

**ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΠΕΡΙΦΕΡΕΙΑ ΠΕΛΟΠΟΝΝΗΣΟΥ
ΓΕΝΙΚΗ ΔΙΕΥΘΥΝΣΗ ΑΝΑΠΤΥΞΙΑΚΟΥ
ΠΡΟΓΡΑΜΜΑΤΙΣΜΟΥ ΠΕΡΙΒΑΛΛΟΝΤΟΣ ΚΑΙ ΥΠΟΔΟΜΩΝ
ΔΙΕΥΘΥΝΣΗ ΤΕΧΝΙΚΩΝ ΕΡΓΩΝ**

ΕΡΓΟ: "Παροχή Υπηρεσιών Τεχνικού Συμβούλου στη Διεύθυνση Τεχνικών Έργων
έδρας της Περιφέρειας Πελοποννήσου"
"ΜΕΛΕΤΗ ΑΝΑΠΛΑΣΗΣ - ΑΝΑΔΕΙΞΗΣ ΤΗΣ ΠΛΑΤΕΙΑΣ ΚΑΠΟΔΙΣΤΡΙΟΥ ΣΤΑ
ΦΙΛΙΑΤΡΑ ΔΗΜΟΥ ΤΡΙΦΥΛΙΑΣ"

ΘΕΣΗ: **ΦΙΛΙΑΤΡΑ**

ΜΕΛΕΤΗΤΗΣ:



«ΜΟΡΙΑΣ Α.Ε. - Α.Ο.Τ.Α.»

ΑΝΑΠΤΥΞΙΑΚΟΣ ΟΡΓΑΝΙΣΜΟΣ ΤΟΠΙΚΗΣ ΑΥΤΟΔΙΟΙΚΗΣΗΣ

Δ/ση: Ναυπλίου27, Τ.Κ 22132 Τρίπολη

Τηλ.: 2710-224200,01 , e-mail: info@morias-aota.gr

ΜΕΛΕΤΗ: ΦΩΤΙΣΜΟΥ - ΤΕΥΧΟΣ Β' - ΦΩΤΟΤΕΧΝΙΚΗ ΜΕΛΕΤΗ

ΘΕΜΑ ΣΧΕΔΙΟΥ:

ΑΡ. ΣΧΕΔΙΟΥ:

ΚΛΙΜΑΚΑ:

ΧΡΟΝΟΣ ΜΕΛΕΤΗΣ: ΙΟΥΝΙΟΣ 2023

ΣΥΝΤΑΚΤΕΣ : ΕΥΑΓΓΕΛΟΣ ΜΑΡΓΙΟΛΑΚΗΣ

ΕΛΕΓΧΘΗΚΕ:

το παρόν σχέδιο συνοδεύει το με αριθ.

ΥΠ.ΠΟ.Α/ΥΝΕΜ/ΕΔΕΠΝΙ

475578/3-10-2023

Πρόεδρος της ΥΠΗΡΕΣΙΑΣ ΝΕΩΤΕΡΩΝ ΜΝΗΜΕΙΩΝ
& ΤΕΧΝΙΚΩΝ ΕΡΓΩΝ ΔΥΤΙΚΗΣ ΕΛΛΑΔΟΣ
ΠΕΛΟΠΟΝΝΗΣΟΥ & ΝΟΤ. ΙΟΝΙΟΥ

ΘΕΩΡΗΘΗΚΕ:

Ο Διευθύνων Σύμβουλος

ΝΙΚΟΛΑΟΣ ΦΟΙΦΑΣ

ΕΓΚΡΙΣΗ ΜΕΛΕΤΗΣ:

ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ

Installation :

Project number : 02911

Customer :

Processed by : LUUN

Date : 09.06.2023

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
 Installation :
 Project number : 02911
 Date : 09.06.2023

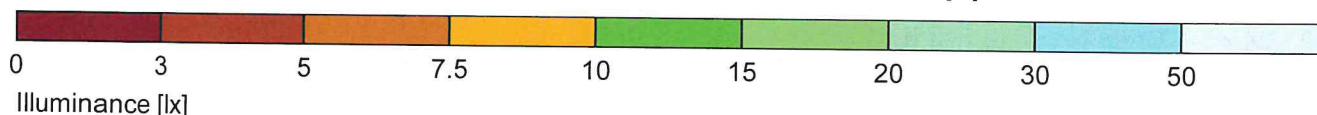
1 ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.1 Result overview, ΟΔΟΣ ΘΕΟΔΩΡΑΚΟΠΟΥΛΟΥ



-48 -28 -8 12 32 52 72 92 112 132 152 x [m]



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux	512324 lm
Total power	4043.6 W
Total power per area (17096.49 m ²)	0.24 W/m ²

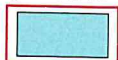
Illuminance

Average illuminance	\bar{E}_m	42.4 lx
Minimum illuminance	E_{min}	26.7 lx
Maximum illuminance	E_{max}	61.4 lx
Uniformity U_o	E_{min}/\bar{E}_m	1:1.59 (0.63)

Type No. \ Make

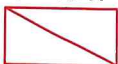
iGuzzini illuminazione S.p.A/Lab/Ver. 10/21

3 16 x



Order No. : !EQ27
 Luminaire name : Street EQ27: ST1 optic - Warm White - φ 46-60-76mm - 83.4W
 11810lm - 3000K
 Equipment : 1 x LED / 77W 83.4 W / 11810 lm

4 16 x










Order No. : !EQ57
 Luminaire name : Street EQ57: A60 optic - Warm White - φ 46-60-76mm - 88.4W
 12120lm - 3000K
 Equipment : 1 x LED / 82W 88.4 W / 12120 lm

Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
Installation :
Project number : 02911
Date : 09.06.2023

1 ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.1 Result overview, ΟΔΟΣ ΘΕΟΔΩΡΑΚΟΠΟΥΛΟΥ

- Platek s.r.l.**
- 5 4 x  Order No. : 8474318
Luminaire name : STEEL 200 Proiettore 9 LED (15W - 3000K) Wide - 24V DC
Equipment : 1 x LED 15 W / 1140 lm
- 6 8 x  Order No. : 8475118
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Wide - 24V DC
Equipment : 1 x LED 5.9 W / 440 lm
- 7 4 x  Order No. : 8475113
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Medium - 24V D
C
Equipment : 1 x LED 5.9 W / 435 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 02/20**
- 8 18 x  Order No. : !E001+X483
Luminaire name : Twilight E001+X483: 20.1W 2260lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 17W 20.1 W / 1990 lm
- 9 24 x  Order No. : !E013+X483
Luminaire name : Twilight E013+X483: 30.5W 3600lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 27W 30.5 W / 3160 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 04/18**
- 10 2 x  Order No. : !EI03
Luminaire name : Palco EI03: 16W 2220lm - 3000K - Refractor for elliptical
distribution - IP66
Equipment : 1 x LED / 16W 18.3 W / 2220 lm
- Nobile Illuminazione**
- 11 4 x  Order No. : F3-M-3K-A
Luminaire name : F3-M-3K-A
Equipment : 1 x LED 9W 8.4 W / 881 lm

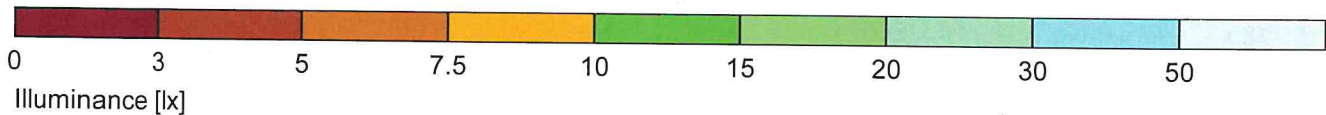
Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
 Installation :
 Project number : 02911
 Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.2 Result overview, ΟΔΟΣ ΣΤΡ. ΜΑΚΡΥΓΙΑΝΝΗ



-48 -28 -8 12 32 52 72 92 112 132 152 x [m]



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.10 m
Maintenance factor	0.80
Total luminous flux	512324 lm
Total power	4043.6 W
Total power per area (17096.49 m ²)	0.24 W/m ²

Illuminance

Average illuminance	\bar{E}_m	37.6 lx
Minimum illuminance	E_{min}	19.8 lx
Maximum illuminance	E_{max}	59.5 lx
Uniformity U_o	E_{min}/\bar{E}_m	1:1.9 (0.53)

Type No.\Make

3 16 x



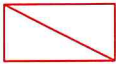







iGuzzini illuminazione S.p.A/Lab/Ver. 10/21

Order No. : !EQ27
 Luminaire name : Street EQ27: ST1 optic - Warm White - ψ 46-60-76mm - 83.4W
 11810lm - 3000K
 Equipment : 1 x LED / 77W 83.4 W / 11810 lm

Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
Installation :
Project number : 02911
Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.2 Result overview, ΟΔΟΣ ΣΤΡ. ΜΑΚΡΥΓΙΑΝΝΗ

- 4 16 x  Order No. : !EQ57
Luminaire name : Street EQ57: A60 optic - Warm White - ψ46-60-76mm - 88.4W
12120lm - 3000K
Equipment : 1 x LED / 82W 88.4 W / 12120 lm
- Platek s.r.l.**
- 5 4 x  Order No. : 8474318
Luminaire name : STEEL 200 Proiettore 9 LED (15W - 3000K) Wide - 24V DC
Equipment : 1 x LED 15 W / 1140 lm
- 6 8 x  Order No. : 8475118
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Wide - 24V DC
Equipment : 1 x LED 5.9 W / 440 lm
- 7 4 x  Order No. : 8475113
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Medium - 24V D
C
Equipment : 1 x LED 5.9 W / 435 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 02/20**
- 8 18 x  Order No. : !E001+X483
Luminaire name : Twilight E001+X483: 20.1W 2260lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 17W 20.1 W / 1990 lm
- 9 24 x  Order No. : !E013+X483
Luminaire name : Twilight E013+X483: 30.5W 3600lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 27W 30.5 W / 3160 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 04/18**
- 10 2 x  Order No. : !EI03
Luminaire name : Palco EI03: 16W 2220lm - 3000K - Refractor for elliptical
distribution - IP66
Equipment : 1 x LED / 16W 18.3 W / 2220 lm
- Nobile Illuminazione**
- 11 4 x  Order No. : F3-M-3K-A
Luminaire name : F3-M-3K-A
Equipment : 1 x LED 9W 8.4 W / 881 lm

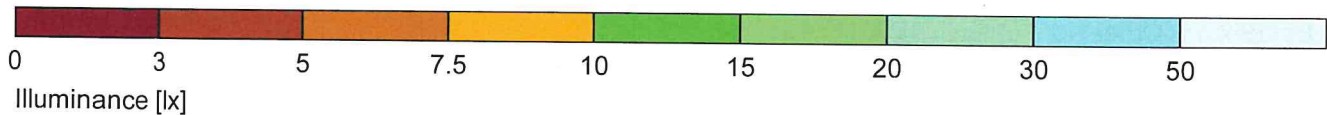
Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
 Installation :
 Project number : 02911
 Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.3 Result overview, ΟΔΟΣ ΗΡ. ΠΟΛΥΤΕΧΝΕΙΟΥ



-48 -28 -8 12 32 52 72 92 112 132 152 x [m]




General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.10 m
Maintenance factor	0.80
Total luminous flux	512324 lm
Total power	4043.6 W
Total power per area (17096.49 m ²)	0.24 W/m ²

Illuminance

Average illuminance	\bar{E}_m	34.1 lx
Minimum illuminance	E_{min}	18.8 lx
Maximum illuminance	E_{max}	53.3 lx
Uniformity U_o	E_{min}/\bar{E}_m	1:1.82 (0.55)

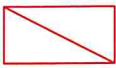







Type No.\Make

3 16 x	iGuzzini illuminazione S.p.A/Lab/Ver. 10/21	
	Order No.	: !EQ27
	Luminaire name	: Street EQ27: ST1 optic - Warm White - ψ 46-60-76mm - 83.4W 11810lm - 3000K
	Equipment	: 1 x LED / 77W 83.4 W / 11810 lm

Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
Installation :
Project number : 02911
Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.3 Result overview, ΟΔΟΣ ΗΡ. ΠΟΛΥΤΕΧΝΕΙΟΥ

- 4 16 x  Order No. : !EQ57
Luminaire name : Street EQ57: A60 optic - Warm White - φ46-60-76mm - 88.4W
12120lm - 3000K
Equipment : 1 x LED / 82W 88.4 W / 12120 lm
- Platek s.r.l.**
- 5 4 x  Order No. : 8474318
Luminaire name : STEEL 200 Proiettore 9 LED (15W - 3000K) Wide - 24V DC
Equipment : 1 x LED 15 W / 1140 lm
- 6 8 x  Order No. : 8475118
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Wide - 24V DC
Equipment : 1 x LED 5.9 W / 440 lm
- 7 4 x  Order No. : 8475113
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Medium - 24V D
C
Equipment : 1 x LED 5.9 W / 435 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 02/20**
- 8 18 x  Order No. : !E001+X483
Luminaire name : Twilight E001+X483: 20.1W 2260lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 17W 20.1 W / 1990 lm
- 9 24 x  Order No. : !E013+X483
Luminaire name : Twilight E013+X483: 30.5W 3600lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 27W 30.5 W / 3160 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 04/18**
- 10 2 x  Order No. : !EI03
Luminaire name : Palco EI03: 16W 2220lm - 3000K - Refractor for elliptical
distribution - IP66
Equipment : 1 x LED / 16W 18.3 W / 2220 lm
- Nobile Illuminazione**
- 11 4 x  Order No. : F3-M-3K-A
Luminaire name : F3-M-3K-A
Equipment : 1 x LED 9W 8.4 W / 881 lm

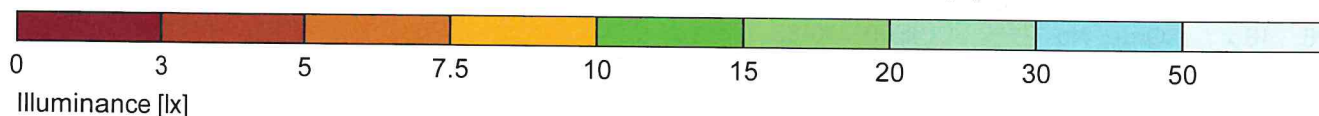
Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
 Installation :
 Project number : 02911
 Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.4 Result overview, ΟΔΟΣ ΝΙΚΟΛΑΟΥ ΣΠΕΝΤΖΑ



-48 -28 -8 12 32 52 72 92 112 132 152 x [m]




General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.10 m
Maintenance factor	0.80
Total luminous flux	512324 lm
Total power	4043.6 W
Total power per area (17096.49 m ²)	0.24 W/m ²

Illuminance

Average illuminance	\bar{E}_m	24.7 lx
Minimum illuminance	E_{min}	3.3 lx
Maximum illuminance	E_{max}	51.1 lx
Uniformity U_0	E_{min}/\bar{E}_m	1:7.49 (0.13)

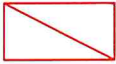







Type No. \Make

3 16 x	iGuzzini illuminazione S.p.A/Lab/Ver. 10/21
	Order No. : !EQ27
	Luminaire name : Street EQ27: ST1 optic - Warm White - ψ46-60-76mm - 83.4W 11810lm - 3000K
	Equipment : 1 x LED / 77W 83.4 W / 11810 lm

Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
Installation :
Project number : 02911
Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

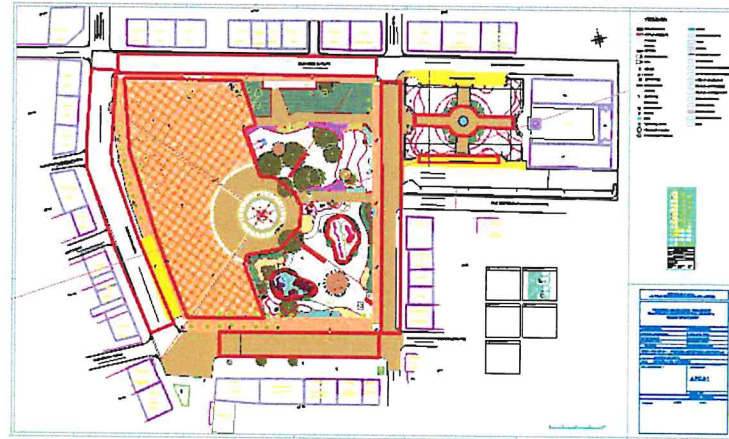
1.1.4 Result overview, ΟΔΟΣ ΝΙΚΟΛΑΟΥ ΣΠΕΝΤΖΑ

- 4 16 x  Order No. : !EQ57
Luminaire name : Street EQ57: A60 optic - Warm White - φ46-60-76mm - 88.4W
12120lm - 3000K
Equipment : 1 x LED / 82W 88.4 W / 12120 lm
- Platek s.r.l.**
- 5 4 x  Order No. : 8474318
Luminaire name : STEEL 200 Proiettore 9 LED (15W - 3000K) Wide - 24V DC
Equipment : 1 x LED 15 W / 1140 lm
- 6 8 x  Order No. : 8475118
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Wide - 24V DC
Equipment : 1 x LED 5.9 W / 440 lm
- 7 4 x  Order No. : 8475113
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Medium - 24V D
C
Equipment : 1 x LED 5.9 W / 435 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 02/20**
- 8 18 x  Order No. : !E001+X483
Luminaire name : Twilight E001+X483: 20.1W 2260lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 17W 20.1 W / 1990 lm
- 9 24 x  Order No. : !E013+X483
Luminaire name : Twilight E013+X483: 30.5W 3600lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 27W 30.5 W / 3160 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 04/18**
- 10 2 x  Order No. : !EI03
Luminaire name : Palco EI03: 16W 2220lm - 3000K - Refractor for elliptical
distribution - IP66
Equipment : 1 x LED / 16W 18.3 W / 2220 lm
- Nobile Illuminazione**
- 11 4 x  Order No. : F3-M-3K-A
Luminaire name : F3-M-3K-A
Equipment : 1 x LED 9W 8.4 W / 881 lm

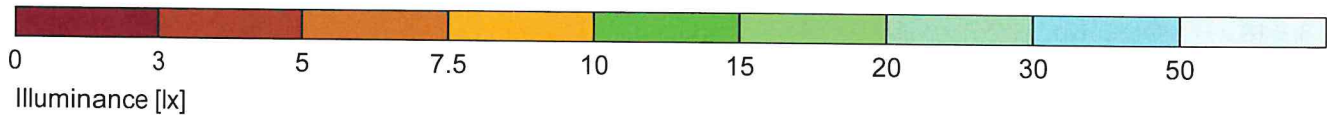
Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
 Installation :
 Project number : 02911
 Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.5 Result overview, ΠΑΙΔΙΚΗ ΧΑΡΑ 1



-48 -28 -8 12 32 52 72 92 112 132 152 x [m]




General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.15 m
Maintenance factor	0.80
Total luminous flux	512324 lm
Total power	4043.6 W
Total power per area (17096.49 m ²)	0.24 W/m ²

Illuminance

Average illuminance	\bar{E}_m	43.2 lx
Minimum illuminance	E_{min}	33 lx
Maximum illuminance	E_{max}	59.8 lx
Uniformity U_o	E_{min}/\bar{E}_m	1:1.31 (0.76)

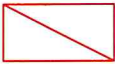







Type No.\Make

3 16 x	iGuzzini illuminazione S.p.A/Lab/Ver. 10/21
	Order No. : !EQ27
	Luminaire name : Street EQ27: ST1 optic - Warm White - φ46-60-76mm - 83.4W 11810lm - 3000K
	Equipment : 1 x LED / 77W 83.4 W / 11810 lm

Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
Installation :
Project number : 02911
Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.5 Result overview, ΠΑΙΔΙΚΗ ΧΑΡΑ 1

- 4 16 x  Order No. : IEQ57
Luminaire name : Street EQ57: A60 optic - Warm White - φ46-60-76mm - 88.4W
12120lm - 3000K
Equipment : 1 x LED / 82W 88.4 W / 12120 lm
- Platek s.r.l.**
- 5 4 x  Order No. : 8474318
Luminaire name : STEEL 200 Proiettore 9 LED (15W - 3000K) Wide - 24V DC
Equipment : 1 x LED 15 W / 1140 lm
- 6 8 x  Order No. : 8475118
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Wide - 24V DC
Equipment : 1 x LED 5.9 W / 440 lm
- 7 4 x  Order No. : 8475113
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Medium - 24V D
C
Equipment : 1 x LED 5.9 W / 435 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 02/20**
- 8 18 x  Order No. : IE001+X483
Luminaire name : Twilight E001+X483: 20.1W 2260lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 17W 20.1 W / 1990 lm
- 9 24 x  Order No. : IE013+X483
Luminaire name : Twilight E013+X483: 30.5W 3600lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 27W 30.5 W / 3160 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 04/18**
- 10 2 x  Order No. : IEI03
Luminaire name : Palco EI03: 16W 2220lm - 3000K - Refractor for elliptical
distribution - IP66
Equipment : 1 x LED / 16W 18.3 W / 2220 lm
- Nobile Illuminazione**
- 11 4 x  Order No. : F3-M-3K-A
Luminaire name : F3-M-3K-A
Equipment : 1 x LED 9W 8.4 W / 881 lm

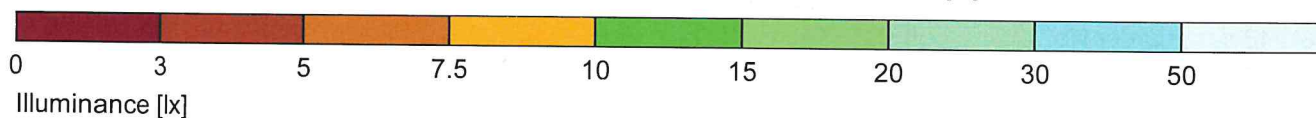
Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
 Installation :
 Project number : 02911
 Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.6 Result overview, ΠΑΙΔΙΚΗ ΧΑΡΑ 2



-48 -28 -8 12 32 52 72 92 112 132 152 x [m]



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.15 m
Maintenance factor	0.80

Total luminous flux	512324 lm
Total power	4043.6 W
Total power per area (17096.49 m ²)	0.24 W/m ²

Illuminance

Average illuminance	\bar{E}_m	41.3 lx
Minimum illuminance	E_{min}	32.8 lx
Maximum illuminance	E_{max}	58.8 lx
Uniformity U_o	E_{min}/\bar{E}_m	1:1.26 (0.79)

Type No. Make

3 16 x



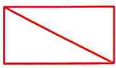







iGuzzini illuminazione S.p.A/Lab/Ver. 10/21

Order No.	: !EQ27
Luminaire name	: Street EQ27: ST1 optic - Warm White - φ 46-60-76mm - 83.4W 11810lm - 3000K
Equipment	: 1 x LED / 77W 83.4 W / 11810 lm

Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
Installation :
Project number : 02911
Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

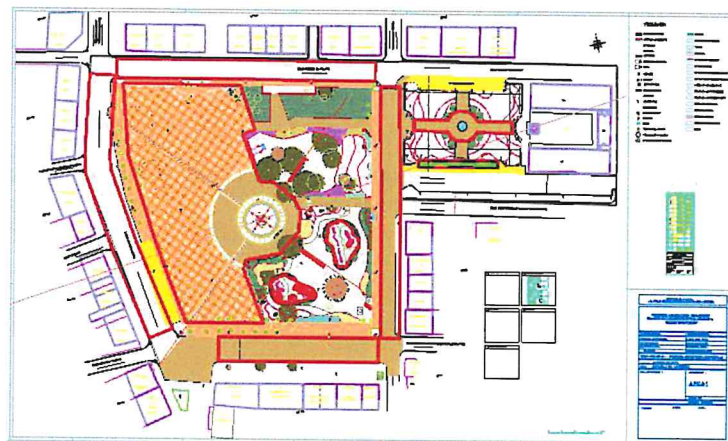
1.1.6 Result overview, ΠΑΙΔΙΚΗ ΧΑΡΑ 2

- 4 16 x  Order No. : !EQ57
Luminaire name : Street EQ57: A60 optic - Warm White - φ46-60-76mm - 88.4W
12120lm - 3000K
Equipment : 1 x LED / 82W 88.4 W / 12120 lm
- Platek s.r.l.**
- 5 4 x  Order No. : 8474318
Luminaire name : STEEL 200 Proiettore 9 LED (15W - 3000K) Wide - 24V DC
Equipment : 1 x LED 15 W / 1140 lm
- 6 8 x  Order No. : 8475118
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Wide - 24V DC
Equipment : 1 x LED 5.9 W / 440 lm
- 7 4 x  Order No. : 8475113
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Medium - 24V D
C
Equipment : 1 x LED 5.9 W / 435 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 02/20**
- 8 18 x  Order No. : !E001+X483
Luminaire name : Twilight E001+X483: 20.1W 2260lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 17W 20.1 W / 1990 lm
- 9 24 x  Order No. : !E013+X483
Luminaire name : Twilight E013+X483: 30.5W 3600lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 27W 30.5 W / 3160 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 04/18**
- 10 2 x  Order No. : !EI03
Luminaire name : Palco EI03: 16W 2220lm - 3000K - Refractor for elliptical
distribution - IP66
Equipment : 1 x LED / 16W 18.3 W / 2220 lm
- Nobile Illuminazione**
- 11 4 x  Order No. : F3-M-3K-A
Luminaire name : F3-M-3K-A
Equipment : 1 x LED 9W 8.4 W / 881 lm

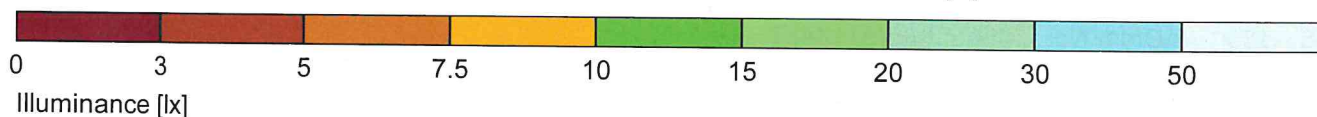
Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
 Installation :
 Project number : 02911
 Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.7 Result overview, ΧΩΡΟΣ ΣΤΑΘΜΕΥΣΗΣ ΠΛΑΤΕΙΑΣ ΡΟΛΟΓΙΟΥ



-48 -28 -8 12 32 52 72 92 112 132 152 x [m]



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.10 m
Maintenance factor	0.80
Total luminous flux	512324 lm
Total power	4043.6 W
Total power per area (17096.49 m ²)	0.24 W/m ²

Illuminance

Average illuminance	\bar{E}_m	14 lx
Minimum illuminance	E_{min}	8.2 lx
Maximum illuminance	E_{max}	25.6 lx
Uniformity U_o	E_{min}/\bar{E}_m	1:1.7 (0.59)

Type No.Make

3 16 x



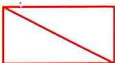







iGuzzini illuminazione S.p.A/Lab/Ver. 10/21

Order No. : !EQ27
 Luminaire name : Street EQ27: ST1 optic - Warm White - ψ 46-60-76mm - 83.4W
 11810lm - 3000K
 Equipment : 1 x LED / 77W 83.4 W / 11810 lm

Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
Installation :
Project number : 02911
Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.7 Result overview, ΧΩΡΟΣ ΣΤΑΘΜΕΥΣΗΣ ΠΛΑΤΕΙΑΣ ΡΟΛΟΓΙΟΥ

- 4 16 x  Order No. : !EQ57
Luminaire name : Street EQ57: A60 optic - Warm White - ψ46-60-76mm - 88.4W
12120lm - 3000K
Equipment : 1 x LED / 82W 88.4 W / 12120 lm
- Platek s.r.l.**
- 5 4 x  Order No. : 8474318
Luminaire name : STEEL 200 Proiettore 9 LED (15W - 3000K) Wide - 24V DC
Equipment : 1 x LED 15 W / 1140 lm
- 6 8 x  Order No. : 8475118
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Wide - 24V DC
Equipment : 1 x LED 5.9 W / 440 lm
- 7 4 x  Order No. : 8475113
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Medium - 24V D
C
Equipment : 1 x LED 5.9 W / 435 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 02/20**
- 8 18 x  Order No. : !E001+X483
Luminaire name : Twilight E001+X483: 20.1W 2260lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 17W 20.1 W / 1990 lm
- 9 24 x  Order No. : !E013+X483
Luminaire name : Twilight E013+X483: 30.5W 3600lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 27W 30.5 W / 3160 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 04/18**
- 10 2 x  Order No. : !EI03
Luminaire name : Palco EI03: 16W 2220lm - 3000K - Refractor for elliptical
distribution - IP66
Equipment : 1 x LED / 16W 18.3 W / 2220 lm
- Nobile Illuminazione**
- 11 4 x  Order No. : F3-M-3K-A
Luminaire name : F3-M-3K-A
Equipment : 1 x LED 9W 8.4 W / 881 lm

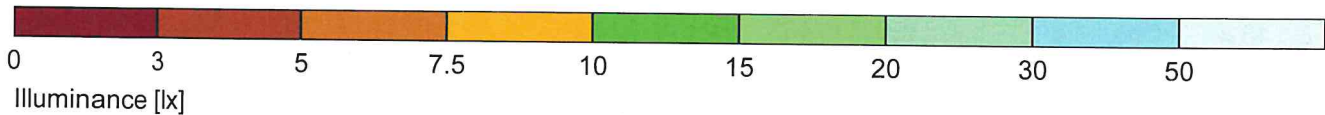
Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
 Installation :
 Project number : 02911
 Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.8 Result overview, ΠΛΑΤΕΙΑ ΡΟΛΟΓΙΟΥ



-48 -28 -8 12 32 52 72 92 112 132 152 x [m]



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.10 m
Maintenance factor	0.80
Total luminous flux	512324 lm
Total power	4043.6 W
Total power per area (17096.49 m ²)	0.24 W/m ²

Illuminance

Average illuminance	\bar{E}_m	14.5 lx
Minimum illuminance	E_{min}	6.5 lx
Maximum illuminance	E_{max}	28 lx
Uniformity U_o	E_{min}/\bar{E}_m	1:2.24 (0.45)

Type No.Make

3 16 x



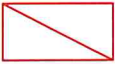







iGuzzini illuminazione S.p.A/Lab/Ver. 10/21

Order No. : !EQ27
 Luminaire name : Street EQ27: ST1 optic - Warm White - ψ 46-60-76mm - 83.4W
 11810lm - 3000K
 Equipment : 1 x LED / 77W 83.4 W / 11810 lm

Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
Installation :
Project number : 02911
Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

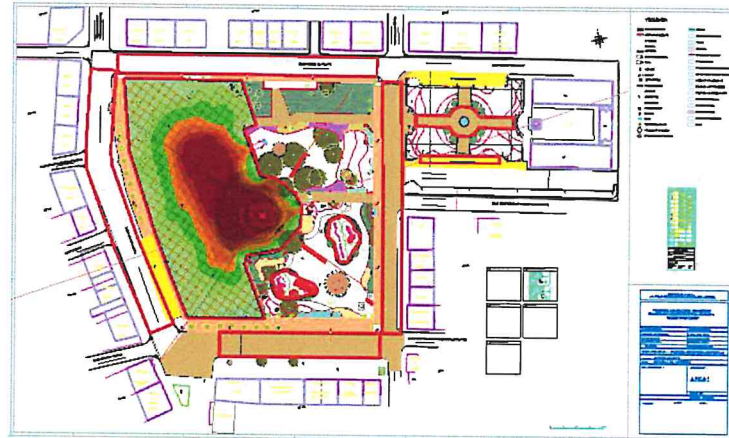
1.1.8 Result overview, ΠΛΑΤΕΙΑ ΡΟΛΟΓΙΟΥ

- 4 16 x  Order No. : IEQ57
Luminaire name : Street EQ57: A60 optic - Warm White - ψ46-60-76mm - 88.4W
12120lm - 3000K
Equipment : 1 x LED / 82W 88.4 W / 12120 lm
- Platek s.r.l.**
- 5 4 x  Order No. : 8474318
Luminaire name : STEEL 200 Proiettore 9 LED (15W - 3000K) Wide - 24V DC
Equipment : 1 x LED 15 W / 1140 lm
- 6 8 x  Order No. : 8475118
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Wide - 24V DC
Equipment : 1 x LED 5.9 W / 440 lm
- 7 4 x  Order No. : 8475113
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Medium - 24V D
C
Equipment : 1 x LED 5.9 W / 435 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 02/20**
- 8 18 x  Order No. : IE001+X483
Luminaire name : Twilight E001+X483: 20.1W 2260lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 17W 20.1 W / 1990 lm
- 9 24 x  Order No. : IE013+X483
Luminaire name : Twilight E013+X483: 30.5W 3600lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 27W 30.5 W / 3160 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 04/18**
- 10 2 x  Order No. : IEI03
Luminaire name : Palco EI03: 16W 2220lm - 3000K - Refractor for elliptical
distribution - IP66
Equipment : 1 x LED / 16W 18.3 W / 2220 lm
- Nobile Illuminazione**
- 11 4 x  Order No. : F3-M-3K-A
Luminaire name : F3-M-3K-A
Equipment : 1 x LED 9W 8.4 W / 881 lm

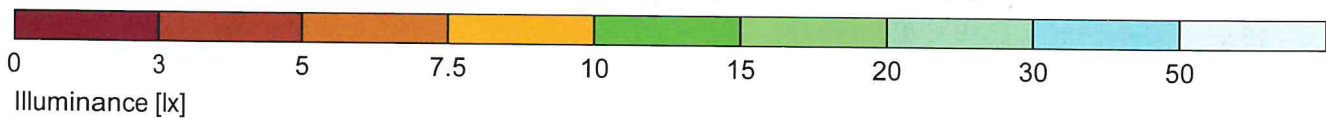
Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
 Installation :
 Project number : 02911
 Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.9 Result overview, ΠΛΑΤΕΙΑ - ΕΛΕΥΘΕΡΟΣ ΧΩΡΟΣ



-48 -28 -8 12 32 52 72 92 112 132 152 x [m]



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.15 m
Maintenance factor	0.80

Total luminous flux	512324 lm
Total power	4043.6 W
Total power per area (17096.49 m ²)	0.24 W/m ²

Illuminance

Average illuminance	\bar{E}_m	13 lx
Minimum illuminance	E_{min}	0.5 lx
Maximum illuminance	E_{max}	36.6 lx
Uniformity U_o	E_{min}/\bar{E}_m	1:27.7 (0.04)

Type No.\Make

3 16 x



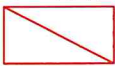







iGuzzini illuminazione S.p.A/Lab/Ver. 10/21

Order No.	: !EQ27
Luminaire name	: Street EQ27: ST1 optic - Warm White - ψ 46-60-76mm - 83.4W 11810lm - 3000K
Equipment	: 1 x LED / 77W 83.4 W / 11810 lm

Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
Installation :
Project number : 02911
Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

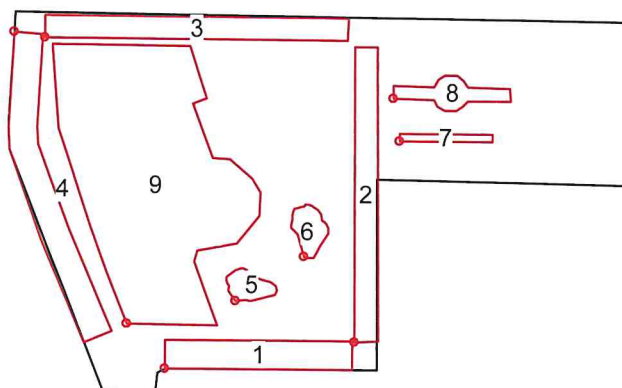
1.1.9 Result overview, ΠΛΑΤΕΙΑ - ΕΛΕΥΘΕΡΟΣ ΧΩΡΟΣ

- 4 16 x  Order No. : !EQ57
Luminaire name : Street EQ57: A60 optic - Warm White - ψ46-60-76mm - 88.4W
12120lm - 3000K
Equipment : 1 x LED / 82W 88.4 W / 12120 lm
- Platek s.r.l.**
- 5 4 x  Order No. : 8474318
Luminaire name : STEEL 200 Proiettore 9 LED (15W - 3000K) Wide - 24V DC
Equipment : 1 x LED 15 W / 1140 lm
- 6 8 x  Order No. : 8475118
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Wide - 24V DC
Equipment : 1 x LED 5.9 W / 440 lm
- 7 4 x  Order No. : 8475113
Luminaire name : MICRO STEEL Proiettore 3 LED (5,9W - 3000K) Medium - 24V D
C
Equipment : 1 x LED 5.9 W / 435 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 02/20**
- 8 18 x  Order No. : !E001+X483
Luminaire name : Twilight E001+X483: 20.1W 2260lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 17W 20.1 W / 1990 lm
- 9 24 x  Order No. : !E013+X483
Luminaire name : Twilight E013+X483: 30.5W 3600lm - 3000K - Diffuser screen
- Bilbao
Equipment : 1 x LED / 27W 30.5 W / 3160 lm
- iGuzzini illuminazione S.p.A/Lab/Ver. 04/18**
- 10 2 x  Order No. : !EI03
Luminaire name : Palco EI03: 16W 2220lm - 3000K - Refractor for elliptical
distribution - IP66
Equipment : 1 x LED / 16W 18.3 W / 2220 lm
- Nobile Illuminazione**
- 11 4 x  Order No. : F3-M-3K-A
Luminaire name : F3-M-3K-A
Equipment : 1 x LED 9W 8.4 W / 881 lm

Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
 Installation :
 Project number : 02911
 Date : 09.06.2023

1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.10 Exterior summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)



General

Calculation algorithm used
 Maintenance factor

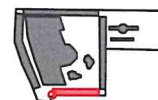
Average indirect fraction
 0.80

Measuring areas

1 ΟΔΟΣ ΘΕΟΔΩΡΑΚΟΠΟΥΛΟΥ

ILLUMINANCE
 \bar{E}_m 42 lx
 E_{min} 27 lx

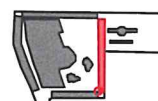
Calculation field: 60.66m x 9.21m (41 x 7 pts), Height = 0.10m
 U_o 0.63
 U_d 0.44



2 ΟΔΟΣ ΣΤΡ. ΜΑΚΡΥΓΙΑΝΝΗ

ILLUMINANCE
 \bar{E}_m 38 lx
 E_{min} 19.8 lx

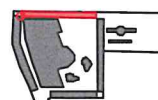
Calculation field: 95.29m x 7.3m (65 x 5 pts), Height = 0.10m
 U_o 0.53
 U_d 0.33



3 ΟΔΟΣ ΗΡ. ΠΟΛΥΤΕΧΝΕΙΟΥ

ILLUMINANCE
 \bar{E}_m 34 lx
 E_{min} 18.8 lx

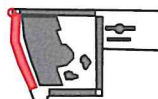
Calculation field: 97.97m x 7.3m (66 x 5 pts), Height = 0.10m
 U_o 0.55
 U_d 0.35



4 ΟΔΟΣ ΝΙΚΟΛΑΟΥ ΣΠΕΝΤΖΑ

ILLUMINANCE
 \bar{E}_m 25 lx
 E_{min} 3.30 lx

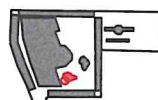
Calculation field: 102.6m x 9.56m (72 x 7 pts), Height = 0.10m
 U_o 0.13
 U_d 0.06



5 ΠΑΙΔΙΚΗ ΧΑΡΑ 1

ILLUMINANCE
 \bar{E}_m 43 lx
 E_{min} 33 lx

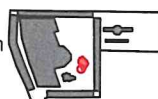
Calculation field: 15.99m x 10.66m (12 x 8 pts), Height = 0.15m
 U_o 0.76
 U_d 0.55



6 ΠΑΙΔΙΚΗ ΧΑΡΑ 2

ILLUMINANCE

Calculation field: 13.26m x 15.91m (10 x 12 pts), Height = 0.15m



Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
Installation :
Project number : 02911
Date : 09.06.2023

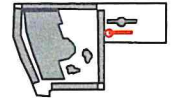
1.1 Summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.1.10 Exterior summary, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

\bar{E}_m	E_{min}	U_o	U_d
41 lx	33 lx	0.79	0.56

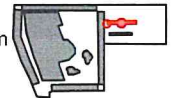
7 ΧΩΡΟΣ ΣΤΑΘΜΕΥΣΗΣ ΠΛΑΤΕΙΑΣ ΡΟΛΟΓΙΟΥ

Illuminance		Calculation field: 30m x 2.65m (76 x 7 pts), Height = 0.10m	
\bar{E}_m	E_{min}	U_o	U_d
14.0 lx	8.25 lx	0.59	0.32



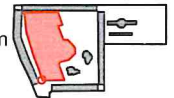
8 ΠΛΑΤΕΙΑ ΡΟΛΟΓΙΟΥ

Illuminance		Calculation field: 37.87m x 11.26m (35 x 10 pts), Height = 0.10m	
\bar{E}_m	E_{min}	U_o	U_d
14.5 lx	6.47 lx	0.45	0.23



9 ΠΛΑΤΕΙΑ - ΕΛΕΥΘΕΡΟΣ ΧΩΡΟΣ

Illuminance		Calculation field: 67.82m x 90.24m (15 x 19 pts), Height = 0.15m	
\bar{E}_m	E_{min}	U_o	U_d
13.0 lx	0.47 lx	0.04	0.01

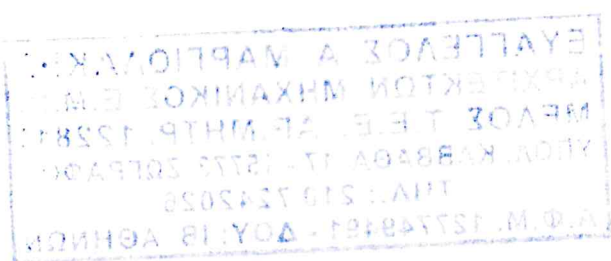
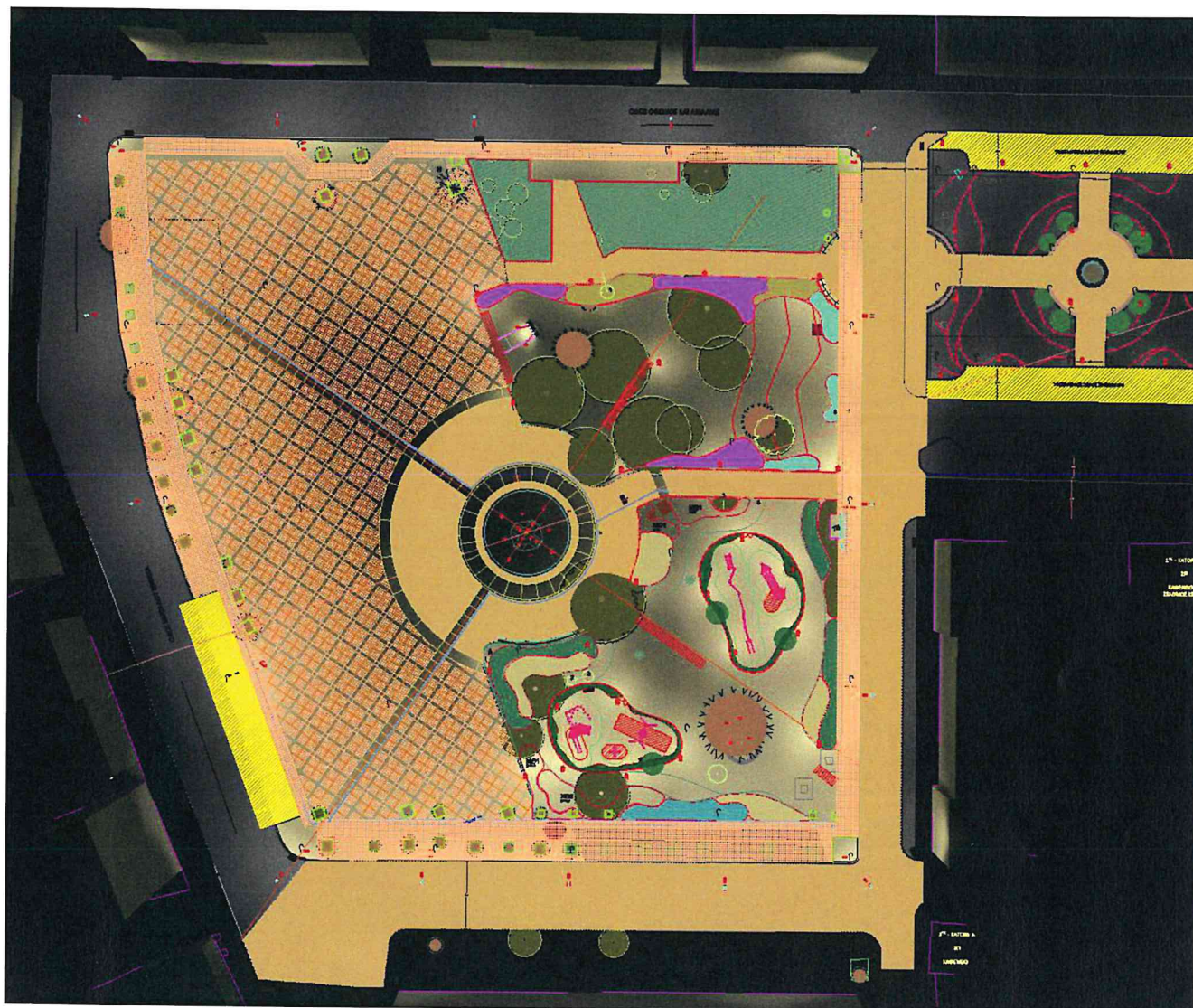


Object : ΠΛΑΤΕΙΑ ΚΑΠΟΔΙΣΤΡΙΟΥ - ΦΙΛΙΑΤΡΑ
Installation :
Project number : 02911
Date : 09.06.2023

1 ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

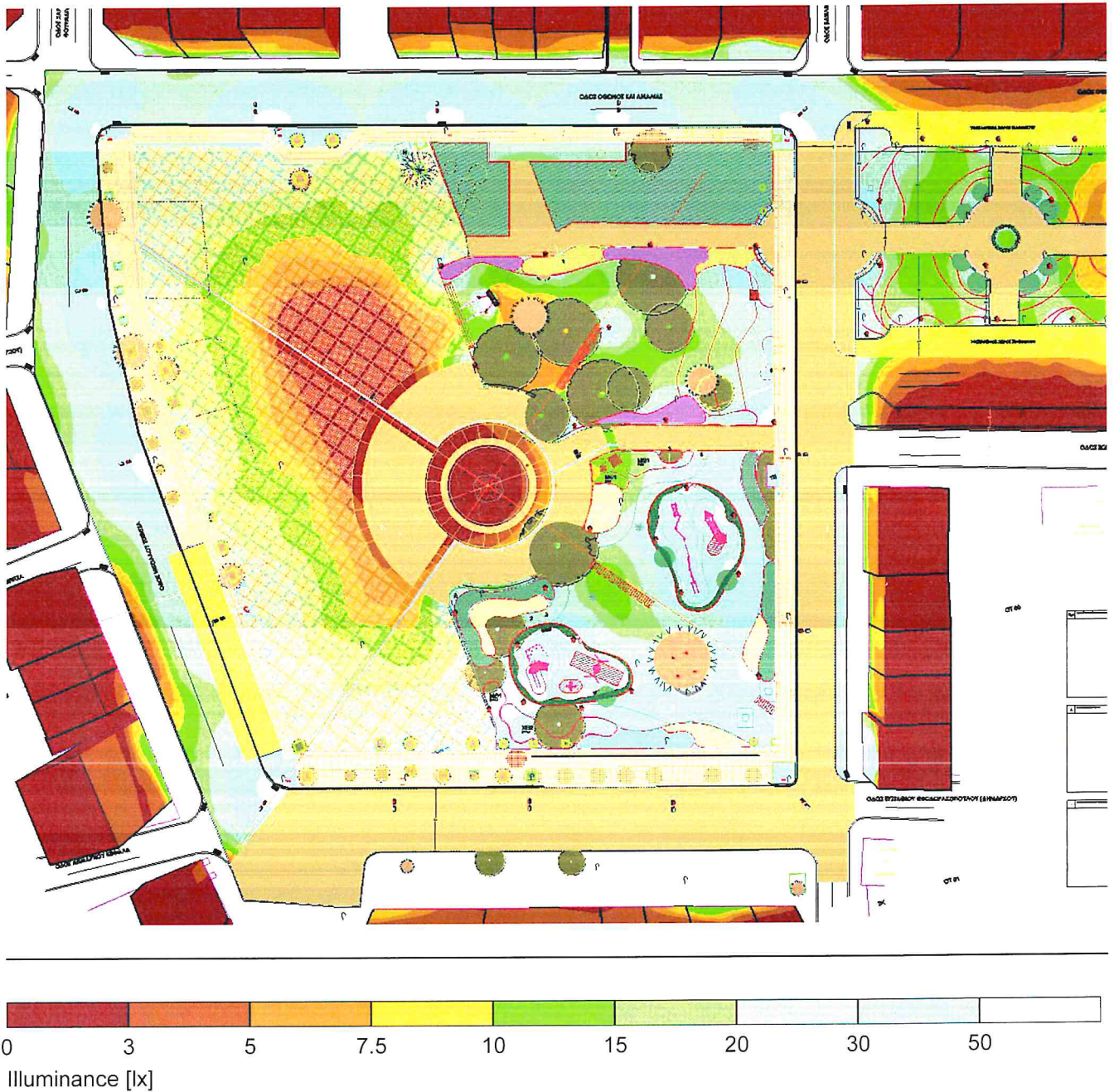
1.2 Calculation results, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.2.1 3D luminance, View from above



1.2 Calculation results, ΚΕΝΤΡΙΚΗ ΠΛΑΤΕΙΑ (EQ27-EQ57)

1.2.2 3D pseudo colours, View from above (E)



ΕΥΑΓΓΕΛΟΣ Α. ΜΑΡΓΙΟΛΑΚΗΣ
ΑΡΧΙΤΕΚΤΩΝ ΜΗΧΑΝΙΚΟΣ Ε.Μ.Μ.
ΜΕΛΟΣ Τ.Ε.Ε. ΑΡ.ΜΗΤΡ. 122810
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