4/6 dark red	V H/P.132/8720/<1368>
95.	Complete, restored; missing nozzle L. 8.4; W. 5.7; H. 2.9; Th. 0.4; Dia. base 3.0; wick hole 1.4 cm Fabric 2.5 YR 8/4 pink, slip 2.5 YR 5.8 red Decoration: Rows of superimposed lotus leaves around filling hole, herringbone pattern flanking nozzle at the base; double volute on the nozzle	IX L/P.232/ 10432/<14174>
96.	Almost complete Fabric 7.5 YR 5/1 grey, slip 10 YR 2/1 black Decoration: vegetal	III E/13044/<14177>
97.	Fragment of body Fabric 7.5 YR 5/1 grey, slip 10 YR 2/1 black	III E/13042/<14178>
98.	Fragments, non-joining Fabric 7.5 YR 5/1 grey, slip 10 YR 2/1 black Decoration: vegetal	III F F/12046/<14179>
TYPE BEY 7 <i>Type and parallels:</i> Bruneau 1965: Type VII; Oziol 1977: D, 139, Pl. 7.P.60 Ephesos-type lamp with strongly biconical body. Tape handle with groove down the center.		2nd–1st century BC
99.	Three-fourths of a lamp Fabric and slip 7.5 YR 5/1 grey Decoration: Short notches on the shoulder	IV G/7850/<705>
TYPE BEY 8		
100.	Fragment of an unidentified lamp in the shape of a bird: wings are depicted on the body, the head forms a grip handle; palm branch incised on base	VII H/8461/<14074>

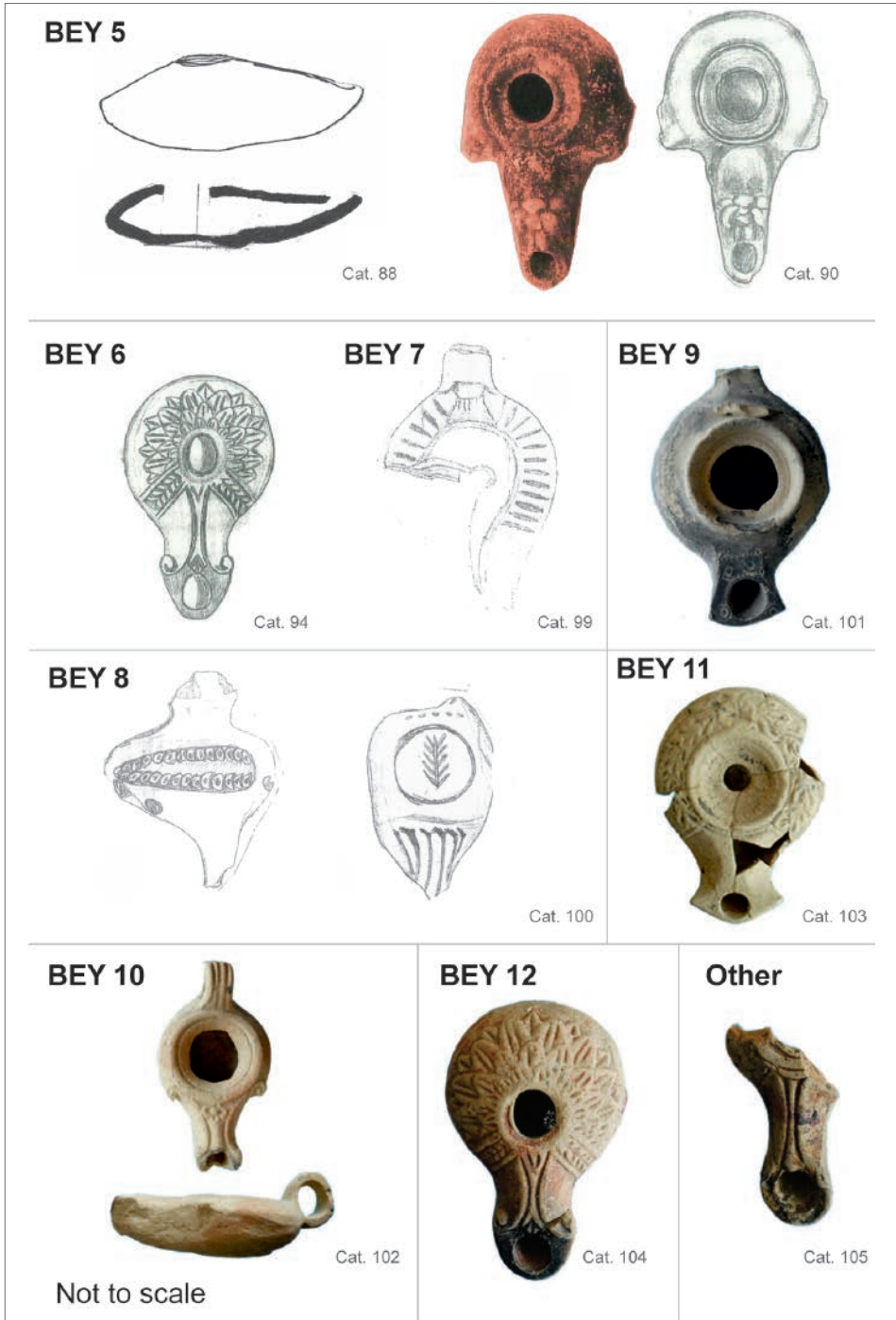


Fig. 4. Hellenistic moldmade lamps from site BEY 004: types BEY 5 to BEY 12 (Photos M. Masri; drawing L. Zouhairi; digital processing N. Tannir)

	<p>TYPE BEY 9</p> <p><i>Type and parallels:</i> Bruneau 1965: Cat. 1832–1955; Oziol 1977: Cat. 104</p> <p>Cnidian type of lamp: wheel-made with biconical body and a slightly raised base, vertical handle, grooved lengthwise, attached to high rim around filling hole. Small ring around the handle. Short nozzle, arched tip with flaring sides. Two pellets on either side of the nozzle attachment.</p>	Second half of 2nd to first quarter of 1st century BC
101.		VE/P.112/5251/< 945>
	<p>TYPE BEY 10</p> <p><i>Type and parallels:</i> Waagé 1941: 61, Cat. 59, Fig. 75; Goldman and Jones 1950: Cat. 46; Menzel 1969: 18, Cat. 50, Fig. 9 (from Saqqara)</p> <p>Molded lamps related to the Ephesian type, globular in profile; long, flattened nozzle; loop handle with five grooves; flat surface on top of nozzle bounded by two opposed volutes; filling hole surrounded by circular relief bands</p>	Last quarter of 2nd century–first quarter of 1st century BC
102.	<p>Complete</p> <p>L. 11.2; H. 3.8; Dia. 6.0; Dia. base 3.2 cm</p> <p>Fabric white, very pure and very well baked</p> <p>Decoration: Rosette on nozzle at the junction with the band around the discus</p>	VII B/2087/<14029>
	<p>TYPE BEY 11</p> <p>Transitional type, from Hellenistic to Roman. Molded lamp, similar in type to BEY R 1, characteristic nozzle and no handle. The discus is plain, however, the decoration in the form of a leafy wreath on the shoulder.</p>	End of 1st century BC
103.	<p>Complete</p> <p>L. 8.9; H. 2.7; Dia. 6.7; Dia. base 4.0 cm</p> <p>Fabric white, very pure and very well baked, poor black slip</p>	VF/P.121/6284/<2846>
	<p>TYPE BEY 12</p>	2nd–1st century BC
104,	Moldmade lamp of biconical profile, evident seam between the upper and lower parts. Long and wide tubular nozzle resembling that element on lamps with side lugs decorated with an S-ornament; double volute on the nozzle with thunderbolt in relief between them. Alternating pointed lotus leaves in a number of rows on the body around the filling hole. Small filling hole bordered by a fairly large relief ring.	
	Other unidentified lamps	
105.–	Fragments of nozzles	III C/15107/<14093>;
108.	L. 3.5; Dia. 1.8 cm	III C/15126/<14091>;
	Fabric 10 YR 7/4 light brown	IV C/3593/<14042>;
		IV C/P.193/
		3610/<14094>;
		V C/3417/<14092>
109.–	Non-joining fragments	VI /P.211/
111.	Fabric 7.5 YR 5/1 grey, slip 5 YR 2.5/1 black (No. 109)	10794/<14148>;
		V J/P.170/9514/<14153>;
		VII C/P.162/
		3356/<14155>

4. ROMAN LAMPS

In the 1st century BC, lamps took on a new shape. The lower part resembles a circular pan, closed with a flat or slightly concave circular discus. From this form derives the highly successful Roman moldmade lamp with decorated discus presenting a huge range of geometrical, vegetal and figural motifs. The voluted lamps appeared in the 1st–2nd century AD: wider and more projecting volutes when the nozzle is angular (Vindonissa I–Corinth XXII), less prominent when it is rounded (Vindonissa IV–Corinth XXIII).

No.	Description/dimensions/fabric/decoration and discus iconography	Localization Square/SU/SF#
	<p>TYPE BEY R 1</p> <p><i>Type and parallels:</i> Loeschcke 1919: Cat. 4; Broneer 1930: Cat. 23; 1977: Cat. 23/2386; Oziol 1977: Cat. 10</p> <p>One of a large family of molded discus lamps, the most beautiful representation of which is the so-called "Corinthian" lamp (imitated in other factories). These lamps have no handle and fit in the palm of one's hand. Volutes run on either side of an angular nozzle. The filling hole pierced in the discus is of small diameter. The iconographic repertoire is extremely varied.</p>	Second half of 1st and 2nd century AD
112.	Complete lamp; peeling nozzle L. 8.8; W. 6.5; H. 2; Th. 0.3; Dia. base 3.2; discus 5 cm Fabric 10 YR 8/3 light brown, slip 7.5 YR 3/2 dark brown Decoration: Hare in profile to right	III /P.202/ 10559/<14126>
113.	Lamp restored, incomplete Fabric 10 YR 8/3 light brown, slip 2.5 YR 4/8 dark red Decoration: Same as above, but from a different mold	V /P.132/8720/<12065>
114.	Restored lamp L. 8.8; W. 6.5; H. 2; Th. 0.3; Dia. base 3.2, discus 5 cm Fabric 5 YR 6/6 orange, slip 2.5 YR 5/8 red Decoration: Vegetal trophy (uncertain)	VII B/2064/<14003>
115.	Almost complete L. 8.0; W. 6.3; H. 2.5; Th. 0.3; Dia. base 3.0; discus 5.3 cm Fabric 5 YR 6/6 orange, slip 2.5 YR 5/8 red Decoration: Same as above, made in the same mold	III G/11050/<14149>
116.	Restored lamp; discus incomplete Fabric 10 YR 8/9 light brown Decoration: Erotic scene with the Ovidian motif of <i>Venus Pendula</i>	XIII A/1822/<251>
117.	Complete except for nozzle L. 8.3; W. 7.2; H. 2.8; Th. 0.2; Dia. base 4.4; discus 5.2 cm Fabric 10 YR 8/9 light brown Decoration: Erotic scene, head-to-toe position	III G/11014/<14006>
118.	Incomplete lamp, disc decoration lost Fabric 10 YR 8/9 light brown, slip 2.5 YR 4/8 dark red	XIV S/931/<719>

119.	Fragment of body and discus L. 8.0; W. 6.2; H. 2.2; Dia. base 3.0 cm Fabric 10 YR 8/9 light brown, slip 2.5 YR 4/8 dark red Decoration: Illegible	VIII L/10267/<14141>
120.	Fragmentary (five pieces) Fabric grey, slip light brown Traces of decoration	II B/17057/<14079>
121.	Complete lamp Fabric 10 YR 8/9 light brown, slip 2.5 YR 4/8 dark red Decoration: Three concentric circles around the discus	VI C/3112/<2866>
122.	Complete lamps (a and b) L. 9.0; W. 6.4; H. 2.5; Th. 0.2 cm Fabric 10 YR 8/9 light brown, slip 2.5 YR 4/8 dark red Decoration: Leaping lion, to left	V E/5291/<3028>
123.	Discus fragment L. 7.2; W. 6.5; H. 2.4; Th. 0.2, Dia. base 4.3 cm Decoration: Horse galloping, to right	IX /P.232/ 10432/<14182>
124.	Fragment of discus Fabric 2.5 Y 8/3 pale yellow, slip 2.5 Y 2.5/ 1 black Decoration: Human figure walking to right (broken above the waist), carrying a club; an animal behind the figure	VI B/2410/<14040>
125.	Complete lamp, eroded decoration Fabric 2.5 Y 8/2 light orange, slip 2.5 Y 3/1 very dark grey Decoration: Soldier in helmet and armor, wielding sword(?) and shield(?), to left (broken below the waist)	IV C/P.193/ 3603/<14027>
126.	Four fragments (three from the same lamp) Fabric 7.5 YR 7/4 pink, slip 5 YR 4/4 brown Decoration: Similar to Cat. 125	I B/2610/<14039>
127.	Discus fragment D. 4.0 cm Fabric 10 YR 8/9 light brown Decoration: Two palm branches flanking two wreaths	XII T/16007/<721>
128.	Incomplete lamp with volutes on the nozzle L. 7.0; W. 6.0; H. 2.0 Fabric 5 YR 7/3 pink, slip 5 YR 4/8 red brown	V F F/ - /<181>
129.	Incomplete lamp with volutes on the nozzle; discus medallion lost Fabric 10 YR 8/9 light brown, slip 2.5 YR 4/8 dark red	VII K/10123/<14071>
130.	Complete lamp except for nozzle L. 7.5; W. 5.5; H. 2.4; Th. 0.4, Dia. base 3.0; discus 4.5 cm Fabric 7.5 YR 7/6 orange, slip 2.5 YR 5/8 dark red Decoration: Bird sitting on a twig	I B/2605/<14132>
131.	Complete lamp except for nozzle L. 9.0; W. 6.4; H. 2.5; Th. 0.2 cm Fabric 10 YR 8/9 light brown, slip 2.5 YR 4/8 dark red Decoration: Boar in profile, to left	IV J/ P.202/10553



Fig. 5. Roman-age lamps from site BEY 004, type BEY R1 (Photos M. Masri; drawing L. Zouhairy; digital processing N. Tannir)

132.	Incomplete lamp, restored Fabric 10 YR 7/3 light brown, slip 7.5 YR 3/3 dark brown Decoration: Clawed leg of an eagle, the rest of the bird lost	VIII L/10267/<14142>
	TYPE BEY R 2 <i>Type and parallels:</i> Broneer 1930: Cat. 22; 1977: Cat. 22/2348; Oziol 1977: Cat. 11 Variant of type BEY R 1. Regional production, probably Italian. Concentric circles frequently surrounding the discus.	1st century AD
133.	Complete. Small L. 6.8; W. 5.0; H. 2.2; Th. 0.3; Dia. base 3.0; discus 3.5 cm Fabric 10 YR 8/4 light brown, slip 2.5 YR 4/8 dark red	VII C/P.163/ 3085/<14133>
134.	Complete. Large dimensions L. 11.8; W. 8.0; H. 3.0; Th. 0.3; Dia. base 3.0; discus 5 cm Fabric 10 YR 8/4 light brown, slip 2.5 YR 4/8 dark red Decoration: Gladiator dropped to one knee, shield on the ground in front of him	V F/P.111/6381/<3013>
135.	Complete lamp, restored L. 11.4; W. 8.1; H. 3.7; Th. 0.2; Dia. base 4.3; discus 6.6 cm Fabric 10 YR 8/4 light brown, 2.5 YR 4/8 dark red Decoration: Nike in three-quarters to left, holds inscribed shield, third line legible: SPR, <i>Senatus Populusque Romanus</i> (for a parallel from the British Museum with wishes for a good year, see Bailey 1988: 19, Q 1891, Fig. 21)	XIII A/P.175/ 1894/<14007>
136.	Fragment of nozzle Fabric 2.5 Y 8/2 pale yellow, slip 7.5 YR 4/6 dark brown	IV F/P.142/ 6644/<14010>
	TYPE BEY R 3 <i>Type and parallels:</i> Loeschcke 1919: Cat. 8 Oval instead of circular, frequent volute decoration on the nozzle.	1st century AD– 2nd century AD
137.	Complete L. 8.9; W. 7.4; H. 2.4; Th. 0.4 cm Fabric 10 YR 8/3 light brown Decoration: Aphrodite in the nude, wearing a polos, standing between an amphora and a column altar with a bird perched on it	XIV S/931/<141>
138.	Complete L. 8.9; W. 7.4; H. 2.4; Th. 0.4 cm Fabric 10 YR 8/3 very pale brown Possibly from the same mould as Cat. 137	XIV T/939/<241>
	TYPE BEY R 4 <i>Type and parallels:</i> Loeschcke 1919: Cat. 5 Circular body, apparently another regional (local?) variant of BEY R 2, mediocre execution.	1st century AD
139.	Fragment of body and discus Fabric 10 YR 8/4 light brown, slip 2.5 YR 4/8 dark red Decoration: Egg-and-dart pattern on the shoulder	XIII A/1826/<255>
140.	Analogous fragment	V J/P.170/ 9520/<14130>

141.	Analogous fragment, but from a different mould	VI D/4203/<14083>
	TYPE BEY R 5 <i>Type and parallels:</i> Broneer 1930: Cat. 25; 1977: Cat. 25/2458; Howland 1958: Cat. 176 Small-size lamps, with U-shaped nozzle; discus often plain, sometimes decorated with a rosette or figural motifs	1st–2nd century AD
142.	Concave discus, surrounded by a ring between two grooves; medallion decorated with a rosette. U-shaped nozzle. Pierced trifid handle Fabric 10 YR 8/3 light brown	VI A/P.12/1187/<722>
143.	Almost complete, restored; two filling holes L. 8.0; W. 6.2; H. 2.2; Th. 0.3, Dia. base 3 cm Fabric 10 YR 8/9 light brown, slip 2.5 YR 4/8 dark red Decoration: Bird	IV G/P.146/ 7961/<14135>
	TYPE BEY R 6 <i>Type and parallels:</i> Bailey 1988: 73, Q 2413, Fig. 92; 13, Q 2845, Fig. 104 Series with rounded nozzles and without volutes, decoration on the shoulder	2nd century AD
144.	Fragment Fabric 2.5 Y 8/3 pale yellow, slip 2.5 YR 2.5/1 dark red Decoration: Palmettes	V K /P.231/ 10239/<14095>
145.	Fragment of body L. 8.9; W. 7.4; H. 2.4; Th. 0.4 cm Fabric 10 YR 8/3 light brown Decoration: Dolphin (part preserved)	XIV S/930/<267>
146.	Decoration: Dolphins with an anchor	III J/P.204/ 10882/<14085>
147.	Body fragment Fabric 2.5 Y 8/3 pale yellow	V C/3282/<14097>
	TYPE BEY R 7 <i>Type and parallels:</i> Broneer 1930: Cat. 21; Oziol 1977: Cat. 12 Voluted <i>bilychnoi</i> derived from bronze lamp models, high quality of execution. Triangular handle attachment in the form of a relief acanthus leaf. Discus circumscribed with concentric grooves, either plain or decorated with a frieze around the filling hole	1st century AD
148.	Complete lamp, restored Fabric 7.5 YR 7/6 orange, slip 5 YR 4/6 orange Decoration: Handle attachment decorated with a palmette; scrolling vegetal decoration on the discus; volutes	V G/P.105/ 7621/<12067>
149.	Lamp complete, restored Fabric 7.5 YR 7/6 orange, slip 5 YR 4/6 orange Decoration: Handle attachment in the form of a relief acanthus leaf; concentric rings around the discus; volutes	V G/P.105/ 7621/<12068>

150.	Lamp complete, restored Fabric 7.5 YR 7/6 orange, slip 5 YR 4/6 orange Decoration: Reflector handle in the shape of an acanthus leaf; discus plain	V G/ >
151.	Restored lamp. Two nozzles, pierced handle L. 15.0; W. 7.5; H. 4.2; Th. 0.5, Dia. base 5.2 cm Fabric 7.5 YR 7/6 orange yellowish, slip 5 YR 4/6 orange Decoration: Horserider	VI F/6141/<14181>
152.	Fragment of a reflector handle decorated with a palmette in relief	XII B/1724
153.	Fragment of a reflector handle with striated decoration; mediocre execution	XII B/2716
TYPE BEY R 8 <i>Type and parallels:</i> Loeshchke 1919: Type VIII; Oziol 1977: 20, Cat. 13 Circular body gently terminating in a rounded nozzle. Relief band around a plain discus.		Second half of 1st–2nd century AD
154.	Complete, nozzle part of the shoulder L. 9.8; W. 6.8; H. 2.8; Th. 0.3; Dia. base 4.3; discus 4.8 cm Fabric 7.5 YR 7/6 orange yellow, slip 5 YR 4/6 orange	VIII L/10267/<14143>
TYPE BEY R 9 <i>Type and parallels:</i> Oziol and Pouilloux 1969: Cat. 14; Bailey 1980: Cat. 131–138 Uneven quality, some possibly copies of imported models. Pierced vertical loop handle. Raised surface around wick hole. Deep discus surrounded by a band of egg-and-dart pattern; rosette decoration on the discus		Mid 1st–3rd century AD
155.	Fragment of body and discus Fabric 10 YR 8/3 light brown, slip 2.5 YR 4/8 dark red Decoration: Rosette	V K/P.2/10265/<14111>
156.	Complete L. 19.0; W. 11.2; H. 4.7; Th. 0.3/0.6 cm Fabric 10 YR 8/3 light brown, slip 2.5 YR 4/8 dark red Decoration: Rosette with swirling petals	V G/P.134/7097/<2738>
157.	Fabric 10 YR 8/3 light brown, slip 2.5 YR 4/8 dark red Decoration: Central flower motif	VI G/7164/<2948>
158.	Fragment of nozzle and medallion Fabric 2.5 Y 8/2 pale yellow, slip 2.5 Y 4/1 dark grey Decoration: Fragmentary rosette	IV C/P.193/ 3604/<14052>
159.	Discus fragment with rosette decoration Fabric 10 YR 8/3 light brown, slip 2.5 YR 4/8 dark red	VI G/7164/<3008>
160.	Discus fragment Fabric 2.5 Y 8/3 pale yellow, slip 7.5 YR 4/6 Decoration: Either a rosette or a Saint Jacques shell; band of ovules around the discus	I D/14904/<14044>

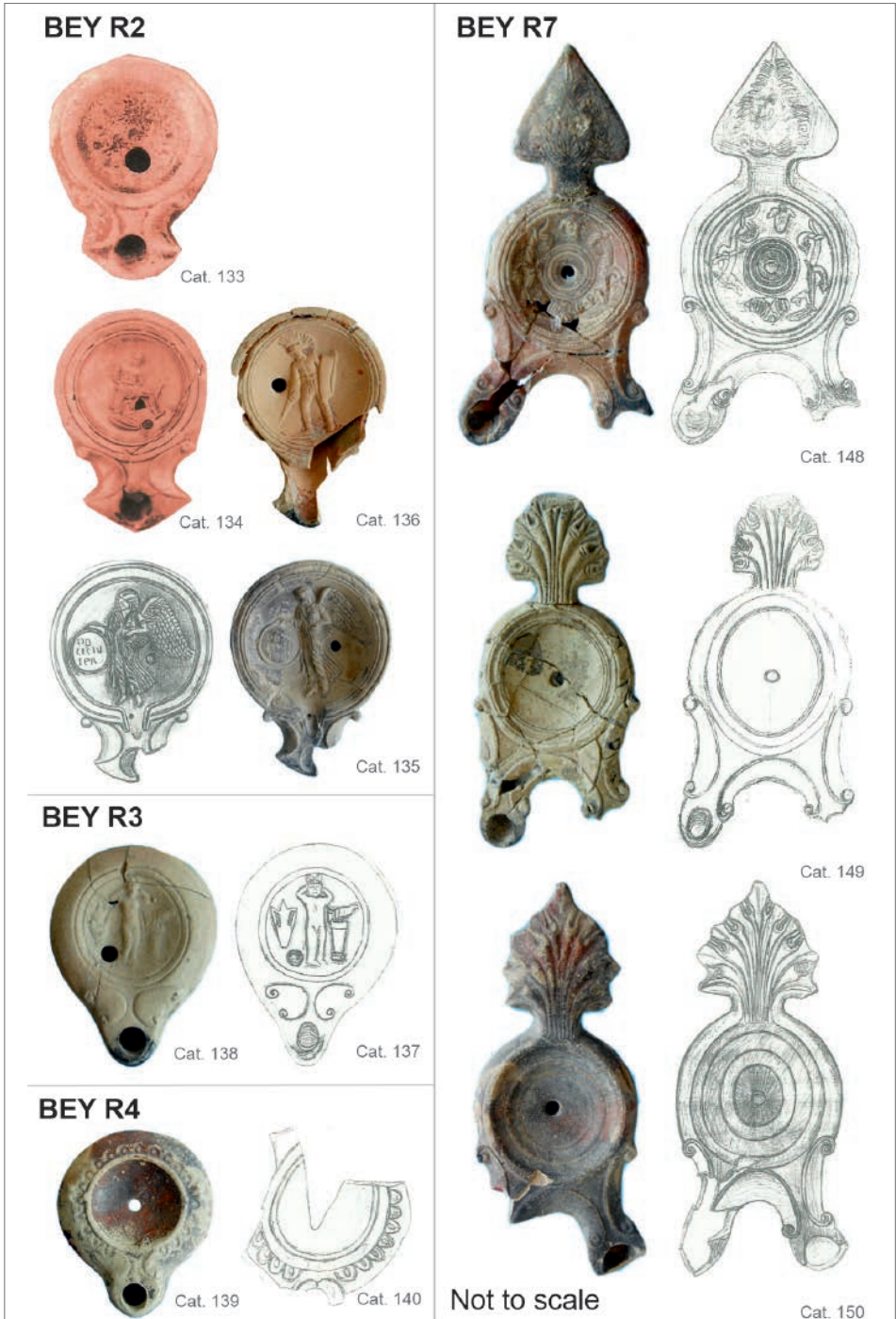


Fig. 6. Roman-age lamps from site BEY 004, types BEY R2, R3, R4 and R7 (Photos M. Masri; drawing L. Zouhairy; digital processing N. Tannir)

TYPE BEY R 10		First half to mid 2nd century AD
<i>Type and parallels:</i> Bruneau 1965: Types XV/XVI		
Multi-nozzled lamps in <i>corona</i> form, the tubular body often decorated (fine examples from the Delos collection iwith variants of the type).		
161.	Complete lamp, restored L. 11; W. 9.0; H. 2.5; Th. 0.3, Dia. base 5.4 cm Fabric 10 YR 8/4 light brown	VI H/P.133/ 8312/<14123>
162.	Analogous example Fabric 5 YR 5/1 grey	IV G/7850/<705>
163.	Fragment of a large ring-shaped multi-nozzled lamp Fabric 10 YR 8/4 light brown Decoration: Laurel wreath on the body, a frequent motif on relief bowls from Pergamene workshops (Laumonnier 1977)	III F F/12055/<14150>
TYPE BEY R 11		Last quarter of 1st– first quarter of 2nd century AD
<i>Type and parallels:</i> Loeschcke V		
164.	Lamp stand Fabric 2.5 YR 5/8 red, slip 2.5 YR 5/8 red Decoration: Rectangular shape, open on one side. Scrolling ivy leaf on one surface; inscribed <i>tabula ansata</i> on the other surface, reading: QE OIS L A B E ----- O N.	–
165.	Four column fragments (or support?) apparently from a base like Cat. 164 Fabric 10 YR 8/4 light brown, no traces of slip	XIII A/ P.175/1894
TYPE BEY R 12		1st to end of 2nd century AD
166.	Complete Fine clay, well-baked but not slipped; traces of burning; simple volutes on the nozzle	VE/ P.113/5287/<2541>
TYPE BEY R 13		1st century AD
167.	Moldmade lamp; nozzle and upper part similar to those of type BEY R 4 Decoration: erotic scene, male and female in a sexual act on a cushioned bed	
Unidentified fragments		1st century AD
168.	Discus fragment Dia. 5.1; Th. 0.5 cm Fabric 7.5 YR 7/4 pink, slip 2.5 YR 4/8 dark red Decoration: Face above rosette	VII C/P.160/3015
169.	Fragment of incised handle	V F F/6561/<826>
170.	Base fragment, incuse inscription: M A Fabric 10 YR 8/3 light brown	V K K/-/<14069>

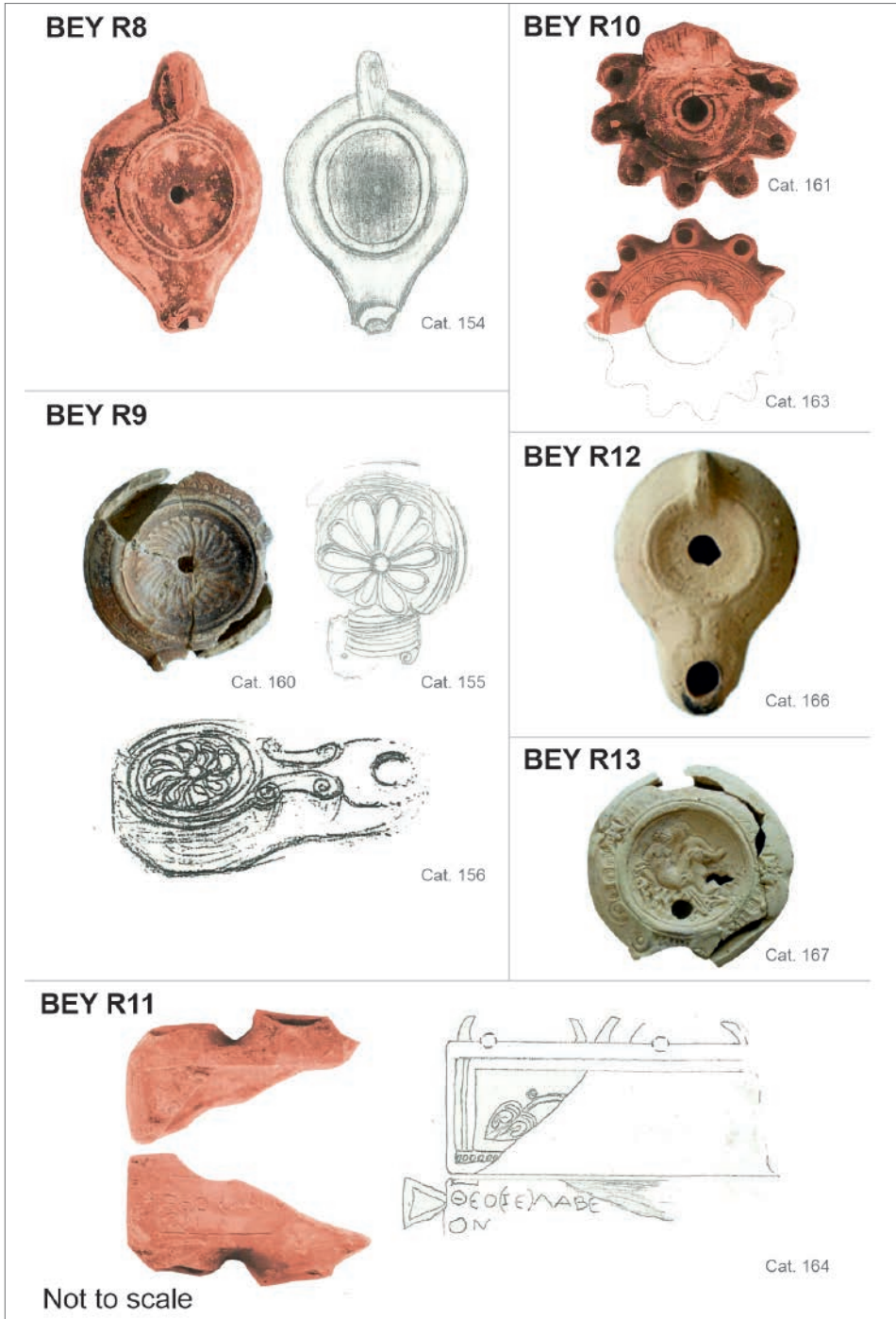


Fig. 7. Roman-age lamps from site BEY 004, types BEY R8 to R13 (Photos M. Masri; drawing L. Zouhairy; digital processing N. Tannir)

171.	Fragment; floral motif Fabric 10 YR 8/3 light brown	V III L/10250
172.	<i>Pelta</i> -shaped triangular handle attachment Fabric 7.5 YR 7/4 pink, slip 2.5 YR 4/8 dark red	IV J/P.202/10558
173.	Handle Fabric 7.5 YR 7/4 pink, slip 5 YR 4/6 orange	XII B/1724
174.	Ring handle with incised decoration of chevrons Fabric 5 Y 8/3 pale yellow, slip 2.5Y3/1 dark grey	V H H/-/<2711>
175.	Discus fragment Fabric 10 YR 8/3 light brown, slip 10 YR 3/1 dark grey Decoration: Ram or goat in profile, to left	VII B/2064
176.	Fabric 5 Y 6/6 orange, slip 10 YR 5/6 dark red Decoration: Deer bounding to right	VII C/3062
177.	Discus fragment Decoration: Erotic scene depicting <i>coitus à tergo</i>	V G/P.105/ 7620/<14144>
178.	Five fragments of the same lamp Decoration: Vegetal	XII G/14152/<14136>
179.	Three fragments of the same lamp Decoration: Traces of a figure of Nike	V J/P.131/ 9403/<14128>
180.	Two base fragments; incised letters: T O and R Fabric 10 YR 7/4 light brown	IV III C/P.193/ 3604/<14057>

5. BYZANTINE LAMPS

No.	Description/dimensions/fabric/decoration and discus iconography	Localization Square/SU/SF#
TYPE BEY B 1		4th century AD
<i>Type and parallels:</i> Ennabli 1970		
181.	Complete; small oval shape; bridge handle to discus with filling hole L. 6 cm Fabric 10 YR 7/6 yellow	VI E/5026/<8>
TYPE BEY B 2		End of 3rd–6th century AD
<i>Type and parallels:</i> Broneer 1930: Cat. 31; 1977: Cat. 31/3146		
The most widespread type of Byzantine lamp, originating apparently from North Africa. It resembles a boat in shape. The oval central depression around a large filling hole opens onto the nozzle. Shoulder decorated with stylized geometrical and vegetal motifs, sometimes with Christian symbols. Small knob handle		
182.	L. 12; W. 8.5; H. 3.1 cm Fabric 10 YR 7/4 light brown Decoration: Geometrical motifs, circles and wavy lines on the shoulder	IV G/7903/<14004>

183.	Fabric 5 YR 4/3 reddish brown Decoration: Chevrons and dots on the shoulder	IV E/5617/<138>
184.	Fabric reddish brown Decoration: Diamond with concave sides around filling hole and small dots in the arches. Oblique notches in a double row on the shoulder and body	IV F/P.142/6542/<136>
185.	Mediocre execution L. 7.8; W. 5.2; H. 2.5 cm Fabric 10 YR 7/4 light brown Decoration: Geometrical motifs, small dots	-
186.	Complete L. 7.8; W. 5.2; H. 2.5 cm Fabric 10 YR 7/4 light brown Decoration: Rosette, herringbone and diamond motifs	V H H/2243/-
187.	Complete lamp L. 7.8; W. 5.2; H. 2.5 cm Fabric 10 YR 7/4 light brown Decoration: Geometrical patterns, triangles	VII C/P.162/3050/-
188.	Complete L. 7.8; W. 5.2; H. 2.5 cm Fabric 10 YR 7/4 light brown Decoration: Chevrons, circles, dots, rosette around filling hole	V G G/7505/<3015>
189.	Complete L. 8.8; H. 1.6/2.5 cm Fabric 7.5 YR 7/6 orange Decoration: Chevrons	IV E/5621/<2973>
190.	Complete L. 7.8; W. 5.2; H. 2.5 cm Fabric 10 YR 7/4 light brown Decoration: Double row of notches	XIII B/-/-
191.	Fragment of body, shoulder decorated with floral motifs; illegible Greek inscription in the central discus	V F F/61/<925>
192.	Fragment Decoration: Geometrical motifs, flowers, a cross and dots	V G G/77/<1318>
193.	Fragment Decoration: Wavy lines and a rosette around filling hole	V G G/75/<316>
194.	Base with palm branch mark	VII C/P.160/3015
195.	Fragment of body Fabric 10 YR 8/3 light brown Decoration: Rosettes and triangles on the shoulder; central rosette	V F F/-/<1298>
196.	Fragment Decoration: Floral motifs	V F F/125/<1340>
197.	Fragment of body Decoration: Cross and scrolling motif on the shoulder	V-VI F/61/<771>
198.	Decoration: Scrolling motif	V F F/6205/<1286>
199.	Decoration: Scrolling motif	VI H/3/<23>

200.	Fragment of body Decoration: Central rosette and oblique petals on the shoulder	V G G/7505/<2972>
201.	Decoration: Floral and diamond motifs	V F F/6278/<1174>
202.	Decoration: Stylized ivy scroll on the shoulder; central rosette	V F F/61/<779>
203.	Decoration: Stylized scrolling motifs, notches on shoulder	V H H/8004/<2845>
204.	Decoration: Diamonds on the shoulder; flowering central rosette	V G G/7057/-
205.	Decoration: Deer	V G G/7/<784>
206.	Decoration: Fragments of shoulder with scrolling motif	V C/3313/<14076>
207.- 210.	Fabric 7.5 YR 7/6 orange Decoration: Floral motifs	VI G/7121/<2965>; V G G/7505/<2971>; V G G/7505/<2970>
211.	Base with dots and palmette	III E/13008/-
212.	Base with palmette	VII C/P.160/3015/-
213.	Complete Fabric 2.5 Y 7/4 pale yellow Decoration: Garlands	V G G/7017/<1036>
214.	Fabric 2.5 Y 7/4 pale yellow Decoration: Small circles between flowers	VI H/8036/<1263>
215.	Base fragment Fabric 10 YR 8/3 pale yellow Decoration: Palmette	V H H/8803/<140>
216.	Fabric 10 YR 8/3 light brown Decoration: Crosses and geometric patterns	VI G/7121/<446>
217.	Fabric 7.5 YR 7/6 orange Decoration: Geometrical patterns	V G G/7505/<2972>
218.	Fabric 10 YR 8/3 light brown Decoration: Four hearts in the spaces drawn by the intersection of two axes	V G G/7052/<1312>
219.	Complete lamp Fabric 10 YR 8/3 light brown Decoration: Plaiting or garland on the shoulders	VI F/6084/<1261>
220.	Complete lamp Fabric 5 YR 4/3 reddish brown Decoration: Leaves and Maltese crosses	VI G/7128/<1007>
221.	Decoration: Grooves and circles on the shoulders	VI B/2410/<14036>
222.	Fragment of a lamp resembling African Red Slip	VI B/8501/<14098>
223.	Fabric 10 YR 8/3 very pale brown Decoration: Braid surrounded by a circle on the bottom, lines on the nozzle	VI C/P.161/3156/<333>
224.	Fabric 2.5 Y 7/4 pale yellow Decoration: Circles	VII H/8120/<1262>
225.- 306.	29 fragments with floral decoration, 47 with geometrical decoration, and six with animal iconography on the discus	



Fig. 8. Byzantine lamps from site BEY 004 (Photos M. Masri; drawing L. Zouhairi; digital processing N. Tannir)

TYPE BEY B 3		3rd–5th century AD
<i>Type and parallels:</i> Oziol 1977: Group 5		
307.	Channel on nozzle joining medallion and wick hole. Base bordered by a slight raised band. Fabric 2.5 Y 7/4 pale yellow Decoration: Flowers around filling hole	VI C/3112/<135>
TYPE BEY B 4		6th century AD
<i>Type and parallels:</i> Oziol 1977: Group 5		
Circular flattened body, the nozzle integrated with it; no handle or foot. It has the same characteristics as BEY B 1, but resembles Roman lamps. Group of 10 lamps (not catalogued) was found stacked one on top of the other, together with two lamps of Type Bey B 2 (Square IV G/7903).		
308.	Complete lamp L. 9.6; W. 7.9; H. 2.5; Dia. base 4.9; discus 5 cm Fabric 2.5Y7/4 pale yellow Decoration: Incised rays on the shoulder; on the discus, inscription in Greek: LIAP / EA OYΠ / EA CE / ΦVCIC Only the last line (FUSIS) is read. The second line could be ELPIS.	IV G/7903/<14005>
309.	Decoration: Elephant trunks	VI K/-/-
TYPE BEY B 5		2nd–3rd century AD/ late Roman
<i>Type and parallels:</i> Oziol 1977: series I		
310.	Oval lamp with nozzle integrated into the body; handle reduced to a knob; medallion surrounded by a continuous groove; large filling hole Fabric 2.5 YR 7/4 pale yellow Decoration: Series of intertwined semicircles around discus	VI C/3178/<822>
TYPE BEY B 6		2nd–3rd century AD
<i>Type and parallels:</i> Oziol 1977: Type 14		
Circular lamp, with pierced vertical handle; slightly projecting rounded nozzle; circular relief band leaving place for a frieze in relief around the small discus.		
311.	Complete except for nozzle. Circular body with filling hole surrounded by a scrolling grapevine with corymbs. Letter E incised on the base	IV G/P.146/ 7961/<14135>
312.	Decoration: diamonds	–
UNIDENTIFIED		
313.	Fabric 4/N grey, slip 10 YR 6/4 yellow Decoration: Fish	III J/P.204/10882/<14086>
314.	Fabric 10 YR 4/6 red, Red Slip type	VI B/2501/<14098>
315.	Fabric: red, North African lamp(?) Decoration: Vegetal	V J J/20/<1155>
316.	Fabric 2.5 Y 8/2 pale yellow	VII E/5831/<14078>

317.- 325.	Nine fragments (unidentified and not catalogued)	VI G/7164/<1220> V F F/6261/<1170> VI G/7146/<1016> V F F/6261/<1005> VI G/7121/<936> V C/3282/<14097> VI G/7171/<1232> XIV S/925/<329>
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6. ISLAMIC LAMPS

The closed oval lamps are a descendant of the Byzantine lamps and are surely the oldest form of Islamic lamps. The stamped relief decoration of the upper parts is undoubtedly of Islamic nature. (typically Mamluk motifs). The most numerous lamps are circular cup-shaped lamps with a tubular recipient in the center. These lamps are sometimes decorated and glazed like the so-called Mamluk ceramics of the 14th century.

No.	Description/dimensions/fabric/decoration and discus iconography	Localization Square/SU/SF#
	TYPE BEY I 1 Form, structure and decoration are similar to Byzantine lamps. Oval body, channel connecting the filling hole with the wick hole. Small stub handle. Nozzle integrated into the body. Shoulder with geometric decoration.	4th century AD
326.	Fabric 5 YR 4/3 brownish Decoration: Circles with relief dots separated by a forked motif. Six-arm star on base	VII C/3358/<14134>
327.	Lamp shape like Cat. 326 Fabric 5 YR 4/3 brownish Decoration: Wavy lines and incised dots. Similar star on base	VII D/4364/-
328.	Lamp shape like Cat. 326 Fabric 5 YR 4/3 brownish Decoration: Branches and herringbone motifs executed negligently. Similar star on base	VII D/436/-
329.	Lamp shape like Cat. 326 Fabric 10 YR 4/1 dark grey Decoration: Incised lines and bands	VII C/ P.160/3012
330.	Fabric 5 YR 4/3 brownish Decoration: Lined festoons. Very wide channel.	XIII B/-/-
331.	Fabric 10 R 4/8 red No decoration	III E/-/-
332.	Fabric 10 R 4/1 grey Decoration: Palmettes	IV F F/6539/<2439>

TYPE BEY I 2		8th–9th century AD
333.	Almond-shaped. Deep channel connecting filling hole to nozzle. Mediocre execution Fabric 5 YR 4/4 brownish Decoration: Lines and palmette design	IV G/-/<1206>
TYPE BEY I 3		8th century AD
334.	Particularly rough series, more elongated shape Fabric 7.5 YR 7/4 pink Decoration: Zigzag and incised circles	IV H/8861/-
TYPE BEY I 4		8th–9th century AD
Cordiform body. Tape handle forming bridge to filling hole.		
335.	Fabric 5 YR 4/3 brownish	IV A/-/<342>
336.	Analogous fragment	VII A/1044/<598>
337.	Fabric 5 YR 4/3 brownish, green glaze	VI B/2127/<1164>
338.	Fabric 5 YR 4/3 brownish	VIII A/1046/<344>
339.	Fabric 5 YR 4/3 orange	V B B/2217/<343>
340.	Fabric 5 YR 4/3 orange, green glaze	XIV S/925/<331>
341.	Fabric 5 YR 4/3 brownish	IX C/-/<301>
342.	Base fragment L. 9.0; H. 3.5; Dia. 4.3; base 4.0; filling hole 2.5 cm Fabric 2.5 YR 4/8 dark red, green glaze	IV A/1359/<14032>
TYPE BEY I 5		8th–9th century AD
Similar form to the BEY I 4 type with a more rounded shape		
343.– 347.	Fabric 5 YR 4/3 brownish	VI E/-/<346>; V S/ P.19/247/<14063>; V S/ P.19/247/<14064>; V S/ P.19/247/<14065>; V S/ P.19/247/<14066>
348.– 351.	Fabric 5 YR 4/3 orange	III F F/12024/<14107>; III F F/12024/<14108>; V S/ P.19/247/<14067>; V S/ P.19/247/<14068>;
352.	Fabric 5 YR 4/4 orange, glaze 7.5 YR dark brown	IV S/ P.21/949/<14072>
353.– 354.	Fabric 2.5 YR 4/6 dark red	VI D/4203/<14075>; VII C/3099/<14119>
355.– 356.	Fabric 5 YR 4/3 dark brown	III F F/12024/<14110>; III F F/12024/<14109>

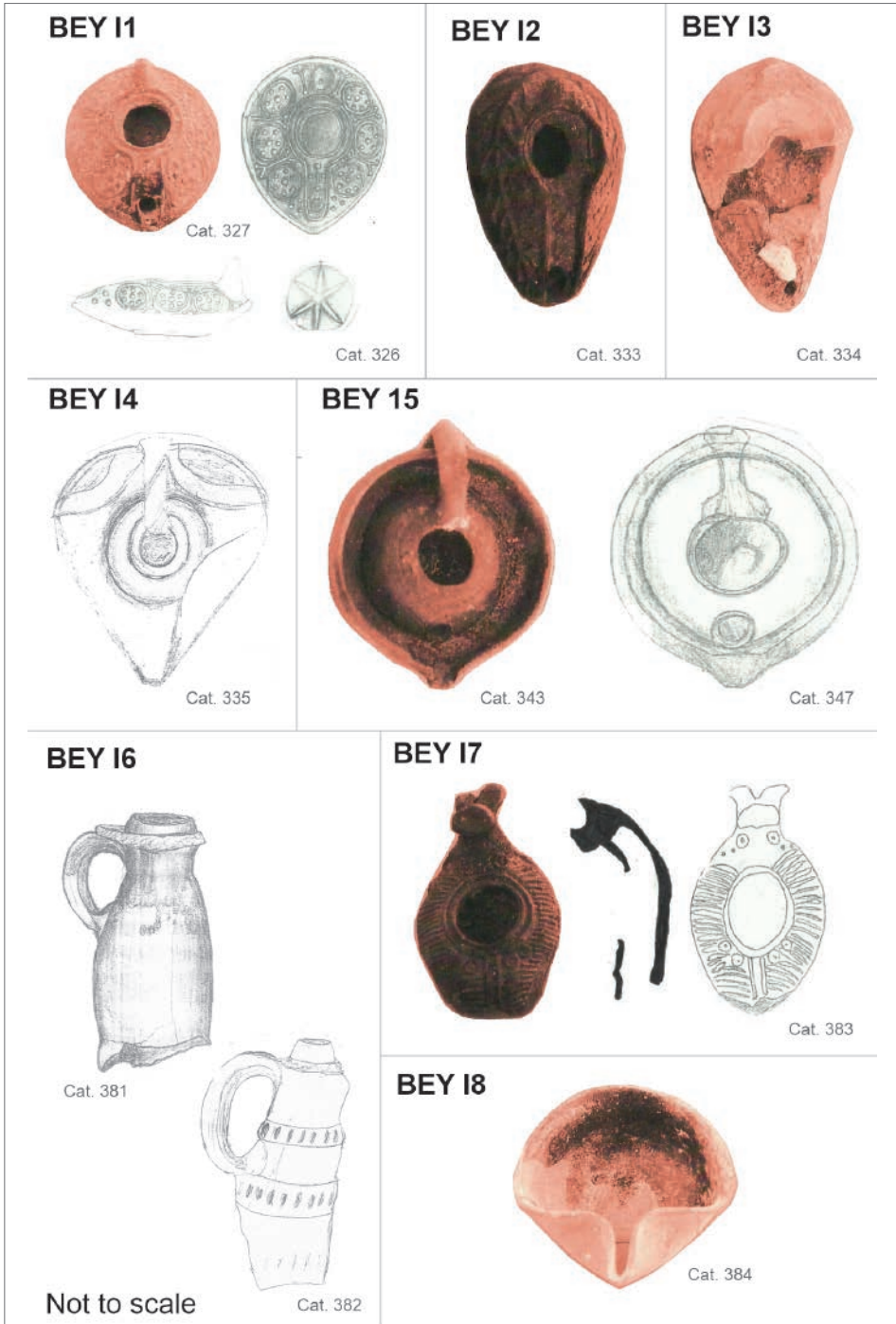


Fig. 9. Islamic lamps from site BEY 004 (Photos M. Masri; drawing L. Zouhairy; digital processing N. Tannir)

357.-	Similar fragments	II A/1516/<2968>
380.	Fabric 5 YR 4/3 reddish brown	II A/1516/<2969> III C/P.186/15099 IV S/303/<3016> V D D/-/<359> V H H/8718/<407> VI A/P.23/1106/<695> VI A/1144/<2967> VI A/1171/<2994> VI D/-/<345> VI E/5043/<621> VII A/1043/<405> VII A/1044/<604> VII S/-/<2966> VIII A/20016/<620> VIII A/20064/<465> VIII A-VIII S/20015 XIII A/1824/<355> XIV S/925/<650> XIV S/925/<651>
TYPE BEY I 6		8th century AD
Jug-shaped lamps, with tape handle and projecting orifice cup		
381.	Fabric 5 YR 4/3 orange Decoration: Irregularly arranged small circles, impressed	VII A/1044/<787>
382.	Fabric 2.5 YR 4/4 dark red, slip 2.5 YR 2.5/3 dark red Decoration: Incisions in two registers	-/-/<14156>
TYPE BEY I 7		8th–9th century AD
<i>Type and parallels:</i> al-Khouly 2001: 193–196 In the form of a fish, impressed rays, dots and lines, fish-tailed handle.		
383.	Fabric pink, slip dark red	VII F/6862/-
TYPE BEY I 8		Uncertain
Open lamp, a distant imitation of Canaanite lamps; 25 fragments of the type found in Islamic-age contexts		
384.	Fabric pink, slip dark red	-

OBSERVATIONS ON THE BEY 004 SITE LAMPS

The following are some general observations adding to the information already provided in the catalog headings.

1. Despite the fact that the urban contexts are not always identifiable, the series testify, through their sequence, to

the continuity of site occupation from the Persian to the modern periods.

2. Apart from a few Hellenistic and Roman imported examples (Eros-decorated lamps and handle-reflector lamps imitating bronze lamp models),

the execution quality is quite mediocre. Most of the Roman lamps with figural decoration on the discus, representing the Corinthian tradition, come out of worn moulds, sometimes roughly redone. The products were for the most part inexpensive low-grade pieces. Considering that in Delos, for example, the quality of the lamps found in the more modest houses was not effectively worse than that of the specimens from the rich residences, one could wonder whether the standard present in Beirut, assuming it is not simply an illusion resulting from the actual sample from these excavations, characterizes the habitation of this urban district in Beirut. The situation is all the more surprising when one remembers that Delos, a commercial hub, supplied most of the eastern Mediterranean sites with ceramic products, which should theoretically include pottery lamps as well. Beirut should have fitted the rule all the more, because the Establishment of the Posidoniastes, which was the residence of Berytian shipowners on the island of Apollo, guaranteed good and sound relations.

Interestingly, there are no Attic products in this assemblage. Not one lamp, like the finely made examples signed by the potter Ariston (Bruneau 1965: Type 6), are to be found in this collection. Indeed, signed lamps are entirely missing from the Hellenistic group.

3. Thanks to the demonstrated continuity of the occupation of the BEY 004 site, one can easily observe the extensive borrowing from Byzantine

products, in form and decoration, that craftsmen working in the Islamic period presented, even if from a technological point of view, their work did not come up to par. Motifs that had been molded previously were now incised freehand without much attention to the execution of floral or geometric details or the composition of the decoration.

4. The iconographic repertoire, whether animal, erotic or military, is obviously the result of chance discoveries and has no local significance. The same motifs are found in most collections of antique lamps. Mythological figures, such as Eros, Nike and Aphrodite, are rare, although the latter in particular could have been recognized locally as the ancient Phoenician and Syrian goddess Astarte.

Finally, even in the face of the mass of imperial Roman molded lamps and the Byzantine devices (they make up nearly half of the material) and the less numerous, but still noticeable group of imported Hellenistic lamps, one must note the Berytians own effort in this respect. Through the Hellenistic period, regardless of whether they were under Egyptian or Persian domination and whether the trade with Greece was flourishing or not, the Beirut potters produced lamps, whether their own designs or imitations, in a poorly refined brownish orange fabric, while importing also the white-clay lamps from Sidon. Then, in Roman times, like people all over the Mediterranean, they imported and copied the molded lamps from Italy and other major lamp-producing centers of the Roman world.

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