



S.R.L. „TENSGRUP”

MD 2071 mun. Chișinău, str. L. Deleanu, 4 ap 63

mob: 068502016

FAX/TEL: 022470575

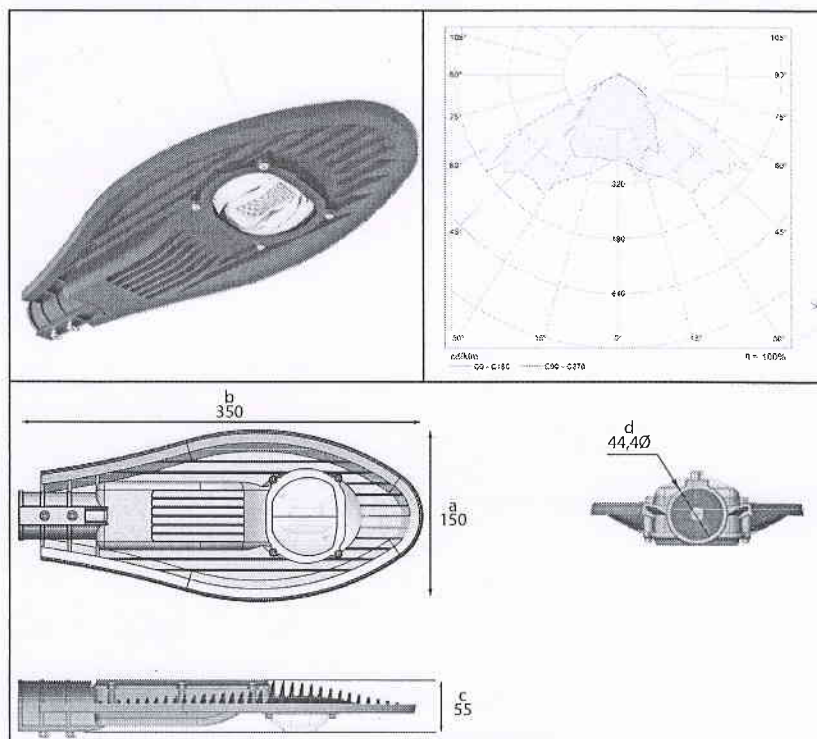
IBAN: MD83AG000000022512141559

BC "Moldova Agroindbank" SA fil. Chișinău Centru

IDNO 1013600026414/ cod TVA 0507007

tensgrup@mail.ru

Prospect tehnic: Corp de iluminat stradal LED 30W-50W BULB



Lungime 30W/50W	350 mm / 490mm
Latime 30W/50W	150 mm / 210mm
Grosime 30W/50W	55 mm / 75mm
Frecventa	50-60 Hz
Putere	30W – 50W
Tensiune	220 V
Flux luminos	3690 lm – 6300 lm
Clasa IP	IP 65
Clasa IK Carcasa/Stecla	IK 09/ IK 08
Factorul de putere	0.9
Redarea culorilor	70 CRI
Temperatura culorii	6500 K
Masa	0.64 kg / 1.25 kg
Siguranta fuzibila	este
Indiplinire functiei de radiator pasiv	este





CERTIFICAT DE CONFORMITATE



Nr. de înregistrare

OCpr - 001 13 C004628-20

Data emiterii

24 ianuarie 2020

Valabil pînă la

24 ianuarie 2021

ORGANISMUL DE CERTIFICARE OCpr - 001

ORGANISMUL DE CERTIFICARE PRODUSE (OCP) din cadrul Î.S. "Centrul de Metrologie Aplicată și Certificare" (Î.S. CMAC). Adresa: str. E. Coca, 28, MD 2064, mun. Chișinău; tel.: 022 719279, 022 750463; fax: 022 745489.

PRIN PREZENTUL DOCUMENT SE CONFIRMĂ FAPTUL, CĂ PRODUSELE IDENTIFICATE ASTFEL:
DENUMIREA / DESCRIEREA

Aparate electrice pentru iluminat public (corpuri de iluminat stradale LED) m.c. JLIP modele: GR...A, GR..., unde (...) - cifre și/sau litere ce reprezintă variantele modelului. Contract de livrare Nr.2019H2088 din 10.10.2019 cu Jlip Group Co., LTD, China

Codul NCM

9405

SÎNT CONFORME CU CERINȚELE OBLIGATORII STABILITE ÎN :

SM SR EN 60598-2-3:2010 cap. 3.4-3.11, 3.13, 3.14

PRODUCĂTOR

JLIP GROUP Co., LTD, China

Codul țării

CN

SOLICITANT

"CEGOLTAR" SRL, str. Nuferilor 25, mun. Chisinau, Republica Moldova
depozit: mun. Chisinau, str. Petricani 21/1, Republica Moldova

Codul IDNO

1003600017268

CERTIFICATUL ESTE ELIBERAT ÎN BAZA

Raport de evaluare final Nr.137-RE din 24.01.2020, eliberat de OCP din cadrul Î.S. CMAC, str. E. Coca 28, mun. Chișinău, MD 2064, certificat de acreditare Nr. OCpr - 001 din 10.09.2018; Raport de încercări Nr. 8641/02/20 din 24.01.2020, eliberat de LÎ "CERTIFICARE" S.R.L., mun. Chișinău, bd. Iu. Gagarin, 2, certificat de acreditare Nr. LÎ-076 din 17.06.2016.

INFORMAȚIE SUPPLEMENTARĂ:

Schema de certificare 2. Supravegherea se va efectua una dată pe an de către OCP din cadrul ÎS CMAC. Certificatul este valabil doar în cazul asigurării cu informație în limba de stat a fiecărei unități de produs conform legislației în vigoare. Acord Nr. 6982/2020 din 24.01.2020. Dosar Nr. 3244.



Conducătorul organismului de certificare

Caraban A.

Pedas Elektrik San. ve Tic. A.Ş.

Merve Mh. Necip Fazıl Cd. No: 6 Yenidoğan / Sancaktepe / İstanbul / Türkiye

CE DECLARATION OF CONFORMITY

MANUFACTURER : Pedas Elektrik San. ve Tic. A.Ş.

ADDRESS : Merve Mh. Necip Fazıl Cd. No:6 Yenidoğan / Sancaktepe / İstanbul / Türkiye

DECLARE UNDER OUR SOLE RESPONSIBILITY THAT PRODUCTS

BRAND NAME : PEDAS

INTERNAL TYPE LIGHTING LUMINAIRES

MODEL NAMES : MEST, SELON, ETNA, BELLO, STARK, COLLE, FAVOR, UP FAVOR, LESA, MEGA, MELLY, ROYAL, SIENTO, SERA, LATINA, BELISA, GALON, PLANET, GENOVA RUMBA, SAMBA, RUBY, PABLO, LUTOS, MIRROR, CARINA, AXIS, UP AXIS, URBAN, UP URBAN SAFRAN, ZAMBAK, NEO, RINI, ORLEON, HOBBY, ZIRVE, RONDA, CLASS, UP CLASS, GOKNAR, SARIYER, SEDIR, SELVI, EBRO, SNOW, TURBO, CLOVE, CLEAN, STARK, UP STARK, UP CLEAN, ELEGANCE, UP ELEGANCE, KARIZMA, HOBBY LED, ARTEMIS, KURE, MUNZUR, NERGİZ, ILGAR, OPAC, ALASKA, NEO, LOGIC, PRIZMA, FAVOR, FRAGILE, QUADRO TEO, QUADRO TEO

EXTERNAL TYPE LIGHTING LUMINAIRES

MODEL NAMES : LEO, UP LEO, ROUGH, IRIS, IRIS PLUS, RETINA, VISION, OJO ANGEL, METRO, VETRA, TOWER, HELENA, ASUS, LENA, VERONA, ALTAY, STYLE, TRENDY, ARAL, MAKAU, MAUNA, GALAXY, MARS, MATRIX, NEPTUN, FOCUS, REGATA, MENZİL, IGNITORS, CHOCK

TO WHICH THIS DECLARATION RELATES ARE IN CONFORMITY WHICH THE FOLLOWING STANDARD OR OTHER NORMATIVE DOCUMENTS

GENERAL PURPOSE LUMINARIES

*TS8699 EN 60598-2-2
*TS8698 EN 60598-2-1
*TS8700 EN 60598-2-3
*TS8702 EN 60598-2-5
*TS EN 61347-2-9
*TS8710 EN 60598-2-22

Ref. Test Report: AB-001-T220369-01-15

AB-001-T220337-01-15

AB-001-T220381-01-15

THE DATE WHEN CE MARK HAS APPLIED TO THE PRODUCTS : (2019)

PLACE : TURKEY

DATE : 14/01/2020

PEDAS ELEKTRİK SAN. ve TİC. A.Ş.
Merve Mh. Necip Fazıl Cd. No:6 Sancaktepe / İST.
Fab/ Tel: (0216) 384 33 27 / Faks (0216) 313 12 76
Anadoluhisari Kurumlar V.D. 723 004 5403 Tic.Sic:170498

Certificat de garanție

Prin prezenta, CEGOLTAR” SRL, asigură garanția corpurilor de iluminat stradal LED 30W 6500K BULB și LED 50W 6500K BULB pe un termen de 3 ani. În aceasta perioadă garantăm repararea produselor nominalizate, care s-au dovedit a fi defecte sau înlocuirea acestora fără costuri.

***Nota:** în cazul când în procesul de reparație s-a depistat că defectul este cauzat din vina beneficiarului, de abuz sau folosirea necorespunzătoare a produsului, sau de condițiile de mediu, care nu sunt în conformitate cu recomandările aferente produsului, toate cheltuielile vor fi suportate de către cumpărător.*

„CEGOLTAR” SRL,
director, dl Mihail Bolgarin



ROUGH

LED Street And Road Lighting Luminaire
LED Cadde ve Sokak Armatürü



ROUGH
50W

Product Features / Ürün Özellikleri

- LED Chip by / LED Çip **SAMSUNG & LUMILEDS**
- LED Driver by / LED Trafo **PEDAŞ & MEANWELL**
- Thermally Conductive by / Termal İletken Madde **DOW CORNING**



TECHNICAL DATAS / TEKNİK BİLGİLER

Product Features / Ürün Özellikleri

- Housing / Kasa : Thermal DIE-CAST Aluminium / Termal Alüminyum Döküm
- Usage / Kullanım Şekli : Pole Mounting, External / Direk Montaj, Harici
- Optic Lens / Optik Lens : Ultra Clear Glass Lens / Yüksek Geçirgenli Cam Lens
- Classifications / Koruma Sınıfı : IP65
- Impact Protection / Darbe Dayanımı : Housing / Kasa IK 09
Glass / Cam IK 08

Optic & Electrical Features / Optik ve Elektriksel Özellikler

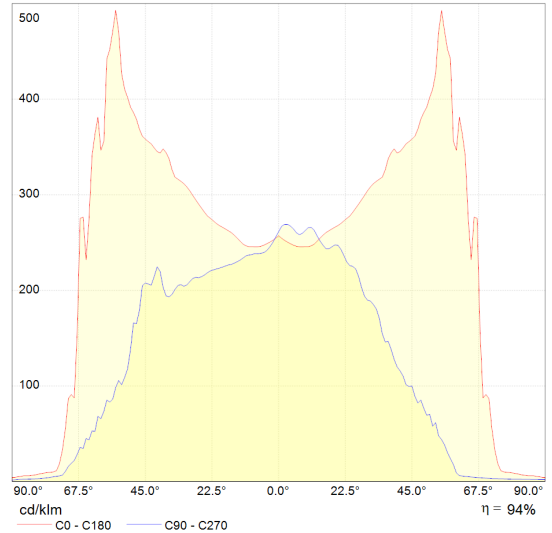
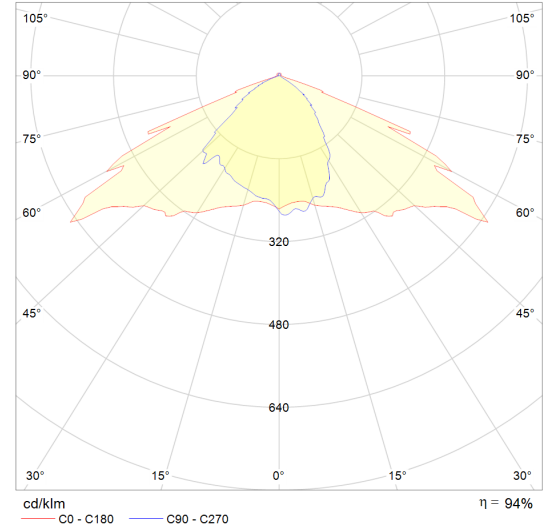
- Power / Tüketim Gücü : 50 W
- Luminaire Output Flux / Armatür Işık Akısı Şiddeti : 5005 LM / 6300 LM (±5%)
- Efficiency / Verimlilik : **SAMSUNG** 100 L/W / **LUMILEDS** 126 L/W
- System Voltage / Sistem Voltaj : 85 ~ 265VAC / 90 ~ 305VAC
- Input Frequency (Hz) / Giriş Frekansı (Hz) : 50 ~ 60 Hz
- Power Factor / Güç Faktörü : ≥ 0.9
- THD-(Total Harmonic Distortion) : $\leq 20\%$
- Max. Voltage Resistance /Max. Gerilim Dayanımı (Surge) : 3-6kV
- Colour Rendering Index (CRI) / Renk Geriverim İndeksi (CRI) : 70 CRI
- Colour Temperature / Renk Sıcaklığı (CCT) : 6500K

Other Features / Diğer Özellikler

- Operating Temperature Range / Çalışma Sıcaklığı Aralığı : -10 ~ +40°C / -40 ~ +50°C
- Light Life / LED Ömrü : L70 > 50.000 saat
- Driver Life / Sürücü Ömrü : **MEANWELL** Ta=50°C 50.000 saat
PEDAŞ Ta=40°C 20.000 saat

Optional Features / Opsiyonel Özellikler

- Color Temperature / Renk Sıcaklığı : 2700 ~ 6500K
- Optical Angle Option / Optik Açı Seçeneği : 120x90° / 150x90°
- Solar Panel Compatible Luminaire / Solar Panel Uyumlu : 12,24 V DC
- DIM Compatibility / DIM Uyumluluğu : 1 - 10 V
- RAL Code / RAL Kodu : RAL 9005 / RAL 9006



Usage Areas / Kullanım Alanları

- Highways / Otoyollar
- Urban Roads / Şehir İçi Yollar
- Streets / Sokaklar
- Parks / Parklar
- Industrial Areas / Sanayi Bölgeleri
- Car Parking / Araç Otoparkları
- Ports and Shipyards / Liman ve Tersaneler
- Construction / Şantiyeler

ROUGH

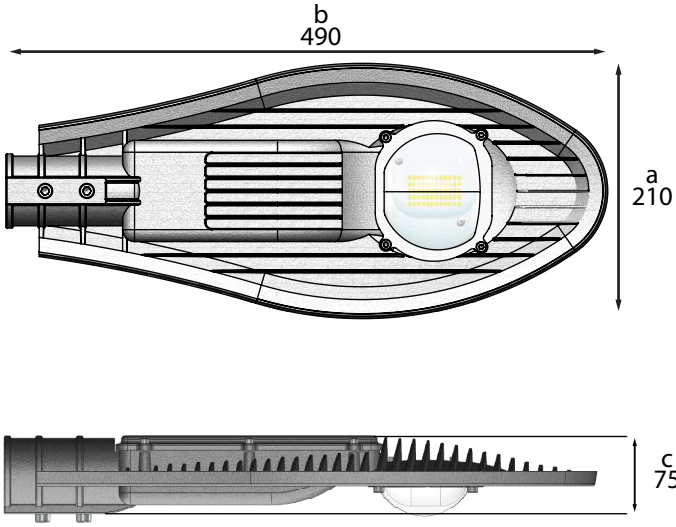
LED Street And Road Luminaire LED Cadde ve Sokak Armatürü

Product Dimensions / Ürün Boyutları (mm)

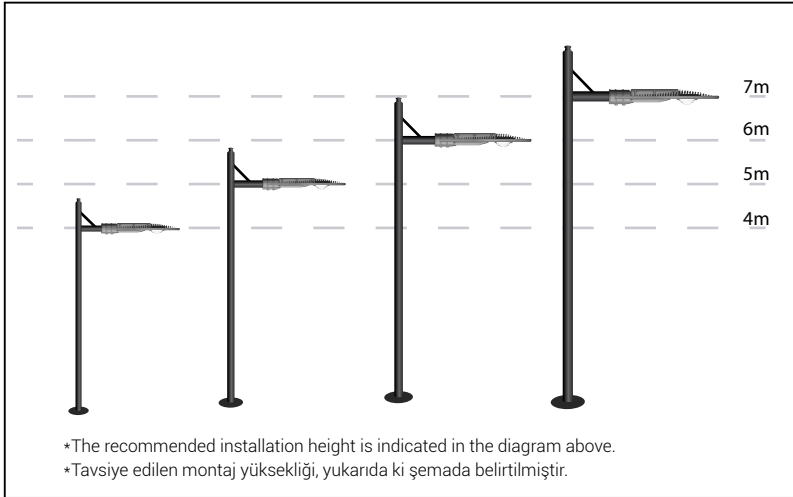
ROUGH 50W	a	b	c	d
	210	490	75	53,8
Box Sizes / Ambalaj Ölçüleri	240	520	90	

*Note: The size of package is for 1 PCS.

*Not: Ambalaj ölçüleri 1 adet ürün için geçerlidir.



Mounting Height / Montaj Yüksekliği

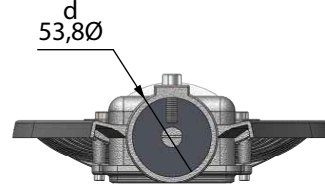


Weight / Ağırlık (kg)

Standard Product / Standart Ürün	1,25 kg
Packaged Weight / Ambalajlı	1,56 kg

*Note: The weight of package is for 1 PCS.

*Not: Ambalaj ağırlıkları 1 adet ürün için geçerlidir.

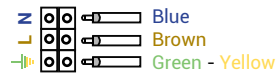


Installation Warnings / Montaj Uyarıları

- Follow the electrical connection instructions shown in Figure 1.
- This product installation must be performed by qualified electricians only, in accordance with national electricity and all other local standard.
- Ensure that the supplied luminaire is the same as the input voltage value.
- Ensure that the electrical power is off before installation and maintenance. Earthing connection is important.
- Be carefully to avoid bumps and scratches on the glass lens of product.
- Do not pull the electrical cables as this will damage the internal connections.
- The decision of the suitability of the product is under responsibility of end user.
- Any use of the product other than that recommended will void the warranty.
- Use only in places where the electricity is stable.

- Şekil 1 de gösterilen elektriksel bağlantı talimatlarına uyunuz.
- Bu ürün kurulumu ulusal elektrik ve tüm diğer yerel kanunlar uygunluğunda, sadece kalifiyeli elektrikçiler tarafından yapılmalıdır.
- Tedarik edilen armatürün voltajı, giriş voltaj değeri ile aynı olduğundan emin olun.
- Kurulum ve bakım öncesi elektrik gücünün kapalı olduğundan emin olun. Topraklama bağlantısı gereklidir.
- Cam lens üzerinde darbe ve çizik oluşturmamak için ürünü dikkatli kullanınız.
- İç bağlantılarına zarar vereceği için elektrik kablolarını germeyiniz.
- Ürünün uygunluğunun kararı, son kullanıcının sorumluluğundadır.
- Ürünün tavsiye edilenin dışında kullanımı garanti kapsamını geçersiz kılar.
- Sadece elektriğin stabil olduğu yerlerde kullanınız.

Figure 1 / Şekil 1



The standard electrical installation diagram of product is as in Figure 1.
Standart ürün elektriksel montaj şeması şekil 1 deki gibidir.

ROUGH

LED Street And Road Lighting Luminaire
LED Cadde ve Sokak Armatürü



ROUGH
30W

Product Features / Ürün Özellikleri

- LED Chip by / LED Çip **SAMSUNG & LUMILEDS**
- LED Driver by / LED Trafo **PEDAŞ & MEANWELL**
- Thermally Conductive by / Termal İletken Madde **DOW CORNING**



TECHNICAL DATAS / TEKNİK BİLGİLER

Product Features / Ürün Özellikleri

- Housing / Kasa : Thermal DIE-CAST Aluminium / Termal Alüminyum Döküm
- Usage / Kullanım Şekli : Pole Mounting, External / Direk Montaj, Harici
- Optic Lens / Optik Lens : Ultra Clear Glass Lens / Yüksek Geçirgenli Cam Lens
- Classifications / Koruma Sınıfı : IP65
- Impact Protection / Darbe Dayanımı : Housing / Kasa IK 09
Glass / Cam IK 08

Optic & Electrical Features / Optik ve Elektriksel Özellikler

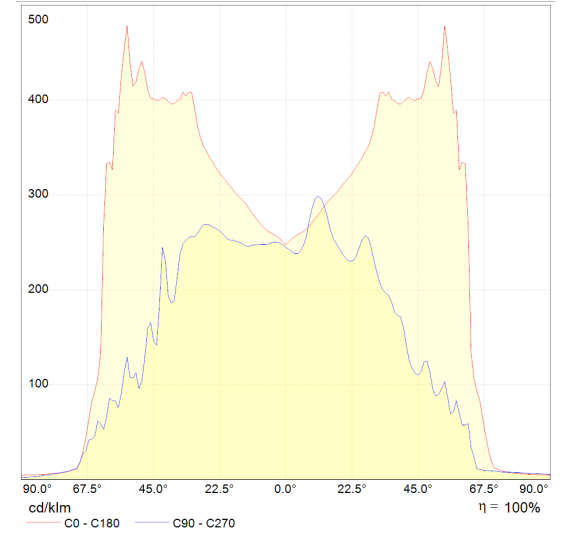
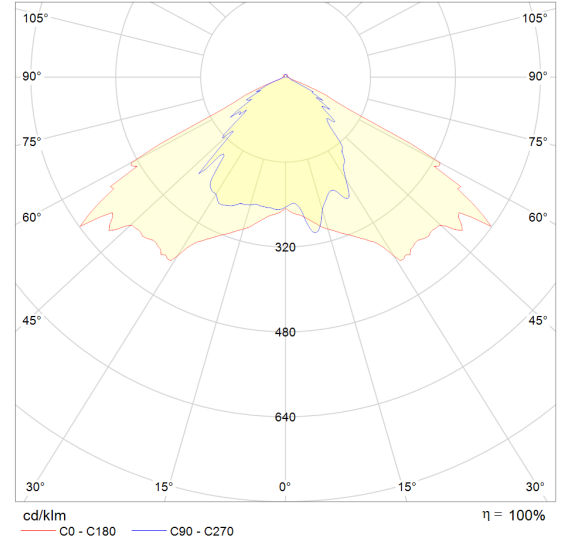
- Power / Tüketim Gücü : 30 W
- Luminaire Output Flux / Armatür Işık Akısı Şiddeti : 3690 LM / 4320 LM (±%5)
- Efficiency / Verimlilik : **SAMSUNG** 123 L/W / **LUMILEDS** 144 L/W
- System Voltage / Sistem Voltaj : 85 ~ 265VAC / 90 ~ 305VAC
- Input Frequency (Hz) / Giriş Frekansı (Hz) : 50 ~ 60 Hz
- Power Factor / Güç Faktörü : ≥ 0.9
- THD-(Total Harmonic Distortion) : <%20
- Max. Voltage Resistance /Max. Gerilim Dayanımı (Surge) : 3-6kV
- Colour Rendering Index (CRI) / Renk Geriverim İndeksi (CRI) : 70 CRI
- Colour Temperature / Renk Sıcaklığı (CCT) : 6500K

Other Features / Diğer Özellikler

- Operating Temperature Range / Çalışma Sıcaklığı Aralığı : -10 ~ +40°C / -40 ~ +50°C
- Light Life / LED Ömrü : L70 > 50.000 saat
- Driver Life / Sürücü Ömrü : **MEANWELL** Ta=50°C 50.000 saat
PEDAŞ Ta=40°C 20.000 saat

Optional Features / Opsiyonel Özellikler

- Color Temperature / Renk Sıcaklığı : 2700 ~ 6500K
- Optical Angle Option / Optik Açı Seçeneği : 120x90° / 150x90°
- Solar Panel Compatible Luminaire / Solar Panel Uyumlu : 12,24 V DC
- DIM Compatibility / DIM Uyumluluğu : 1 - 10 V
- RAL Code / RAL Kodu : RAL 9005 / RAL 9006



Usage Areas / Kullanım Alanları

- Highways / Otoyollar
- Urban Roads / Şehir İçi Yollar
- Streets / Sokaklar
- Parks / Parklar
- Industrial Areas / Sanayi Bölgeleri
- Car Parking / Araç Otoparkları
- Ports and Shipyards / Liman ve Tersaneler
- Construction / Şantiyeler

ROUGH

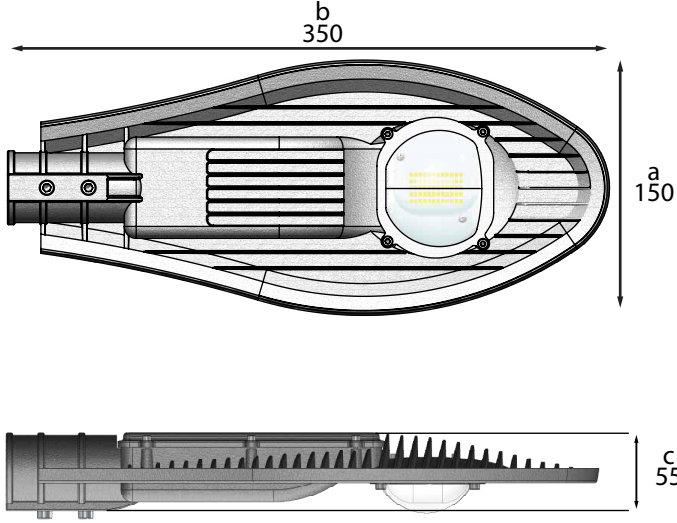
LED Street And Road Luminaire LED Cadde ve Sokak Armatürü

Product Dimensions / Ürün Boyutları (mm)

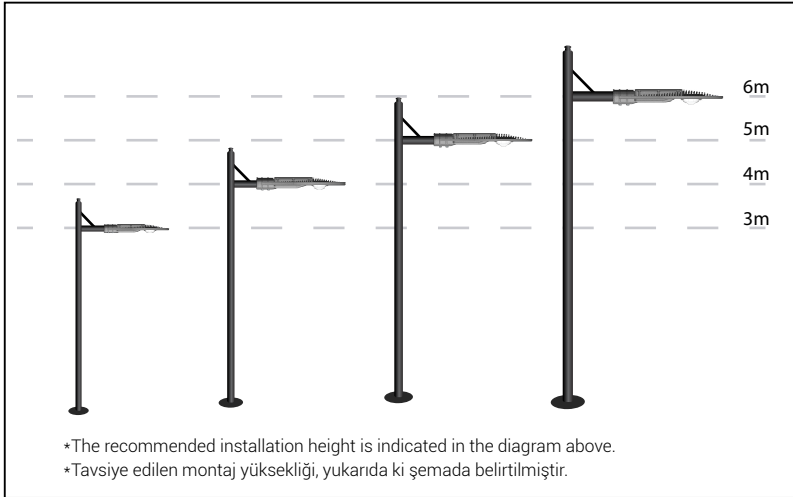
ROUGH 30W	a	b	c	d
	150	350	55	44,4Ø
Box Sizes / Ambalaj Ölçüleri	175	450	75	

*Note: The size of package is for 1 PCS.

*Not: Ambalaj ölçüleri 1 adet ürün için geçerlidir.



Mounting Height / Montaj Yüksekliği

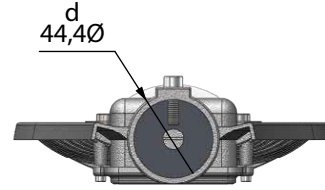


Weight / Ağırlık (kg)

Standard Product / Standart Ürün	0,64 kg
Packaged Weight / Ambalajlı	0,74 kg

*Note: The weight of package is for 1 PCS.

*Not: Ambalaj ağırlıkları 1 adet ürün için geçerlidir.

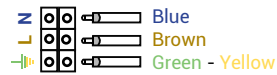


Installation Warnings / Montaj Uyarıları

- Follow the electrical connection instructions shown in Figure 1.
- This product installation must be performed by qualified electricians only, in accordance with national electricity and all other local standard.
- Ensure that the supplied luminaire is the same as the input voltage value.
- Ensure that the electrical power is off before installation and maintenance. Earthing connection is important.
- Be carefully to avoid bumps and scratches on the glass lens of product.
- Do not pull the electrical cables as this will damage the internal connections.
- The decision of the suitability of the product is under responsibility of end user.
- Any use of the product other than that recommended will void the warranty.
- Use only in places where the electricity is stable.

- Şekil 1 de gösterilen elektriksel bağlantı talimatlarına uyunuz.
- Bu ürün kurulumu ulusal elektrik ve tüm diğer yerel kanunlar uygunluğunda, sadece kalifiyeli elektrikçiler tarafından yapılmalıdır.
- Tedarik edilen armatürün voltajı, giriş voltaj değeri ile aynı olduğundan emin olun.
- Kurulum ve bakım öncesi elektrik gücünün kapalı olduğundan emin olun. Topraklama bağlantısı gereklidir.
- Cam lens üzerinde darbe ve çizik oluşturmamak için ürünü dikkatli kullanınız.
- İç bağlantılarına zarar vereceği için elektrik kablolarını germeyiniz.
- Ürünün uygunluğunun kararı, son kullanıcının sorumluluğundadır.
- Ürünün tavsiye edilenin dışında kullanımı garanti kapsamını geçersiz kılar.
- Sadece elektriğin stabil olduğu yerlerde kullanınız.

Figure 1 / Şekil 1



The standard electrical installation diagram of product is as in Figure 1.
Standart ürün elektriksel montaj şeması şekil 1 deki gibidir.

Luminaire Property

Luminaire Description:

Luminaire Categorie: 30W

Lamp Categorie:

Lamp Description:

Number of Lamp:

Lamp Lumens(lm): 3157.74

Luminous Length(m): 0.0

Luminous Width(m): 0.0

Luminous Height(m): 0.0

Voltage: 220.1 V

Current: 0.205 A

Power: 26.34 W

Power Factor: 0.582

Test Lab: 0

Photometric Type: Type C

Manufactory:

Photometric Results

CIE Class: Direct

Measurement Flux: 3157.74 lm

Efficiency: 119.8838 lm/W

Central Intensity: 849.982cd

Max. Intensity: 2104.34cd

Field Angle(10%Imax): Left: -16.8 Right:117.0

Max.Intensity Angle: C:180.0 G:48.0

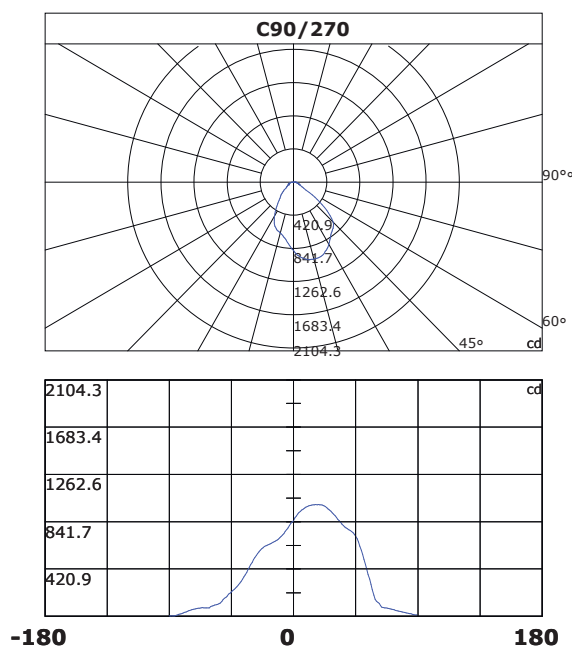
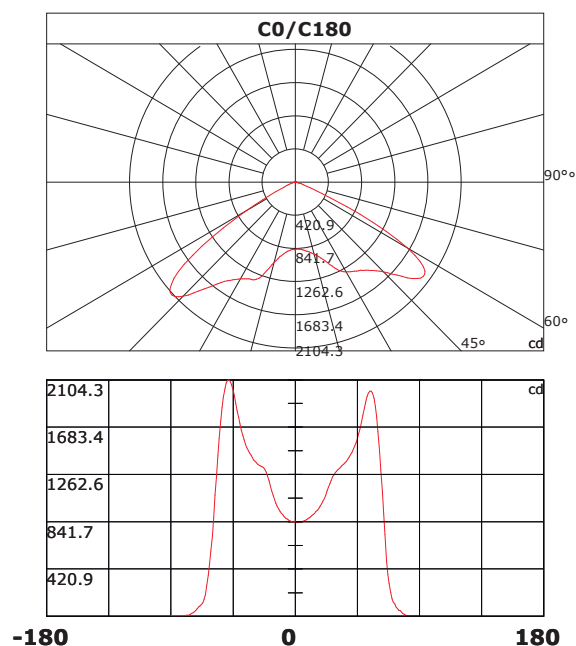
Beam Angle(50%Imax): L: -10.1 R:111.3

Luminaire Efficacy Rating(LER) : 100.00%

Upward Ratio: 0.0%

Downward Ratio: 100.0%

Beamwidth(50%Imax): C0/180=119.29 C90/270=113.12



Light intensity data Unit[cd]

C\G	G0.0	G1.0	G2.0	G3.0	G4.0	G5.0	G6.0	G7.0	G8.0	G9.0
C0.0	850.0	835.1	836.2	837.1	840.1	844.8	847.8	853.8	859.7	867.8
C45.0	850.0	879.1	889.8	902.8	913.7	922.8	932.2	943.0	954.3	964.2
C90.0	850.0	875.3	893.2	910.1	923.4	936.0	945.7	955.2	962.9	972.0
C135.0	850.0	857.3	870.4	887.3	904.0	920.5	938.8	960.2	979.0	998.8
C180.0	850.0	837.6	840.8	845.5	848.7	858.2	866.7	876.0	887.3	902.9
C225.0	850.0	857.3	846.0	836.0	827.2	815.9	805.3	796.1	787.5	777.3
C270.0	850.0	841.7	825.2	805.8	788.6	771.7	755.2	737.2	723.4	710.0
C315.0	850.0	830.2	817.5	805.6	794.9	783.5	772.6	763.1	752.7	743.2
C360.0	850.0	835.1	836.2	837.1	840.1	844.8	847.8	853.8	859.7	867.8
C\G	G10.0	G11.0	G12.0	G13.0	G14.0	G15.0	G16.0	G17.0	G18.0	G19.0
C0.0	875.6	884.5	895.0	905.4	916.1	931.1	944.0	959.3	977.5	1000.2
C45.0	975.8	988.0	1000.9	1013.5	1026.1	1040.6	1055.3	1066.3	1081.7	1099.0
C90.0	977.5	983.9	987.6	990.3	992.5	994.0	994.6	994.0	994.5	992.0
C135.0	1019.6	1040.9	1064.9	1084.2	1109.0	1135.8	1162.2	1192.3	1223.7	1263.4
C180.0	917.1	935.4	954.1	980.5	1006.9	1040.3	1073.8	1117.6	1160.9	1206.5
C225.0	769.0	763.3	757.4	752.2	749.1	747.1	747.5	748.0	747.9	749.1
C270.0	698.7	687.2	677.8	670.6	663.3	658.1	650.6	645.4	638.7	632.8
C315.0	733.7	726.5	719.1	712.1	706.2	699.2	695.5	688.8	686.3	683.0
C360.0	875.6	884.5	895.0	905.4	916.1	931.1	944.0	959.3	977.5	1000.2
C\G	G20.0	G21.0	G22.0	G23.0	G24.0	G25.0	G26.0	G27.0	G28.0	G29.0
C0.0	1024.1	1049.8	1079.4	1114.2	1146.9	1180.1	1209.4	1240.2	1260.3	1279.7
C45.0	1115.3	1130.9	1149.4	1170.4	1189.6	1208.8	1226.0	1244.5	1257.1	1267.0
C90.0	991.3	989.1	984.4	976.9	966.8	954.1	945.5	934.7	922.7	909.2
C135.0	1305.8	1349.5	1396.2	1443.8	1480.9	1505.3	1516.1	1514.3	1504.2	1494.9
C180.0	1249.7	1281.8	1306.7	1322.1	1331.0	1336.1	1342.6	1351.9	1364.6	1377.7
C225.0	751.1	753.2	753.8	756.8	758.4	760.1	760.8	760.2	757.7	753.1
C270.0	627.4	620.2	610.0	600.5	588.6	575.0	558.1	542.0	522.9	503.9
C315.0	679.8	676.4	673.9	671.7	668.5	666.0	663.3	662.2	657.8	654.5
C360.0	1024.1	1049.8	1079.4	1114.2	1146.9	1180.1	1209.4	1240.2	1260.3	1279.7
C\G	G30.0	G31.0	G32.0	G33.0	G34.0	G35.0	G36.0	G37.0	G38.0	G39.0
C0.0	1291.7	1305.0	1316.7	1328.5	1341.7	1354.0	1365.5	1377.9	1398.2	1417.0
C45.0	1274.3	1277.9	1278.6	1278.1	1276.3	1271.8	1265.0	1254.2	1238.4	1218.3
C90.0	895.6	880.8	865.1	850.1	837.8	822.7	807.8	796.7	788.2	777.3
C135.0	1488.1	1483.8	1481.6	1479.8	1475.9	1473.9	1467.7	1458.3	1440.9	1418.5
C180.0	1391.9	1410.2	1432.8	1454.2	1476.8	1502.4	1532.1	1570.8	1611.0	1658.1
C225.0	747.5	739.8	729.0	716.8	702.6	686.8	667.1	645.5	623.3	599.6
C270.0	480.6	459.2	438.4	416.5	390.9	368.7	349.7	330.5	310.1	293.4
C315.0	650.0	646.1	640.5	634.6	626.5	618.1	607.5	596.7	584.1	571.2
C360.0	1291.7	1305.0	1316.7	1328.5	1341.7	1354.0	1365.5	1377.9	1398.2	1417.0

Light intensity data Unit[cd]

C\G	G40.0	G41.0	G42.0	G43.0	G44.0	G45.0	G46.0	G47.0	G48.0	G49.0
C0.0	1437.3	1459.6	1485.8	1512.0	1544.7	1581.3	1628.5	1679.4	1734.0	1791.4
C45.0	1195.3	1167.4	1136.1	1106.5	1076.3	1041.9	1006.0	975.6	950.5	925.4
C90.0	769.4	762.9	755.0	744.4	729.7	712.0	690.3	661.7	625.1	588.1
C135.0	1392.1	1362.5	1328.7	1296.9	1261.8	1225.9	1189.4	1161.8	1137.2	1109.2
C180.0	1714.1	1768.1	1829.5	1892.0	1956.8	2010.1	2057.8	2090.5	2104.3	2101.3
C225.0	571.2	546.4	520.3	492.4	464.4	439.1	412.7	388.0	361.2	337.7
C270.0	278.6	263.9	251.4	239.3	228.0	217.5	207.0	196.6	179.2	170.0
C315.0	553.8	537.5	519.5	500.5	479.3	457.2	437.5	413.8	388.9	365.7
C360.0	1437.3	1459.6	1485.8	1512.0	1544.7	1581.3	1628.5	1679.4	1734.0	1791.4
C\G	G50.0	G51.0	G52.0	G53.0	G54.0	G55.0	G56.0	G57.0	G58.0	G59.0
C0.0	1856.6	1909.5	1953.2	1987.5	2004.2	2004.0	1985.3	1939.2	1870.3	1774.2
C45.0	905.3	893.1	878.7	862.7	840.8	813.7	781.1	730.6	681.1	623.3
C90.0	549.7	506.2	458.3	415.2	371.2	330.9	285.5	237.0	187.4	152.4
C135.0	1084.2	1055.3	1019.6	974.0	927.5	873.7	808.9	732.0	657.4	579.3
C180.0	2078.1	2024.1	1950.3	1854.5	1741.9	1585.8	1427.8	1255.8	1078.7	878.0
C225.0	314.9	292.3	271.6	254.2	236.3	212.2	195.9	184.6	172.6	161.8
C270.0	161.3	148.0	130.7	118.2	111.0	106.7	102.4	99.1	94.7	92.0
C315.0	342.5	317.6	295.0	272.4	252.6	230.0	212.6	193.9	179.2	165.9
C360.0	1856.6	1909.5	1953.2	1987.5	2004.2	2004.0	1985.3	1939.2	1870.3	1774.2
C\G	G60.0	G61.0	G62.0	G63.0	G64.0	G65.0	G66.0	G67.0	G68.0	G69.0
C0.0	1642.6	1476.1	1303.2	1112.4	914.6	726.5	494.6	372.4	291.4	211.1
C45.0	563.3	493.9	431.6	370.6	315.3	266.1	232.0	203.8	179.6	157.8
C90.0	134.3	124.5	113.3	95.7	81.0	77.6	74.9	73.0	71.9	69.5
C135.0	502.7	422.2	358.9	307.4	267.0	231.8	202.9	175.6	148.9	123.0
C180.0	715.9	581.3	467.1	365.5	270.2	191.2	152.8	121.4	104.0	91.1
C225.0	152.3	142.0	134.0	124.5	116.2	109.4	101.1	93.0	84.9	79.1
C270.0	85.7	76.3	75.3	74.9	73.6	73.6	78.0	73.1	71.1	71.1
C315.0	154.8	146.5	137.6	129.1	122.5	115.0	107.8	100.2	94.3	86.8
C360.0	1642.6	1476.1	1303.2	1112.4	914.6	726.5	494.6	372.4	291.4	211.1
C\G	G70.0	G71.0	G72.0	G73.0	G74.0	G75.0	G76.0	G77.0	G78.0	G79.0
C0.0	157.8	127.3	108.6	81.6	68.4	55.3	48.1	36.5	25.0	18.2
C45.0	143.5	128.6	112.6	82.5	72.6	62.0	50.7	38.1	26.1	20.0
C90.0	67.2	63.4	59.4	57.1	52.8	49.4	46.9	43.3	40.3	38.5
C135.0	104.3	88.9	70.2	50.7	42.1	34.5	28.8	22.9	18.6	15.3
C180.0	82.5	67.2	52.1	41.9	33.6	25.7	18.0	10.7	8.7	7.9
C225.0	70.8	65.2	56.6	47.3	38.8	33.3	28.2	22.7	18.3	13.0
C270.0	69.3	66.3	64.0	60.2	57.0	53.0	48.4	43.7	39.0	34.2
C315.0	79.9	73.3	62.9	52.3	46.6	41.0	35.4	27.3	22.7	18.3
C360.0	157.8	127.3	108.6	81.6	68.4	55.3	48.1	36.5	25.0	18.2

Light intensity data Unit[cd]

C\G	G80.0	G81.0	G82.0	G83.0	G84.0	G85.0	G86.0	G87.0	G88.0	G89.0
C0.0	8.1	5.1	4.4	3.6	3.8	4.6	5.1	5.5	6.1	5.3
C45.0	16.8	12.8	10.3	9.2	8.1	7.1	6.1	5.6	6.1	5.3
C90.0	35.2	32.9	28.4	25.7	25.0	22.1	18.2	15.7	13.0	11.6
C135.0	10.8	8.8	7.6	6.4	5.5	5.8	5.6	4.9	4.4	4.9
C180.0	7.3	7.0	7.3	7.6	6.4	5.8	6.9	6.9	6.0	5.8
C225.0	11.0	8.8	7.8	6.4	6.9	6.9	6.9	6.5	6.0	5.8
C270.0	28.8	24.8	21.4	16.2	13.1	8.7	5.3	5.1	2.9	2.8
C315.0	14.4	10.3	8.1	7.8	5.8	5.8	6.5	5.5	5.6	5.6
C360.0	8.1	5.1	4.4	3.6	3.8	4.6	5.1	5.5	6.1	5.3
C\G	G90.0									
C0.0	5.3									
C45.0	5.5									
C90.0	10.3									
C135.0	4.9									
C180.0	6.0									
C225.0	6.1									
C270.0	2.7									
C315.0	6.7									
C360.0	5.3									

Zonal Luminous Flux Data

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [.]	Sum Flux [.]
0.0	849.98	0.00	0.00	0.00	0.00
0.0-1.0	851.71	0.81	0.81	0.03	0.03
1.0-2.0	852.41	2.45	3.26	0.08	0.10
2.0-3.0	853.78	4.08	7.34	0.13	0.23
3.0-4.0	855.08	5.72	13.06	0.18	0.41
4.0-5.0	856.69	7.36	20.42	0.23	0.65
5.0-6.0	858.04	9.01	29.44	0.29	0.93
6.0-7.0	860.57	10.67	40.10	0.34	1.27
7.0-8.0	863.35	12.34	52.44	0.39	1.66
8.0-9.0	867.01	14.02	66.47	0.44	2.10
9.0-10.0	870.88	15.73	82.19	0.50	2.60
10.0-11.0	876.22	17.46	99.65	0.55	3.16
11.0-12.0	882.12	19.22	118.87	0.61	3.76
12.0-13.0	888.62	21.01	139.88	0.67	4.43
13.0-14.0	896.14	22.84	162.73	0.72	5.15
14.0-15.0	905.77	24.74	187.47	0.78	5.94
15.0-16.0	915.44	26.69	214.15	0.85	6.78
16.0-17.0	926.45	28.68	242.84	0.91	7.69
17.0-18.0	938.90	30.76	273.59	0.97	8.66
18.0-19.0	953.25	32.92	306.51	1.04	9.71
19.0-20.0	968.05	35.17	341.68	1.11	10.82
20.0-21.0	981.38	37.43	379.11	1.19	12.01
21.0-22.0	994.22	39.70	418.81	1.26	13.26
22.0-23.0	1007.05	41.99	460.80	1.33	14.59
23.0-24.0	1016.36	44.24	505.04	1.40	15.99
24.0-25.0	1023.18	46.37	551.41	1.47	17.46
25.0-26.0	1027.72	48.41	599.83	1.53	19.00
26.0-27.0	1031.26	50.37	650.20	1.60	20.59
27.0-28.0	1030.93	52.21	702.41	1.65	22.24
28.0-29.0	1030.00	53.92	756.33	1.71	23.95
29.0-30.0	1027.47	55.55	811.88	1.76	25.71
30.0-31.0	1025.36	57.13	869.01	1.81	27.52
31.0-32.0	1022.84	58.68	927.69	1.86	29.38
32.0-33.0	1019.84	60.18	987.86	1.91	31.28
33.0-34.0	1016.05	61.61	1049.48	1.95	33.24
34.0-35.0	1012.31	62.99	1112.47	1.99	35.23
35.0-36.0	1007.78	64.32	1176.79	2.04	37.27
36.0-37.0	1003.83	65.61	1242.40	2.08	39.34
37.0-38.0	999.28	66.86	1309.26	2.12	41.46
38.0-39.0	994.17	68.04	1377.30	2.15	43.62
39.0-40.0	988.99	69.17	1446.47	2.19	45.81

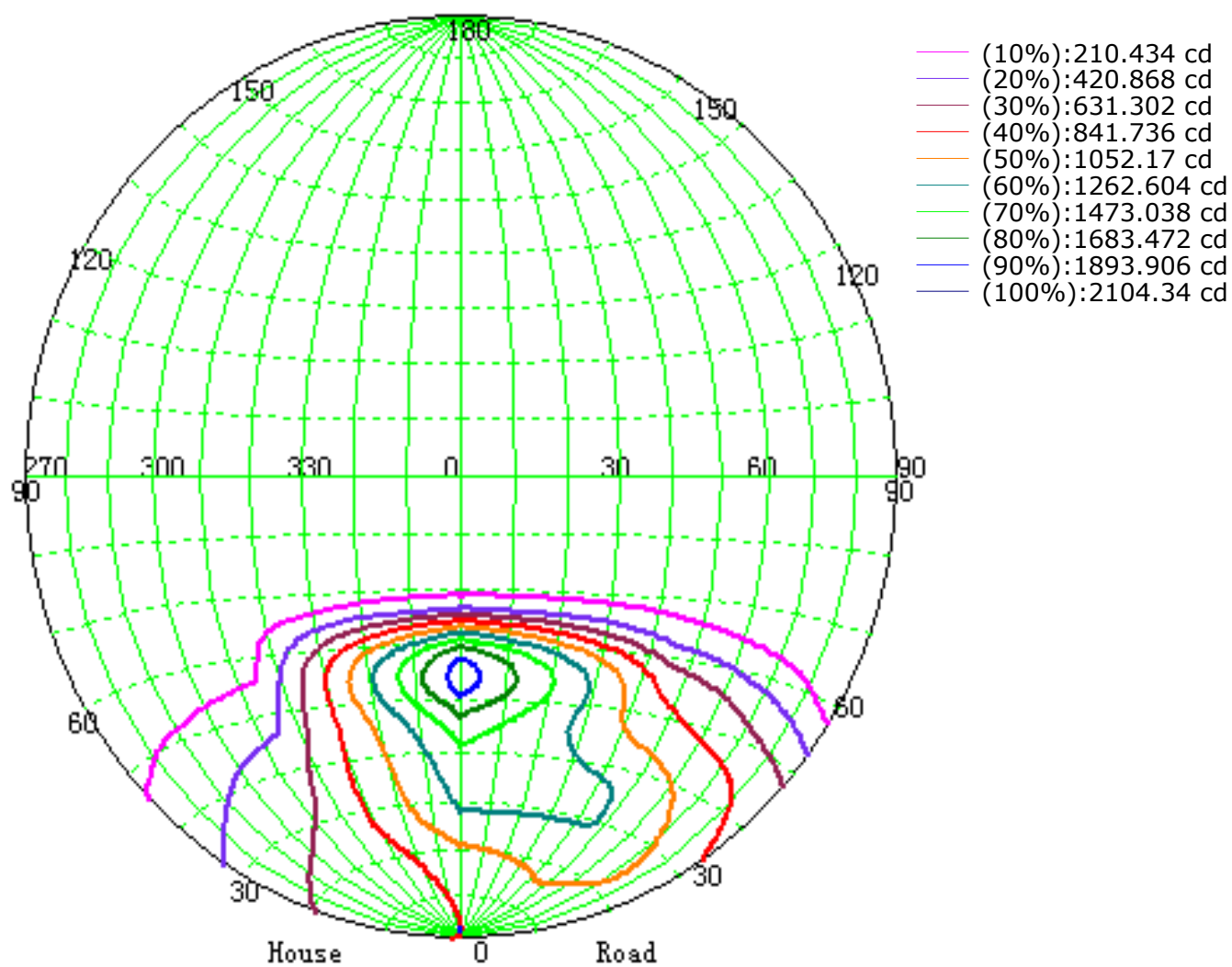
Zonal Luminous Flux Data

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [.]	Sum Flux [.]
40.0-41.0	983.54	70.24	1516.71	2.22	48.03
41.0-42.0	978.28	71.28	1587.98	2.26	50.29
42.0-43.0	973.00	72.28	1660.26	2.29	52.58
43.0-44.0	967.63	73.24	1733.51	2.32	54.90
44.0-45.0	960.61	74.10	1807.61	2.35	57.24
45.0-46.0	953.65	74.86	1882.48	2.37	59.61
46.0-47.0	945.93	75.55	1958.03	2.39	62.01
47.0-48.0	935.05	76.04	2034.07	2.41	64.42
48.0-49.0	923.60	76.33	2110.39	2.42	66.83
49.0-50.0	911.58	76.51	2186.91	2.42	69.26
50.0-51.0	893.27	76.36	2263.27	2.42	71.67
51.0-52.0	869.69	75.65	2338.92	2.40	74.07
52.0-53.0	842.34	74.47	2413.39	2.36	76.43
53.0-54.0	810.70	72.86	2486.25	2.31	78.74
54.0-55.0	769.63	70.54	2556.79	2.23	80.97
55.0-56.0	724.93	67.53	2624.33	2.14	83.11
56.0-57.0	671.54	63.85	2688.18	2.02	85.13
57.0-58.0	615.16	59.50	2747.68	1.88	87.01
58.0-59.0	553.37	54.63	2802.31	1.73	88.74
59.0-60.0	493.95	49.48	2851.79	1.57	90.31
60.0-61.0	432.85	44.23	2896.02	1.40	91.71
61.0-62.0	377.62	39.05	2935.07	1.24	92.95
62.0-63.0	322.51	34.05	2969.12	1.08	94.03
63.0-64.0	270.05	29.08	2998.20	0.92	94.95
64.0-65.0	223.89	24.44	3022.64	0.77	95.72
65.0-66.0	180.49	20.18	3042.82	0.64	96.36
66.0-67.0	151.56	16.70	3059.52	0.53	96.89
67.0-68.0	130.75	14.30	3073.82	0.45	97.34
68.0-69.0	111.20	12.34	3086.16	0.39	97.73
69.0-70.0	96.93	10.69	3096.85	0.34	98.07
70.0-71.0	85.03	9.40	3106.25	0.30	98.37
71.0-72.0	73.30	8.23	3114.48	0.26	98.63
72.0-73.0	59.19	6.93	3121.41	0.22	98.85
73.0-74.0	51.49	5.82	3127.23	0.18	99.03
74.0-75.0	44.28	5.06	3132.29	0.16	99.19
75.0-76.0	38.07	4.37	3136.66	0.14	99.33
76.0-77.0	30.64	3.66	3140.33	0.12	99.45
77.0-78.0	24.82	2.97	3143.30	0.09	99.54
78.0-79.0	20.67	2.44	3145.74	0.08	99.62
79.0-80.0	16.55	2.01	3147.75	0.06	99.68
80.0-81.0	13.83	1.64	3149.39	0.05	99.74

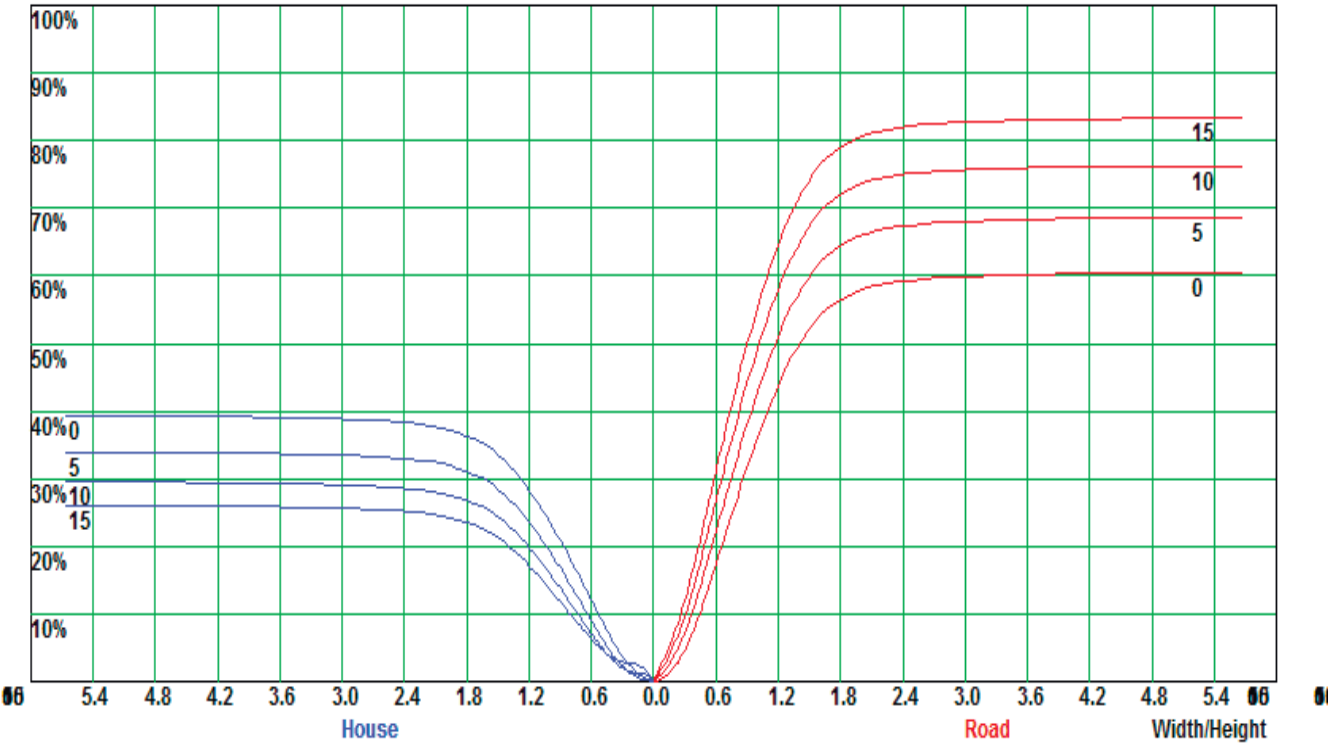
Zonal Luminous Flux Data

[illegible]

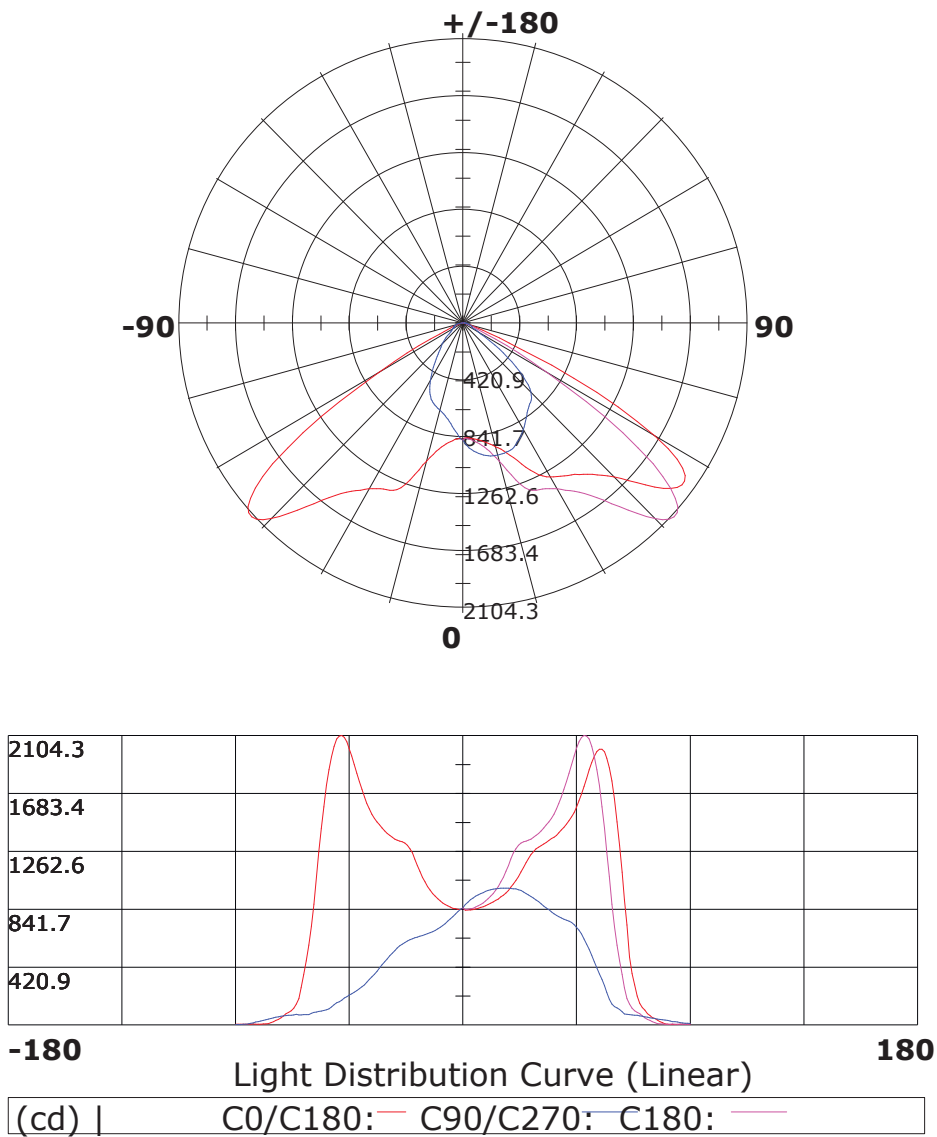
Iso-Candela [cd]

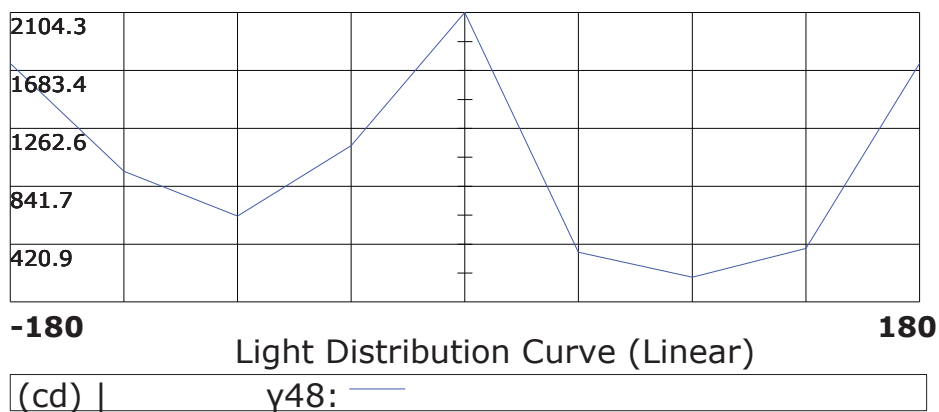
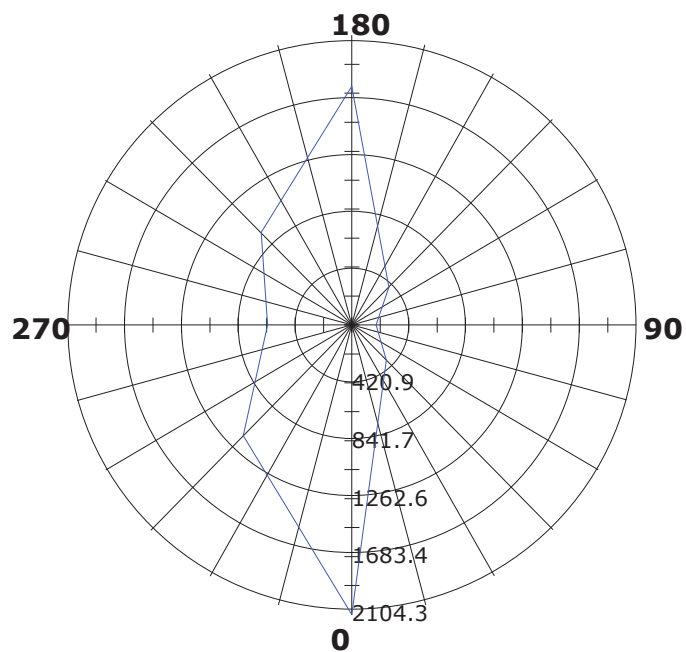


Coefficient Utilization Curve

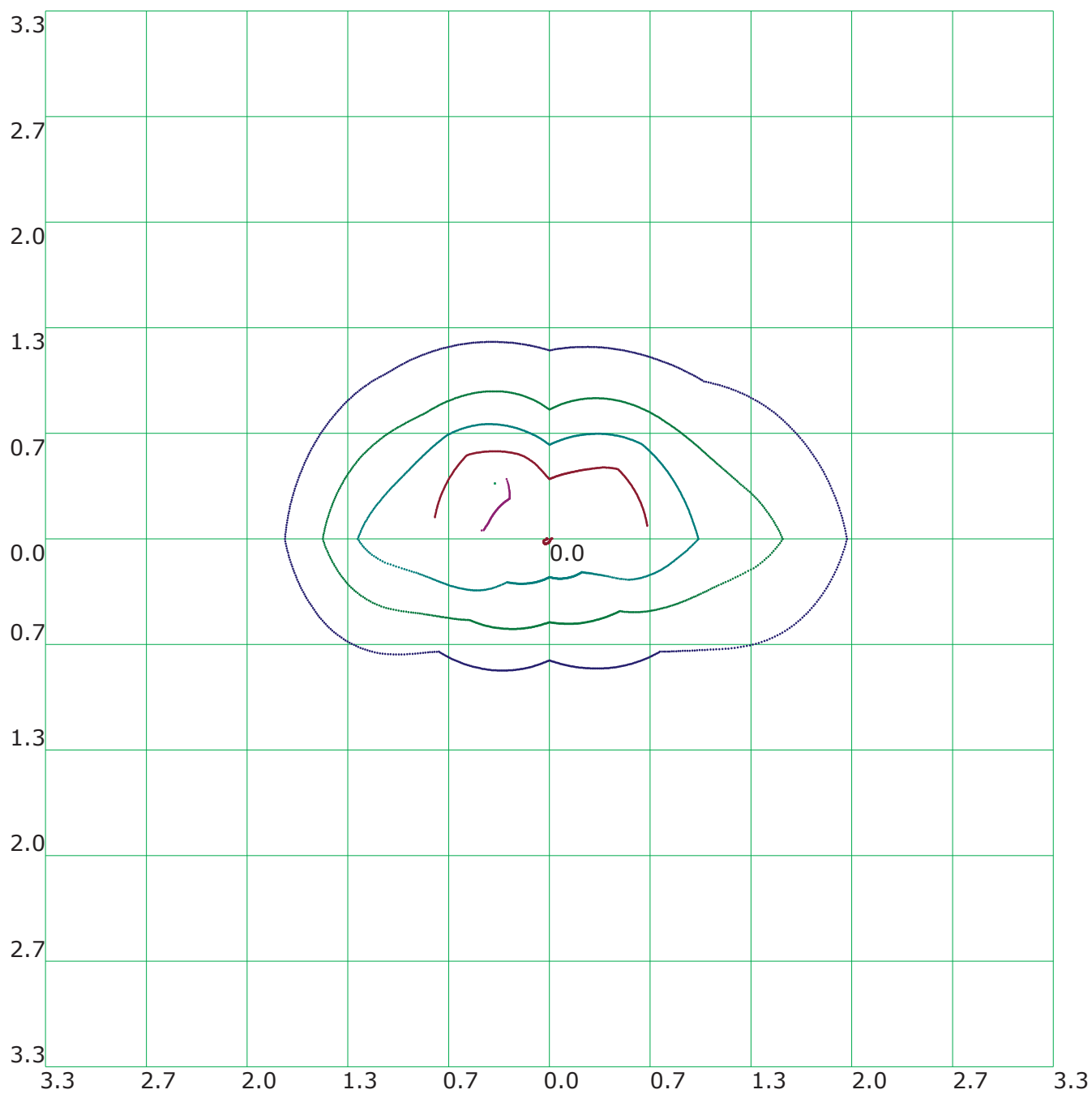


Light Distribution Curve [Unit: cd]





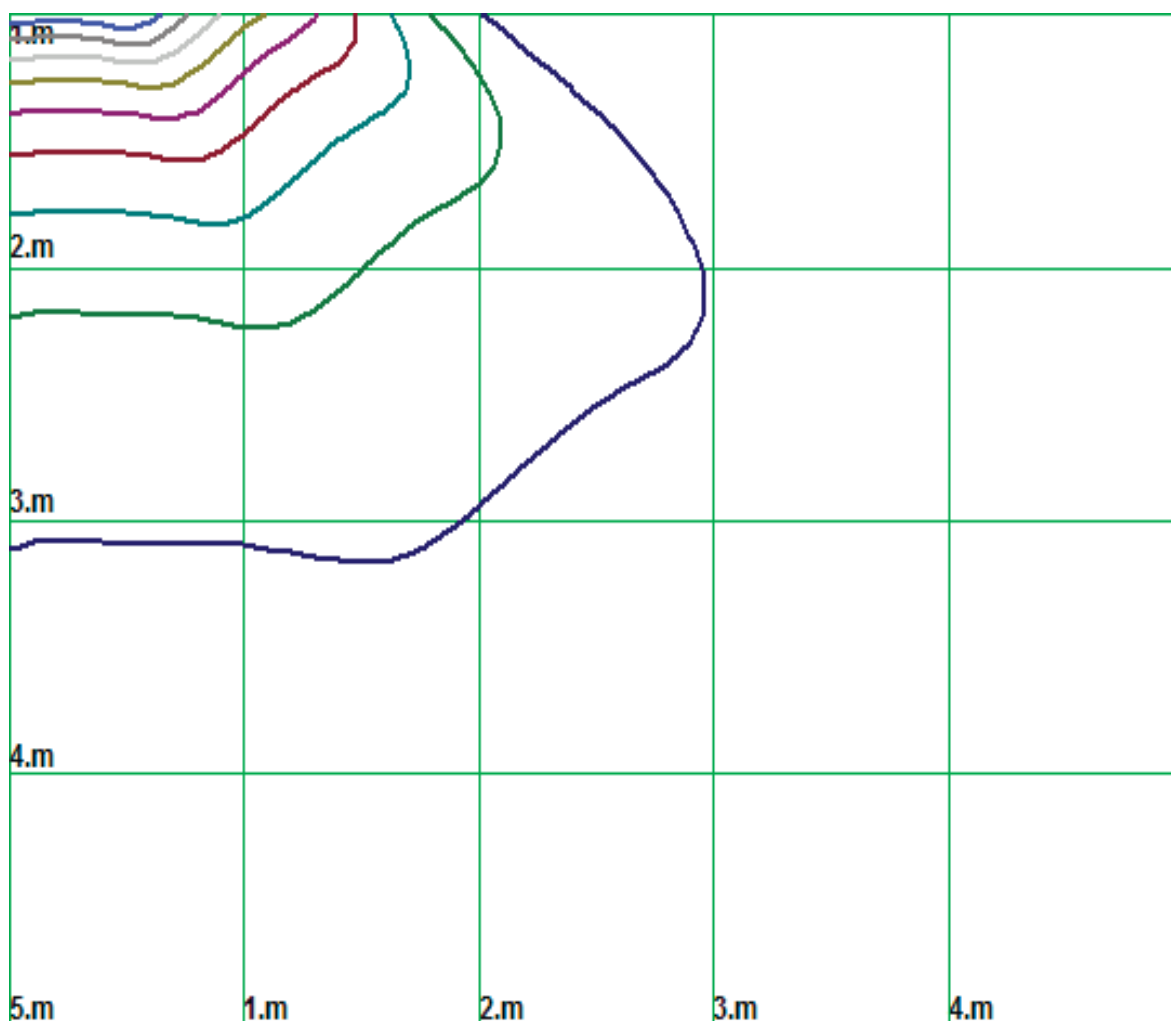
Isolx curve



Height: 1 m

(10%): 210.4lx	(20%): 420.9lx	(30%): 631.3lx	(40%): 841.7lx
(50%): 1052.2lx	(60%): 1262.6lx	(70%): 1473.1lx	(80%): 1683.5lx
(90%): 1893.9lx	(100%): 2102.2lx		

Space Isolx Curve



(10%): 210.4lx	(20%): 420.9lx	(30%): 631.3lx	(40%): 841.7lx
(50%): 1052.2lx	(60%): 1262.6lx	(70%): 1473.1lx	(80%): 1683.5lx
(90%): 1893.9lx	(100%): 2102.2lx		

Luminaire Property

Luminaire Description:

Luminaire Categorie: 50W

Lamp Categorie:

Lamp Description:

Number of Lamp:

Lamp Lumens(lm): 6008.9

Luminous Length(m): 0.0

Luminous Width(m): 0.0

Luminous Height(m): 0.0

Voltage: 220.1 V

Current: 0.356 A

Power: 47.25 W

Power Factor: 0.602

Test Lab: 0

Photometric Type: Type C

Manufactory:

Photometric Results

CIE Class: Direct

Measurement Flux: 6008.90 lm

Efficiency: 127.1725 lm/W

Central Intensity: 1612.769cd

Max. Intensity: 3410.36cd

Field Angle(10%Imax): Left: -121.7 Right:17.6

Max.Intensity Angle: C:0.0 G:51.0

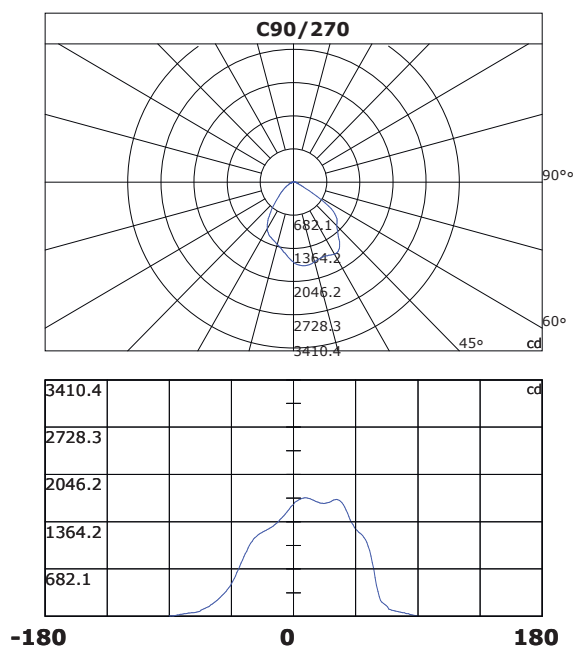
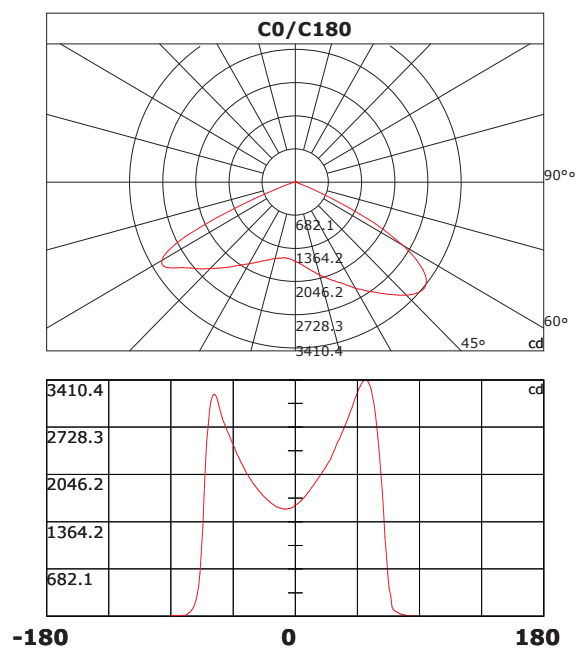
Beam Angle(50%Imax): L: -117.1 R:12.3

Luminaire Efficacy Rating(LER) : 100.00%

Upward Ratio: 0.0%

Downward Ratio: 100.0%

Beamwidth(50%Imax): C0/180=127.55 C90/270=123.16



Light intensity data Unit[cd]

C\G	G0.0	G1.0	G2.0	G3.0	G4.0	G5.0	G6.0	G7.0	G8.0	G9.0
C0.0	1612.8	1611.3	1626.3	1645.0	1662.6	1681.3	1703.7	1727.6	1752.0	1776.7
C45.0	1612.8	1660.8	1682.2	1705.8	1727.4	1749.1	1771.5	1795.1	1817.7	1839.6
C90.0	1612.8	1642.6	1657.3	1670.5	1682.2	1692.9	1699.0	1704.0	1707.7	1708.3
C135.0	1612.8	1612.9	1618.4	1622.9	1627.8	1632.6	1636.5	1640.8	1645.0	1648.9
C180.0	1612.8	1583.8	1571.6	1563.3	1555.6	1549.9	1547.5	1547.2	1545.5	1549.9
C225.0	1612.8	1611.4	1587.4	1564.6	1540.5	1517.2	1496.9	1477.8	1459.4	1442.9
C270.0	1612.8	1598.5	1575.5	1547.5	1523.3	1499.6	1474.8	1450.4	1430.6	1410.2
C315.0	1612.8	1598.2	1589.3	1583.1	1574.6	1565.8	1560.1	1553.4	1546.4	1540.9
C360.0	1612.8	1611.3	1626.3	1645.0	1662.6	1681.3	1703.7	1727.6	1752.0	1776.7
C\G	G10.0	G11.0	G12.0	G13.0	G14.0	G15.0	G16.0	G17.0	G18.0	G19.0
C0.0	1801.7	1830.2	1857.0	1884.8	1913.3	1945.4	1973.5	2001.3	2029.6	2062.7
C45.0	1863.6	1888.0	1911.7	1934.7	1958.7	1987.1	2011.1	2036.3	2063.6	2093.4
C90.0	1705.5	1699.7	1694.9	1685.4	1677.5	1668.7	1658.8	1648.9	1643.2	1634.6
C135.0	1654.1	1662.2	1668.1	1673.9	1681.8	1690.9	1701.0	1711.4	1721.8	1736.3
C180.0	1555.8	1560.8	1568.9	1578.0	1587.7	1600.1	1611.9	1628.3	1643.4	1660.2
C225.0	1425.3	1411.3	1398.5	1384.5	1371.8	1361.7	1350.1	1337.9	1327.8	1317.4
C270.0	1389.5	1367.1	1349.0	1332.1	1316.7	1298.9	1285.5	1273.1	1262.1	1250.3
C315.0	1534.4	1530.3	1526.7	1522.4	1518.8	1517.5	1516.1	1513.1	1513.2	1512.5
C360.0	1801.7	1830.2	1857.0	1884.8	1913.3	1945.4	1973.5	2001.3	2029.6	2062.7
C\G	G20.0	G21.0	G22.0	G23.0	G24.0	G25.0	G26.0	G27.0	G28.0	G29.0
C0.0	2092.5	2121.2	2150.8	2184.9	2215.6	2248.6	2286.7	2339.1	2386.9	2429.6
C45.0	2121.0	2149.4	2179.9	2212.7	2242.7	2271.3	2301.2	2328.4	2352.6	2379.0
C90.0	1631.2	1628.6	1627.6	1629.8	1635.1	1640.2	1646.6	1656.3	1665.8	1675.5
C135.0	1748.4	1762.7	1779.8	1797.9	1818.0	1842.6	1870.3	1899.7	1929.8	1964.8
C180.0	1676.1	1696.9	1714.1	1734.0	1755.9	1778.7	1802.4	1825.8	1852.3	1878.0
C225.0	1310.2	1302.7	1295.1	1289.4	1286.4	1283.1	1280.6	1278.1	1276.3	1273.1
C270.0	1240.4	1229.8	1218.9	1208.8	1197.5	1185.7	1169.7	1153.2	1133.2	1111.2
C315.0	1512.0	1511.4	1511.6	1511.8	1510.9	1510.9	1510.4	1509.6	1511.3	1512.5
C360.0	2092.5	2121.2	2150.8	2184.9	2215.6	2248.6	2286.7	2339.1	2386.9	2429.6
C\G	G30.0	G31.0	G32.0	G33.0	G34.0	G35.0	G36.0	G37.0	G38.0	G39.0
C0.0	2479.0	2522.2	2561.3	2605.1	2653.2	2699.9	2747.4	2795.6	2850.3	2902.4
C45.0	2400.0	2416.5	2429.6	2441.1	2448.0	2450.6	2447.2	2439.8	2423.7	2401.7
C90.0	1682.3	1685.7	1680.7	1673.7	1658.8	1639.9	1610.7	1573.7	1532.5	1486.2
C135.0	2005.4	2042.1	2082.8	2124.1	2169.8	2212.2	2253.8	2293.5	2332.1	2360.6
C180.0	1905.6	1933.5	1963.1	1996.1	2026.8	2060.5	2099.5	2136.6	2173.6	2213.8
C225.0	1269.6	1263.9	1257.8	1246.7	1236.1	1220.3	1201.3	1179.0	1154.1	1123.9
C270.0	1083.3	1053.7	1020.5	984.2	941.6	902.0	859.0	815.0	765.5	720.7
C315.0	1513.7	1515.4	1516.3	1519.0	1518.8	1518.3	1517.7	1513.2	1508.4	1496.9
C360.0	2479.0	2522.2	2561.3	2605.1	2653.2	2699.9	2747.4	2795.6	2850.3	2902.4

Light intensity data Unit[cd]

C\G	G40.0	G41.0	G42.0	G43.0	G44.0	G45.0	G46.0	G47.0	G48.0	G49.0
C0.0	2954.1	3008.3	3067.0	3122.3	3176.8	3226.5	3278.3	3320.3	3357.4	3386.7
C45.0	2372.1	2334.6	2287.9	2238.7	2187.1	2130.1	2086.6	2046.9	2012.4	1984.2
C90.0	1435.3	1393.5	1356.2	1322.6	1286.2	1257.3	1237.0	1218.5	1199.6	1181.5
C135.0	2382.0	2395.0	2399.8	2395.0	2378.8	2342.3	2290.1	2219.9	2137.3	2037.4
C180.0	2256.6	2296.8	2339.7	2385.2	2433.9	2477.7	2522.7	2569.8	2620.9	2664.7
C225.0	1083.5	1046.0	1005.0	961.6	907.2	858.6	806.7	753.6	692.7	638.7
C270.0	676.8	634.4	585.6	545.0	505.2	469.6	434.6	406.1	382.0	357.4
C315.0	1482.0	1462.4	1440.7	1413.2	1377.7	1338.8	1295.0	1247.0	1187.1	1128.6
C360.0	2954.1	3008.3	3067.0	3122.3	3176.8	3226.5	3278.3	3320.3	3357.4	3386.7
C\G	G50.0	G51.0	G52.0	G53.0	G54.0	G55.0	G56.0	G57.0	G58.0	G59.0
C0.0	3405.3	3410.4	3403.4	3377.0	3332.5	3268.9	3173.3	3053.1	2918.0	2756.8
C45.0	1966.5	1950.6	1937.0	1921.2	1901.3	1868.1	1816.6	1731.5	1621.4	1478.6
C90.0	1162.8	1138.6	1105.1	1064.9	1014.6	946.4	870.8	778.3	675.7	555.8
C135.0	1944.5	1857.5	1781.6	1713.9	1676.1	1664.4	1662.9	1669.6	1672.3	1652.9
C180.0	2708.2	2762.5	2813.9	2873.0	2937.9	3022.4	3098.8	3162.5	3197.3	3203.4
C225.0	586.1	537.3	484.5	444.2	406.6	371.6	342.0	316.2	294.5	270.9
C270.0	333.8	313.5	295.9	275.6	253.4	237.2	221.9	205.9	190.7	177.0
C315.0	1066.8	1001.1	923.9	853.9	783.4	712.9	633.5	562.9	496.2	428.2
C360.0	3405.3	3410.4	3403.4	3377.0	3332.5	3268.9	3173.3	3053.1	2918.0	2756.8
C\G	G60.0	G61.0	G62.0	G63.0	G64.0	G65.0	G66.0	G67.0	G68.0	G69.0
C0.0	2566.5	2322.9	2076.0	1794.7	1481.6	1142.0	854.7	600.8	406.6	295.5
C45.0	1310.4	1092.8	897.9	729.0	602.1	512.0	443.8	389.4	339.0	291.6
C90.0	449.1	357.6	280.6	227.0	203.0	186.2	171.5	158.0	134.5	102.5
C135.0	1599.1	1487.4	1331.8	1127.5	896.7	672.3	515.6	393.5	320.6	262.9
C180.0	3171.5	3097.5	2969.3	2762.2	2518.4	2174.5	1756.8	1283.8	910.6	620.6
C225.0	251.5	233.4	213.3	194.3	181.0	169.3	157.6	144.4	133.8	123.4
C270.0	163.9	146.9	136.1	124.1	114.4	104.9	95.9	88.9	69.2	65.0
C315.0	374.3	331.4	296.0	263.8	238.9	214.9	194.3	172.7	154.8	137.6
C360.0	2566.5	2322.9	2076.0	1794.7	1481.6	1142.0	854.7	600.8	406.6	295.5
C\G	G70.0	G71.0	G72.0	G73.0	G74.0	G75.0	G76.0	G77.0	G78.0	G79.0
C0.0	136.7	99.0	76.3	64.7	56.2	46.9	35.4	29.3	25.5	20.3
C45.0	252.8	219.8	186.2	158.6	132.0	76.2	54.1	45.8	39.0	35.1
C90.0	97.3	90.9	85.3	79.1	73.0	69.0	65.6	60.7	57.0	54.2
C135.0	224.8	196.1	164.5	131.8	110.4	92.1	62.3	44.9	39.2	32.9
C180.0	439.8	306.4	220.7	164.7	123.9	91.1	67.5	47.8	33.1	20.9
C225.0	112.2	102.7	93.0	83.2	67.9	58.8	49.8	41.5	33.3	27.9
C270.0	60.2	57.5	54.6	52.7	50.5	48.4	45.8	43.8	39.7	36.7
C315.0	122.8	106.3	94.1	81.6	69.2	48.4	39.5	33.8	27.9	24.1
C360.0	136.7	99.0	76.3	64.7	56.2	46.9	35.4	29.3	25.5	20.3

Light intensity data Unit[cd]

C\G	G80.0	G81.0	G82.0	G83.0	G84.0	G85.0	G86.0	G87.0	G88.0	G89.0
C0.0	14.8	12.2	9.2	8.3	8.1	7.0	7.6	7.8	7.0	7.6
C45.0	27.5	21.8	15.1	12.5	10.1	8.8	6.9	6.9	6.5	6.0
C90.0	50.3	45.1	39.0	35.6	30.6	25.0	19.8	14.1	11.9	9.9
C135.0	28.1	23.0	17.3	13.0	11.7	9.4	8.3	7.9	7.9	7.3
C180.0	14.4	12.6	10.7	9.9	10.1	11.2	9.2	8.8	9.0	9.2
C225.0	24.1	19.1	15.1	13.5	9.9	10.1	11.0	9.6	9.6	8.1
C270.0	32.7	30.2	27.5	21.2	18.9	15.3	11.6	8.5	6.5	6.9
C315.0	21.6	17.7	15.0	11.7	9.4	9.2	8.8	9.6	9.8	8.8
C360.0	14.8	12.2	9.2	8.3	8.1	7.0	7.6	7.8	7.0	7.6
C\G	G90.0									
C0.0	8.1									
C45.0	6.7									
C90.0	8.8									
C135.0	6.1									
C180.0	8.3									
C225.0	7.3									
C270.0	6.1									
C315.0	8.3									
C360.0	8.1									

Zonal Luminous Flux Data

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [.]	Sum Flux [.]
0.0	1612.77	0.00	0.00	0.00	0.00
0.0-1.0	1614.92	1.54	1.54	0.03	0.03
1.0-2.0	1613.51	4.63	6.18	0.08	0.10
2.0-3.0	1612.83	7.72	13.89	0.13	0.23
3.0-4.0	1611.72	10.79	24.69	0.18	0.41
4.0-5.0	1611.04	13.86	38.55	0.23	0.64
5.0-6.0	1611.26	16.93	55.49	0.28	0.92
6.0-7.0	1612.05	20.01	75.49	0.33	1.26
7.0-8.0	1613.04	23.08	98.57	0.38	1.64
8.0-9.0	1614.67	26.16	124.73	0.44	2.08
9.0-10.0	1616.24	29.24	153.97	0.49	2.56
10.0-11.0	1618.72	32.32	186.30	0.54	3.10
11.0-12.0	1621.85	35.42	221.72	0.59	3.69
12.0-13.0	1624.48	38.53	260.25	0.64	4.33
13.0-14.0	1628.29	41.64	301.88	0.69	5.02
14.0-15.0	1633.81	44.78	346.66	0.75	5.77
15.0-16.0	1638.50	47.95	394.61	0.80	6.57
16.0-17.0	1643.77	51.11	445.73	0.85	7.42
17.0-18.0	1650.59	54.32	500.04	0.90	8.32
18.0-19.0	1658.43	57.57	557.61	0.96	9.28
19.0-20.0	1666.46	60.85	618.47	1.01	10.29
20.0-21.0	1675.34	64.17	682.64	1.07	11.36
21.0-22.0	1684.73	67.52	750.16	1.12	12.48
22.0-23.0	1696.17	70.94	821.10	1.18	13.66
23.0-24.0	1707.77	74.42	895.52	1.24	14.90
24.0-25.0	1720.13	77.94	973.47	1.30	16.20
25.0-26.0	1733.49	81.52	1054.99	1.36	17.56
26.0-27.0	1748.77	85.19	1140.18	1.42	18.97
27.0-28.0	1763.53	88.92	1229.11	1.48	20.45
28.0-29.0	1777.95	92.66	1321.76	1.54	22.00
29.0-30.0	1792.37	96.40	1418.16	1.60	23.60
30.0-31.0	1804.12	100.08	1518.25	1.67	25.27
31.0-32.0	1814.00	103.65	1621.90	1.73	26.99
32.0-33.0	1823.74	107.17	1729.07	1.78	28.78
33.0-34.0	1831.65	110.62	1839.69	1.84	30.62
34.0-35.0	1837.97	113.96	1953.66	1.90	32.51
35.0-36.0	1842.07	117.17	2070.83	1.95	34.46
36.0-37.0	1843.31	120.20	2191.03	2.00	36.46
37.0-38.0	1842.51	123.03	2314.05	2.05	38.51
38.0-39.0	1838.28	125.64	2439.69	2.09	40.60
39.0-40.0	1830.31	127.95	2567.64	2.13	42.73

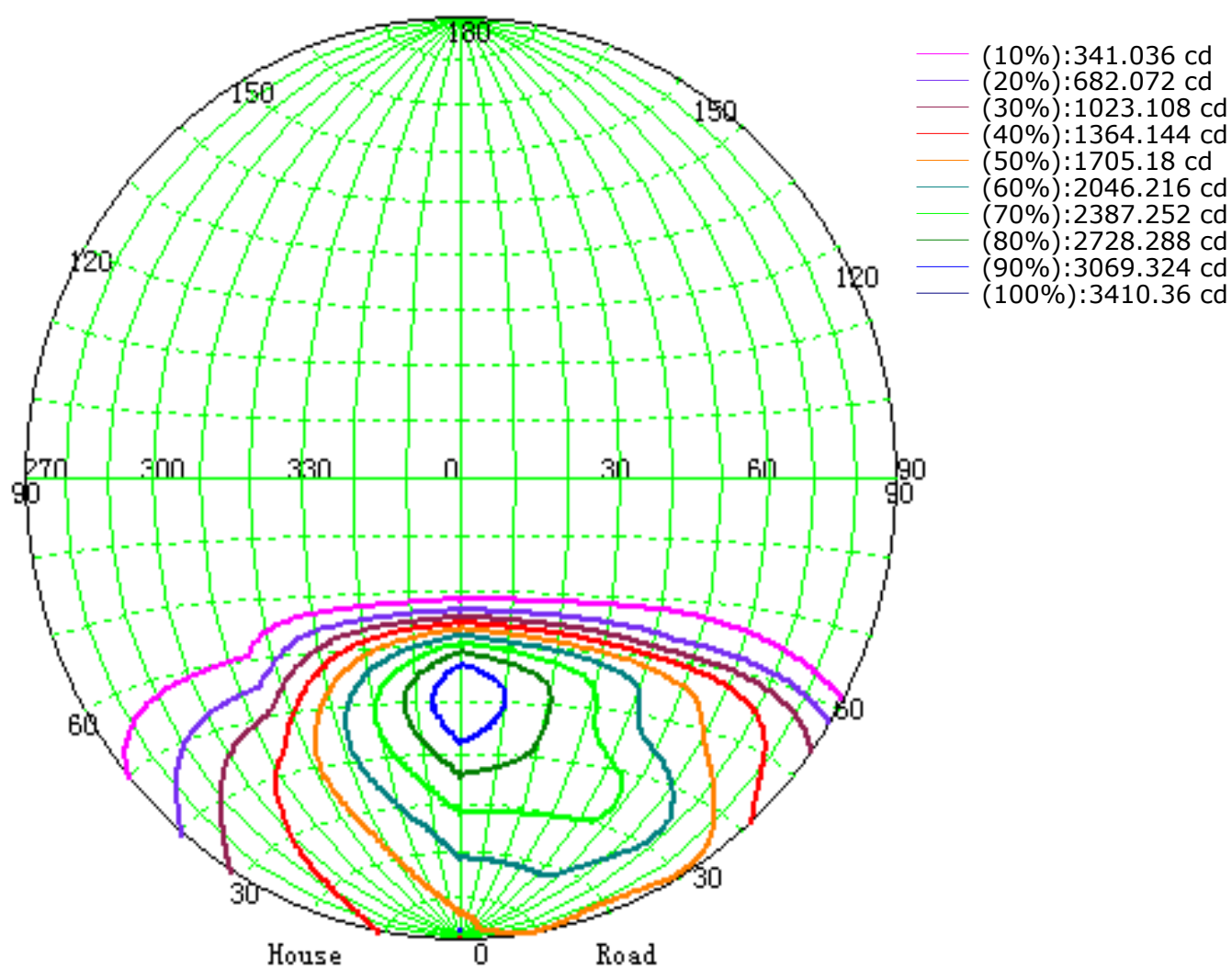
Zonal Luminous Flux Data

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [.]	Sum Flux [.]
40.0-41.0	1821.37	130.03	2697.67	2.16	44.89
41.0-42.0	1810.24	131.94	2829.61	2.20	47.09
42.0-43.0	1797.97	133.66	2963.27	2.22	49.31
43.0-44.0	1781.61	135.10	3098.38	2.25	51.56
44.0-45.0	1762.63	136.21	3234.58	2.27	53.83
45.0-46.0	1743.88	137.13	3371.72	2.28	56.11
46.0-47.0	1722.76	137.88	3509.59	2.29	58.41
47.0-48.0	1698.70	138.31	3647.91	2.30	60.71
48.0-49.0	1672.40	138.44	3786.34	2.30	63.01
49.0-50.0	1646.76	138.39	3924.73	2.30	65.32
50.0-51.0	1621.44	138.27	4063.00	2.30	67.62
51.0-52.0	1593.16	137.94	4200.94	2.30	69.91
52.0-53.0	1565.45	137.40	4338.34	2.29	72.20
53.0-54.0	1538.21	136.80	4475.14	2.28	74.48
54.0-55.0	1511.49	136.13	4611.27	2.27	76.74
55.0-56.0	1477.48	135.06	4746.34	2.25	78.99
56.0-57.0	1435.02	133.17	4879.50	2.22	81.20
57.0-58.0	1383.25	130.33	5009.83	2.17	83.37
58.0-59.0	1315.44	126.17	5135.99	2.10	85.47
59.0-60.0	1235.79	120.53	5256.52	2.01	87.48
60.0-61.0	1133.75	113.08	5369.60	1.88	89.36
61.0-62.0	1025.13	104.03	5473.63	1.73	91.09
62.0-63.0	902.81	93.77	5567.40	1.56	92.65
63.0-64.0	779.52	82.55	5649.95	1.37	94.03
64.0-65.0	647.01	70.60	5720.55	1.17	95.20
65.0-66.0	523.77	58.41	5778.96	0.97	96.17
66.0-67.0	403.96	46.65	5825.61	0.78	96.95
67.0-68.0	308.64	36.10	5861.71	0.60	97.55
68.0-69.0	237.38	27.86	5889.56	0.46	98.01
69.0-70.0	180.83	21.48	5911.04	0.36	98.37
70.0-71.0	147.33	16.96	5928.00	0.28	98.65
71.0-72.0	121.84	14.00	5942.00	0.23	98.89
72.0-73.0	102.03	11.71	5953.70	0.19	99.08
73.0-74.0	85.39	9.85	5963.56	0.16	99.25
74.0-75.0	66.34	8.02	5971.57	0.13	99.38
75.0-76.0	52.52	6.31	5977.88	0.11	99.48
76.0-77.0	43.48	5.12	5983.00	0.09	99.57
77.0-78.0	36.83	4.30	5987.30	0.07	99.64
78.0-79.0	31.51	3.67	5990.97	0.06	99.70
79.0-80.0	26.70	3.14	5994.11	0.05	99.75
80.0-81.0	22.71	2.67	5996.78	0.04	99.80

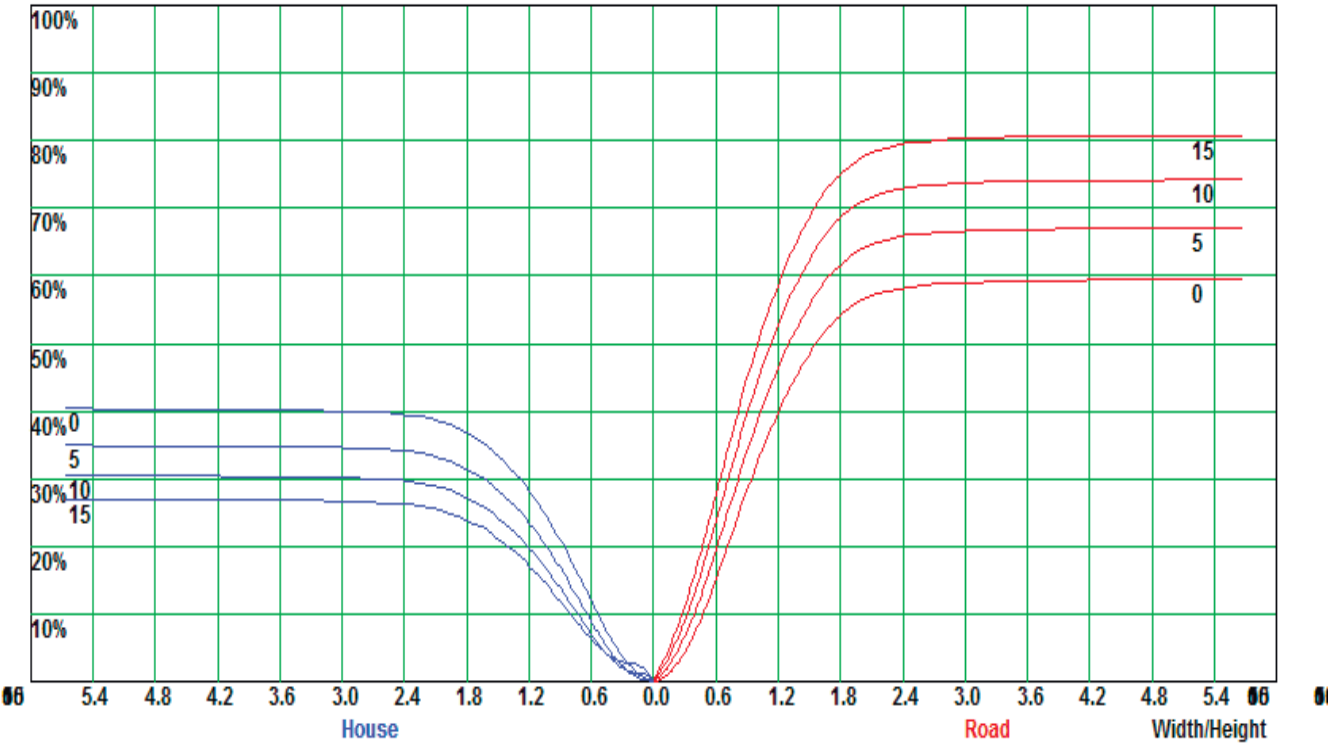
Zonal Luminous Flux Data

[illegible]

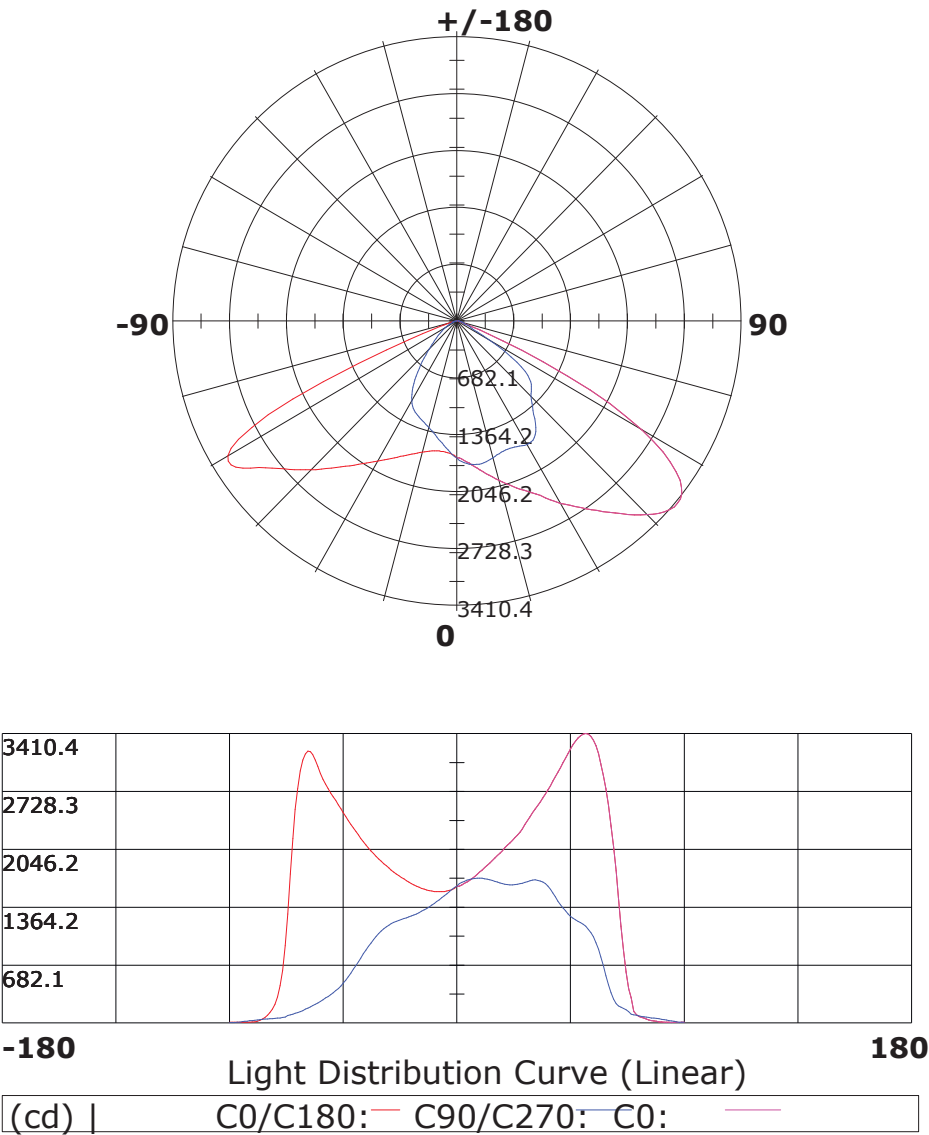
Iso-Candela [cd]

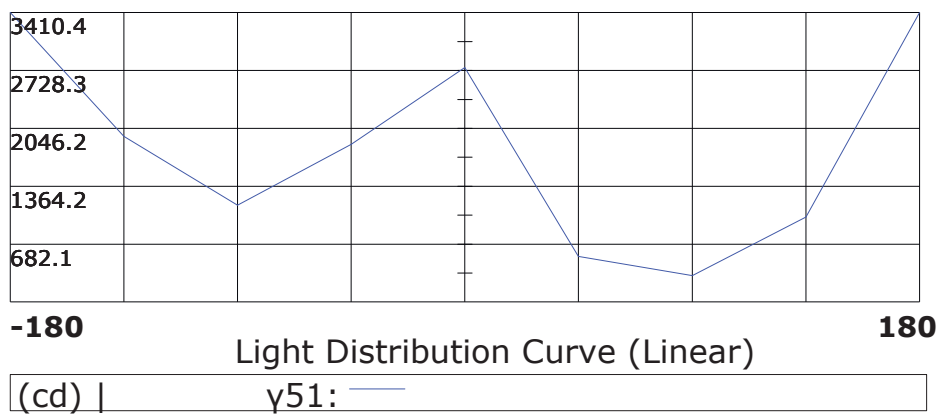
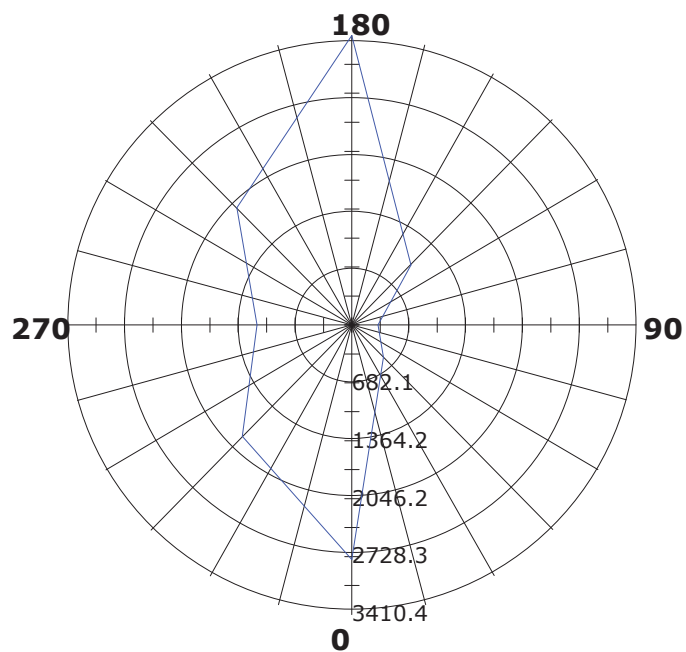


Coefficient Utilization Curve

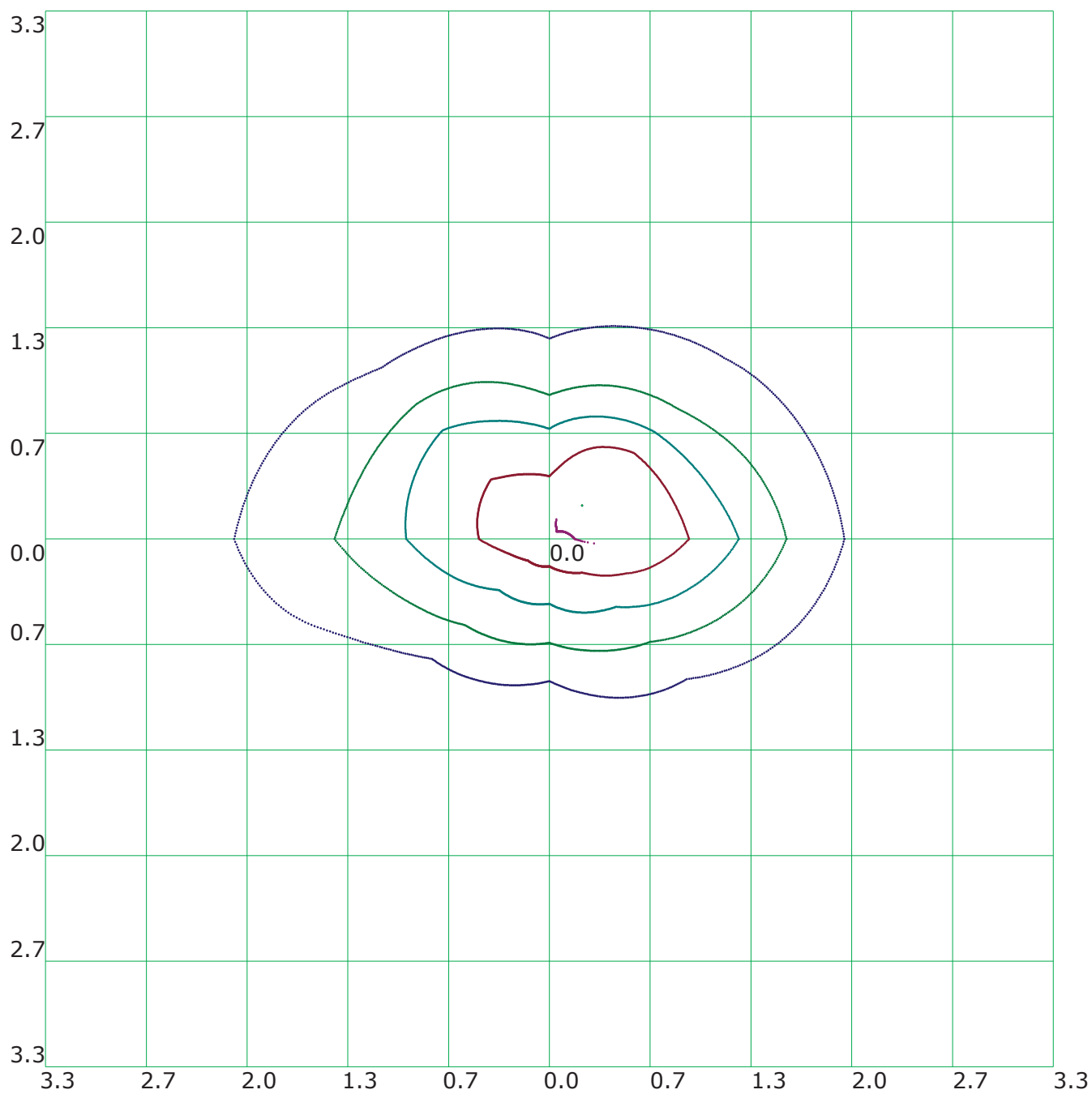


Light Distribution Curve [Unit: cd]





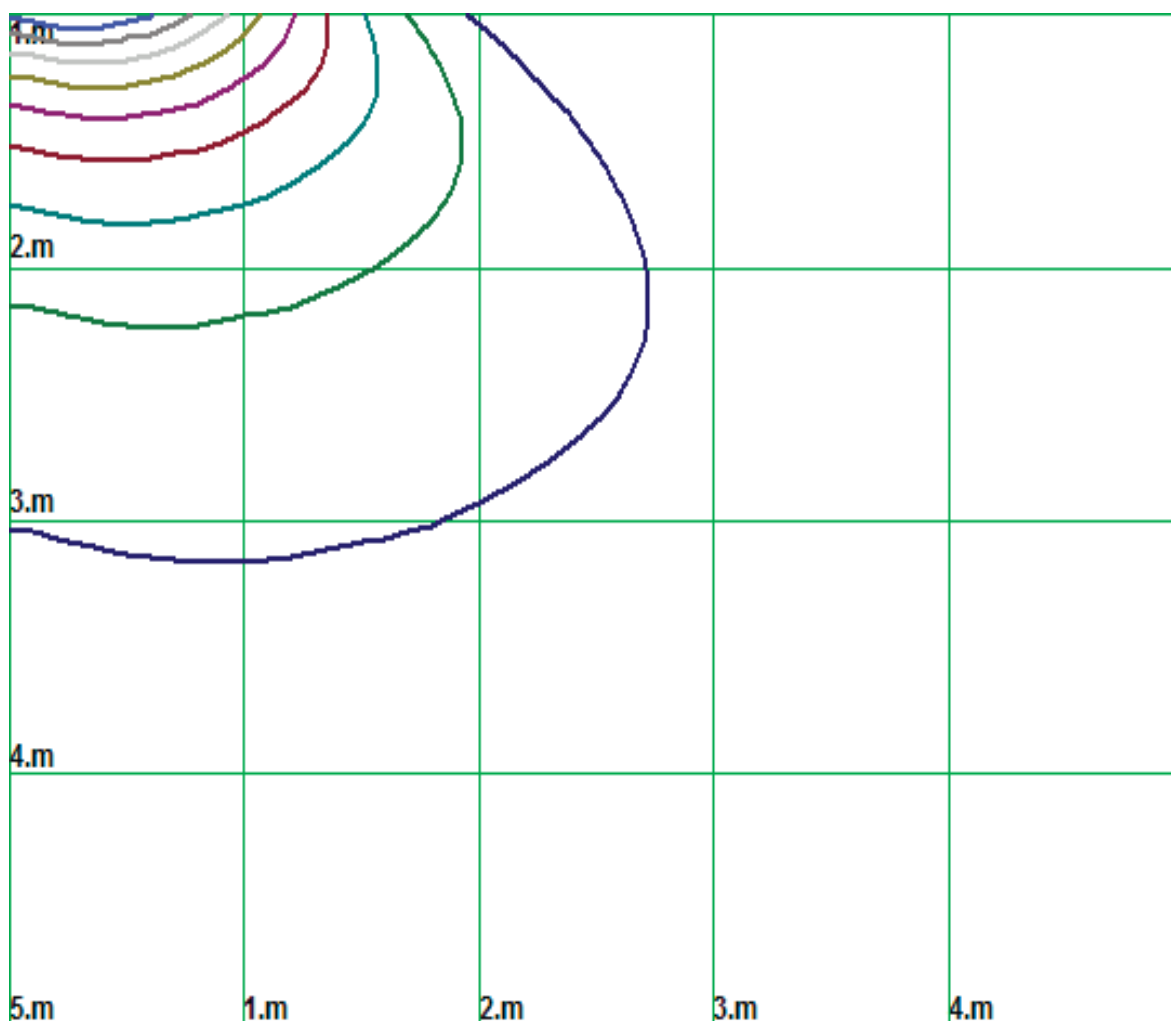
Isolx curve



Height: 1 m

(10%): 341.1lx	(20%): 682.1lx	(30%): 1023.1lx	(40%): 1364.1lx
(50%): 1705.2lx	(60%): 2046.2lx	(70%): 2387.3lx	(80%): 2728.3lx
(90%): 3069.3lx	(100%): 3407.1lx		

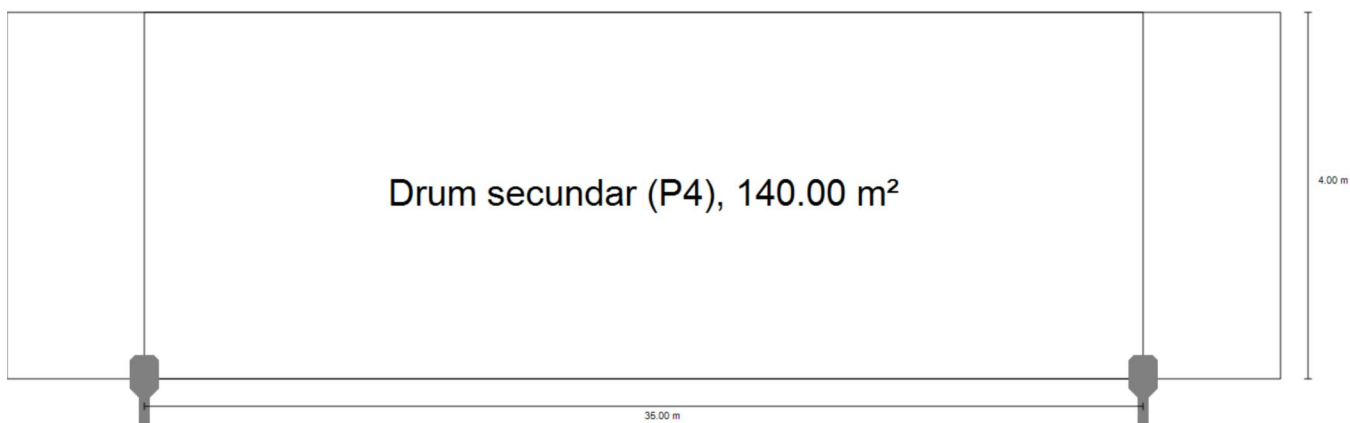
Space Isolx Curve



(10%): 341.1x (20%): 682.1x (30%): 1023.1x (40%): 1364.1x
(50%): 1705.2x (60%): 2046.2x (70%): 2387.3x (80%): 2728.3x
(90%): 3069.3x (100%): 3407.1x

Улица 1 · Альтернатива 1

Rezumat (până la EN 13201:2015)



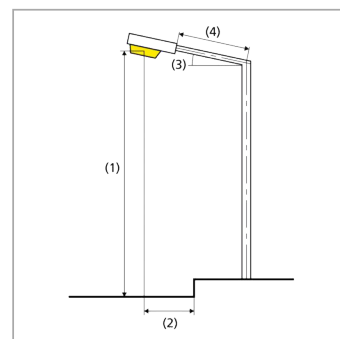
Улица 1 · Альтернатива 1

Rezumat (până la EN 13201:2015)

Producător		P	30.0 W
Nr.articol		$\Phi_{\text{Lampă}}$	3690 lm
Nume articol	Corp de iluminat stradal LED 30W 6K-6.5K BULB	$\Phi_{\text{Corp de iluminat}}$	3367 lm
Dotare	definit de utilizator	η	91.24 %

Corp de iluminat stradal LED 30W 6K-6.5K BULB (Pe o parte Jos)

Distanță stâlp	35.000 m
(1) Înălțimea punctului de lumină	6.800 m
(2) Ieșirea în consolă a punctului de lumină	0.000 m
(3) Înclinare consolă	15.0°
(4) Lungime consolă	0.500 m
Număr anual de ore de funcționare	4000 h: 100.0 %, 30.0 W
Consum	870.0 W/km
ULR / ULOR	0.01 / 0.01
Intensități luminoase max.	≥ 70°: 472 cd/klm
Orice direcție ce formează unghiul dat cu verticala	≥ 80°: 180 cd/klm
în jos a corpurilor de iluminat instalate pentru utilizare.	≥ 90°: 76.8 cd/klm
Clasă intensitate luminoasă	-
Valorile intensității luminoase în [cd/klm] pentru calculul clasei intensității luminoase se referă la fluxul luminos al corpului de iluminat, conform EN 13201:2015.	



Улица 1 · Альтернатива 1

Rezumat (până la EN 13201:2015)

Clasă index ornamente

D.4

Rezultate pentru câmpurile de evaluare

	Mărime	Calculat	Nominal	Conform
Drum secundar (P4)	$E_m^{(2)}$	2.92 lx	[2.00 - 3.00] lx	✓
	$E_{min}^{(2)}$	0.94 lx	≥ 0.60 lx	✓

(2) Valoare nominală modificată de proiectant, abatere de la standard

Pentru instalare s-a luat în calcul un factor de întreținere de 0.85.

Rezultate pentru indicatorii de eficiență energetică

	Mărime	Calculat	Consum
Улица 1	D_p	0.073 W/lx*m ²	-
Corp de iluminat stradal LED 30W 6K-6.5K BULB (Pe o parte Jos)	D_e	0.9 kWh/m ² an	120.0 kWh/an

Улица 1 · Альтернатива 1

Drum secundar (P4)

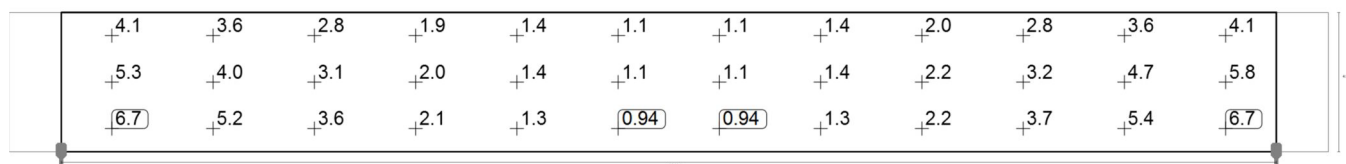
Rezultate pentru câmpul de evaluare

	Mărire	Calculat	Nominal	Conform
Drum secundar (P4)	$E_m^{(2)}$	2.92 lx	[2.00 - 3.00] lx	✓
	$E_{min}^{(2)}$	0.94 lx	≥ 0.60 lx	✓

(2) Valoare nominală modificată de proiectant, abatere de la standard



Valoarea de întreținere, intensitatea de iluminare orizontală [lx] (Linii Isolux)



Valoarea de întreținere, intensitatea de iluminare orizontală [lx] (Raster valoric)

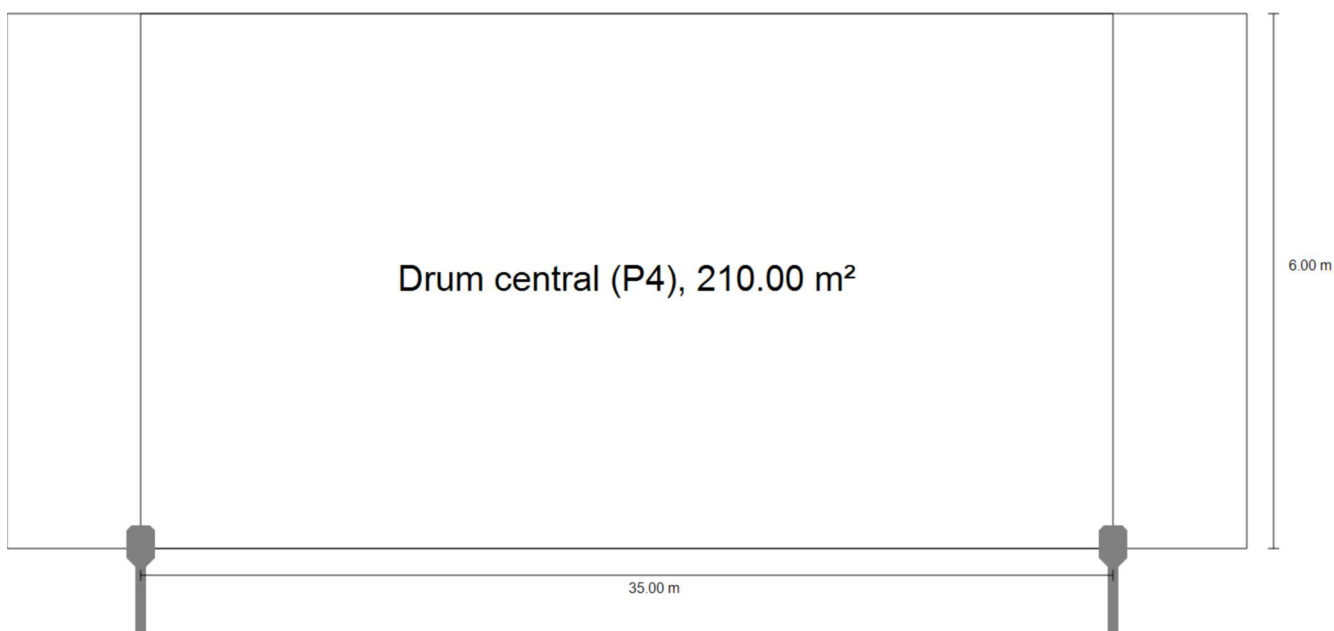
m	1.458	4.375	7.292	10.208	13.125	16.042	18.958	21.875	24.792	27.708	30.625	33.542
3.333	4.10	3.59	2.76	1.93	1.35	1.07	1.09	1.39	1.98	2.81	3.63	4.12
2.000	5.26	4.04	3.10	2.03	1.38	1.10	1.12	1.41	2.18	3.17	4.69	5.80
0.667	6.67	5.25	3.58	2.13	1.27	0.94	0.94	1.28	2.17	3.68	5.45	6.75

Valoarea de întreținere, intensitatea de iluminare orizontală [lx] (Tabel de valori)

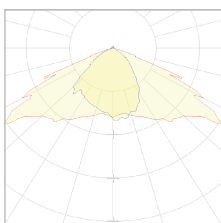
	E_m	E_{min}	E_{max}	g_1	g_2
Valoarea de întreținere, intensitatea de iluminare orizontală	2.92 lx	0.94 lx	6.75 lx	0.321	0.139

Улица 1 · Альтернатива 1

Rezumat (până la EN 13201:2015)



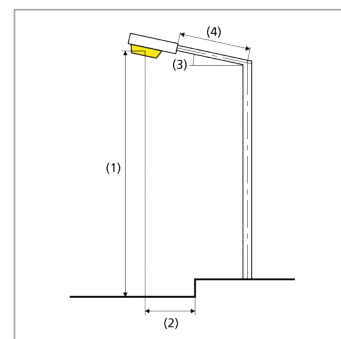
Улица 1 · Альтернатива 1

Rezumat (până la EN 13201:2015)

Producător		P	50.0 W
Nr.articol		$\Phi_{\text{Lampă}}$	5005 lm
Nume articol	Corp de iluminat stradal LED 50W 6500K BULB	$\Phi_{\text{Corp de iluminat}}$	4566 lm
Dotare	1x LED	η	91.24 %

Corp de iluminat stradal LED 50W 6500K BULB (Pe o parte Jos)

Distanță stâlp	35.000 m
(1) Înălțimea punctului de lumină	6.800 m
(2) Ieșirea în consolă a punctului de lumină	0.000 m
(3) Înclinare consolă	15.0°
(4) Lungime consolă	1.000 m
Număr anual de ore de funcționare	4000 h: 100.0 %, 50.0 W
Consum	1450.0 W/km
ULR / ULOR	0.01 / 0.01
Intensități luminoase max.	≥ 70°: 472 cd/klm
Orice direcție ce formează unghiul dat cu verticala	≥ 80°: 180 cd/klm
în jos a corpurilor de iluminat instalate pentru utilizare.	≥ 90°: 76.8 cd/klm
Clasă intensitate luminoasă	-
Valorile intensității luminoase în [cd/klm] pentru calculul clasei intensității luminoase se referă la fluxul luminos al corpului de iluminat, conform EN 13201:2015.	



Улица 1 · Альтернатива 1

Rezumat (până la EN 13201:2015)

Clasă index ornamente

D.3

Rezultate pentru câmpurile de evaluare

	Mărime	Calculat	Nominal	Conform
Drum central (P4)	$E_m^{(2)}$	8.33 lx	[6.00 - 9.00] lx	✓
	E_{min}	3.05 lx	≥ 1.00 lx	✓

(2) Valoare nominală modificată de proiectant, abatere de la standard

Pentru instalare s-a luat în calcul un factor de întreținere de 0.85.

Rezultate pentru indicatorii de eficiență energetică

	Mărime	Calculat	Consum
Улица 1	D_p	0.029 W/lx*m ²	-
Corp de iluminat stradal LED 50W 6500K BULB (Pe o parte Jos)	D_e	1.0 kWh/m ² an	200.0 kWh/an

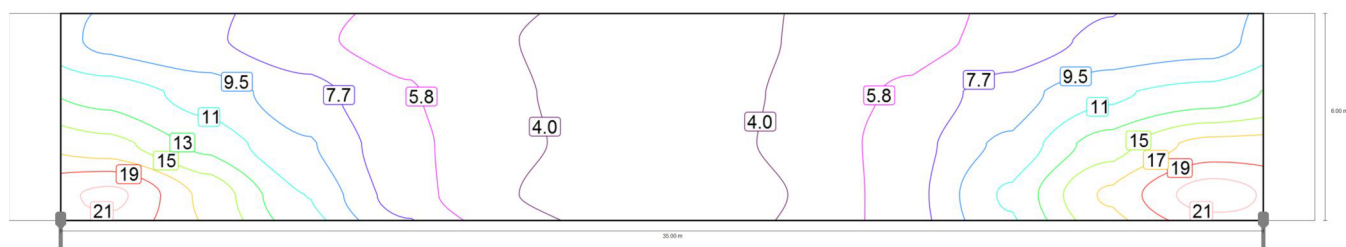
Улица 1 · Альтернатива 1

Drum central (P4)

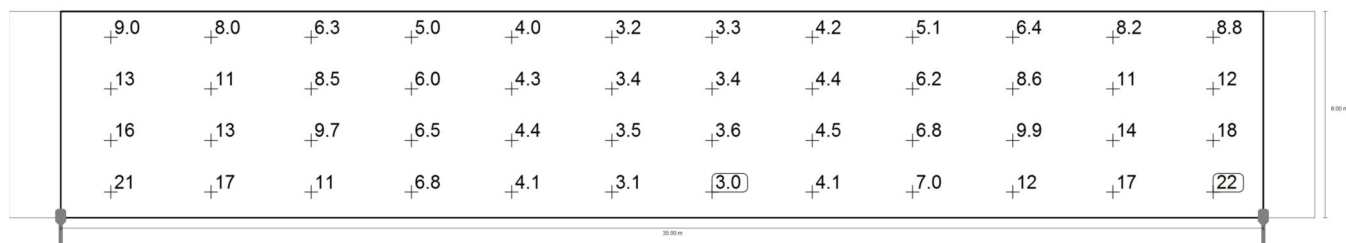
Rezultate pentru câmpul de evaluare

	Mărire	Calculat	Nominal	Conform
Drum central (P4)	$E_m^{(2)}$	8.33 lx	[6.00 - 9.00] lx	✓
	E_{min}	3.05 lx	≥ 1.00 lx	✓

(2) Valoare nominală modificată de proiectant, abatere de la standard



Valoarea de întreținere, intensitatea de iluminare orizontală [lx] (Linii Isolux)



Valoarea de întreținere, intensitatea de iluminare orizontală [lx] (Raster valoric)

m	1.458	4.375	7.292	10.208	13.125	16.042	18.958	21.875	24.792	27.708	30.625	33.542
5.250	9.01	7.96	6.30	4.96	4.04	3.25	3.26	4.18	5.13	6.35	8.19	8.85
3.750	12.62	10.68	8.47	6.04	4.28	3.40	3.43	4.40	6.19	8.63	11.02	12.21
2.250	15.83	12.79	9.73	6.45	4.42	3.52	3.57	4.50	6.84	9.94	14.24	17.60
0.750	21.07	16.56	11.36	6.81	4.08	3.06	3.05	4.14	6.95	11.67	17.26	21.63

Valoarea de întreținere, intensitatea de iluminare orizontală [lx] (Tabel de valori)

	E_m	E_{min}	E_{max}	g_1	g_2
Valoarea de întreținere, intensitatea de iluminare orizontală	8.33 lx	3.05 lx	21.6 lx	0.366	0.141