Wisdom factory

Central Monitoring System

Control Server:
Mining 9.7-inch color LCD touch screen, intuitive SCADA style UI interface can be a s ingle point of control, group control, schedule control, software points can be unlimite d expansion.

Loop control modules:
每個迴路皆採用獨立控制晶片，並透過獨特的定址功能，可無線的擴充控制迴路。
Each circuit are independent control chip, and by addressing the unique function, wir eless control loop expansion.

Infrared appliances Integration Module:
可整合市面上所有品牌的紅外線設備，若遇有特殊功能之紅外線亦可專案開發。
You can integrate the market for all brands of infrared equipment, in case there is als o a special feature of the infrared ad hoc development.

Central Monitoring System

Our System software is an open platform design, the general standard operating system sof tware WIN7, XP to the operating system supports multi-tasking, and also managed the switchbo ard mutual backup, the system will not crash caused by a host paralysis.

MACS is completely independent development and design, mining intuitive dynamic graph c ontrol interface, unlimited scalability for future support, there is no point limit, no limit hardware (provided that they meet RS485, Mode bus, TCP / IP, BAC net , Lon works and other standard communications format), you can easily complete architecture of LAN monitoring system, wheth er it is the generator battery voltage monitoring equipment, water supply and drainage system m onitoring, building lighting control, status monitoring and preservation of the households can co mplete control.

The system can be integrated system interface includes:

> Central EMCS

> Air Monitoring System

> Power quality monitoring Demand Control

> Fire Disaster Monitoring System
(fire-fighting equipment must be compatible with manufacturers to provide integrated communications format)

> Two-wire lighting control system
(two-wire device manufacturers are required to provide integrated communications format)

> Elevator operation monitoring and management system
(elevator equipment manufacturers have provided with the communication format)

> Access Control Management System

> Security alarm monitoring management system

> Digital video surveillance management system

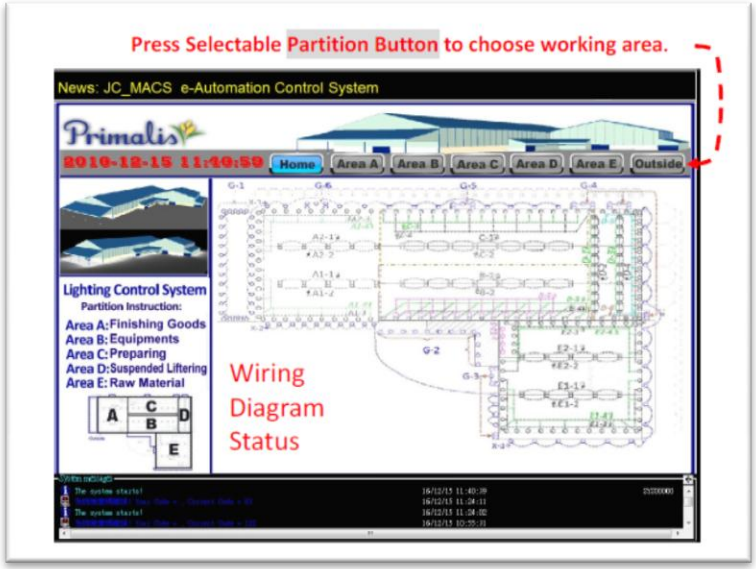
Power Quality Monitoring System

Planning and Design:

Case planning and design of high voltage electricity mainly to the disc, on-sit e monitoring of low-voltage electricity sub-plate HTM, HT1, HT2, EMP # 1 # 2 # 3, MBA # 1, MPB # 1.

- > Data Commuication:

  C, V, F, PF, KW, KVAR, VARH, KWHK, VARH, HAMONIC, DEMAND, all of the above values can be monitored via the VIPmulti-function digital form, transmitte d via RS485 communication inreal-time control of the host-side numerical analy sis, demandadjustment uninstalled.



Power Quality Monitoring System

- **> Power overload trip into a state that is monitored:**
  UV (low voltage protection relay status monitoring), CO (overcurrent protection re lay status monitoring), LCO (small forcesovercurrent relay monitoring), OV (overvo ltage protection relaystatus monitoring), OVG (Grounding Overvoltage protection p owerstatus monitoring), NFB trip.
- **> TR # 1, TR # 2 status monitoring**
- > Branch Panel, Branch Panel -1 low voltage power monitoring points on each floo r plate lighting power control panel, control panel power switch circuits, power outl et circuit plate, disk, and other power other electrical circuit voltage, current, thous and watt-hours, and fault trip Remote Contron maintain electrical control translatio n. (Lighting control)
- **Precautions :**

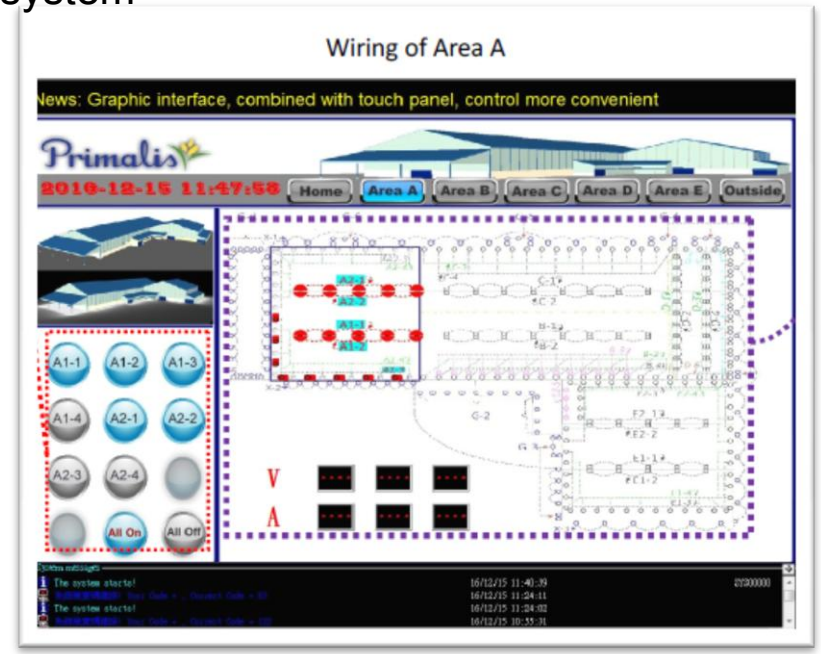
  Power system monitoring to detect all information through digital Collections meter data transmission, can save the extra Transducers and conversion interface, and saves disk space body the construction easier.

Lighting control system

1. Public Space in late at night (or prohibit the use of time) to turn off or turn on the li ghts in public areas on their own particular power and reduce the waste of resour ces and personnel is prohibited to use into the night.
2. Public space can be done in accordance with the set in the evening landscape lig hting situations, and made welcome with a default scenario, romantic ... and other models performance.
3. Community Landscape mode can be set in accordance with the energy saving ti me, the landscape changes and achieve energy savings.
4. Centralized control of landscape lighting, landscape lighting and landscape floor r ooftop public area lighting, lighting hoist acquisition control design. In chronologic al and light to adjust the lighting, and festivals to follow or set the power saving m ode to achieve energy savings can reach all mandatory open warning message w hen the accident occurred.
5. Line construction cost savings, all the lights controlled by the automatic control sy stem, the administrator can force open area lighting.
6. Combined with various types of sensors can be used in the basement lane, throu gh the illumination loop control management or administration, in order to save un necessary energy waste
7. ETAG functions can be implemented integrated lane lanes light guide, so that ten ants have the exclusive honor home.

Chiller monitoring system

> Blower pressure detection operation state monitoring
> Duct smoke detectors sensing monitoring
> Duct temperature Instant Watch
> Real-time monitoring of carbon monoxide concentration
> Air box system water flow control valve proportional output
> Air-conditioning system control box can be divided into the field manual, the remote manual or automatic system
> Control exhaust fan control system, air pressure detection operation status monitori ng, fault trip monitoring, automatic cycle timing control
> VAV BOX CONTROL VAV box controller system
> Instant detect indoor temperature
> On-site detection of bellows Winds
> Bellows speed control adjustment

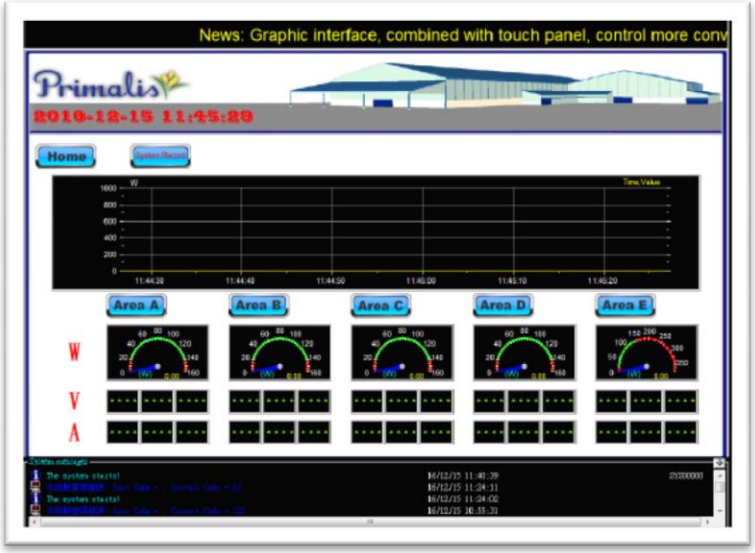


Chiller monitoring system

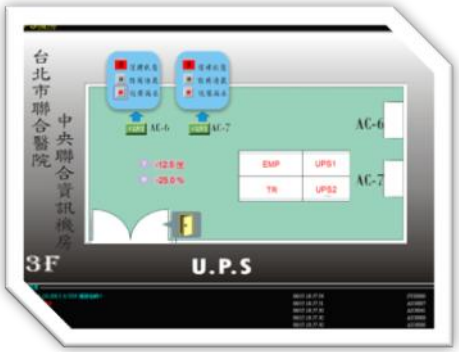
Precautions:

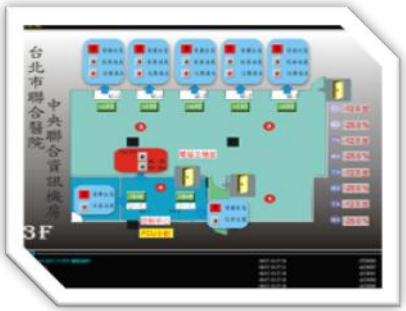
■1. All the above air conditioning system detects the information and control mode must be performed via DDC controller site, holding the operating system is comple tely independent, not because the host system crashes affect all on-site air-conditi oning equipment to perform the operation of the control strategy.

■2. On-site control of all equipment and air-conditioning host air box systems are r equired to do CS switch monitoring, because when field devices throughout the sy stem to release the automatic control strategy, make sure the power switch to Re mote control terminal, to prevent the improper shutdown scene, on the contrary, w hen the control strategy to be handed over to the scene to control the switch must be switched to Local control terminal, the remote control will not work under the im plementation strategy.



Taipei hospital room monitoring system





- **Large energy-saving air-conditioning and humidity control.**
- **Exhaust fan into the best start and stop monitoring.**
- **Domestic water EMCS.**
- **Power usage status monitoring records.**
- **Power plant equipment status monitoring system.**
- **Building energy-saving lighting control the timing schedule.**
- **Instant UAV room environmental control system.**

MACS_ central
integrated monitoring system

數位輸出入模組(DI/O_Module)

類比輸出入模組(AI/O_Module)

通訊整合應用模組(Application)

DDC 網路資料收集控制器
(Internet data collection Controller)

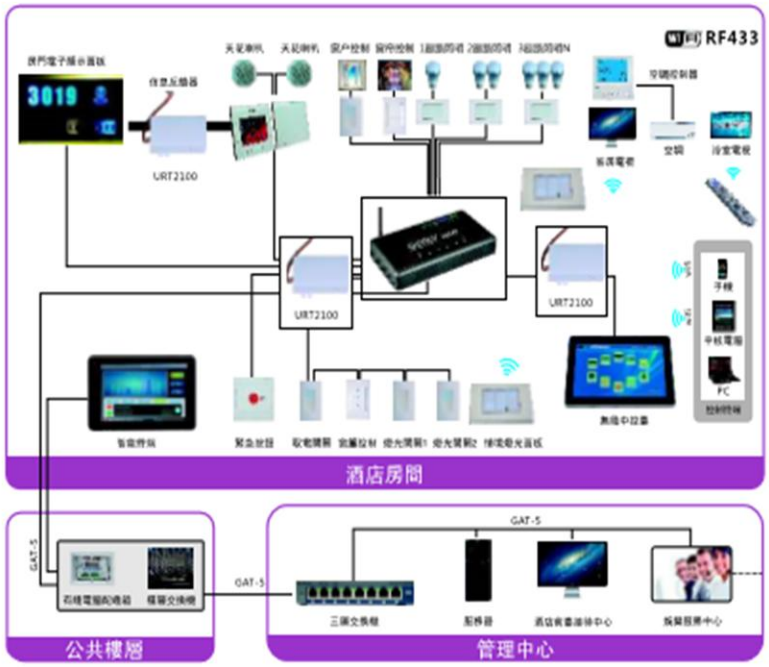
Possible future expansion planned in conjunction(OFFICES)

五星級酒店系統拓撲圖

Diagram of luxury hotel's automation and lighting system

系统配制图

System configuration diagram



HSC-48 智能主机

HSC-48 The smart host

- 是一款基于RF射频、紅外線、GSM網絡及以太網交互協議的智能家居網絡控制主機，外觀時尚新穎(Zigbee雙線時時同步，技術主機預計2014年3月份上市)，軟件操作界面親切且人性化。智能控制主機具備強大的網絡功能和靈活的自動化控制方式，是目前功能最全面，性價比最高的智能家居控制主機，無論何時何地，都可以通過客戶端軟件本地或遠程實現控制。

RLD-900環控主機

RLD-900 Loop control host

产品特色

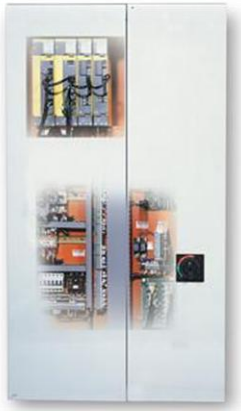
Product Features

- 輸出/輸入各1組DMX512优先讯號选择，可控制512個迴路。
- 透過1組DMX512信號輸入設定通道位址，下一個通道再輸入255阶，利用第512通道及255，可達到控制99個檔案矩陣變化。可透過(URT2100)及(PC09)利用RF433訊號來控制(RLD90)達到99種情境模式，開關燈、及調光、窗簾控制、投影開機。
- 任何全探LED與電腦監聽感情境變化無線射頻 (KY009E)遙控系統，透過(RF)433頻率 之方式而遙控RLD900，并可控制多項電子設備及解碼盒。
- 遙控器資訊碼與(PC09)对頻，以433頻率控制檔案內容來達到情境變化。
- 您發揮巧思，讓SHEENY RLD900帶給您最SMART的無線智慧生活有最完整的系統產品。
  - --- 彈性模組，避免組裝功能增加成本，當省您省把經費花在刀口上。
  - --- 無線架構，安裝或擴充非常方便，適用於大小環境空間。
  - --- 有線架構，RS-232與RF雙向、WiFi 無線多頻通訊，兼具穩定、彈性運用，
  - --- 適用於大型建物、飯店、酒店、婚宴會館...
  - --- 擴充相容，新舊時期、不同價格定位的產品都彼此都相容。
  - --- 功能多样，更高階的運用等著來探索。
  - --- 客廳、餐廳、办公室、会议室等...操作者可以隨心所欲操控情境。
  - --- 甚至一開門、光線轉暗...讓SHEENY RLD900自動自發地不需勞駕。
  - --- 我們提供－優質無線設計、任意模組運用。
- 我們提供以RF、IP網路與控制透過URT2100傳送資料回饋訊息變化達到即時更新情境狀態可在電腦、iPad、APP手機、雙向訊息傳遞可讓你在螢幕上了解即時更新之內容。

Control Room

(1) System HardWare
- Soft-System *1
- HP PC Server *1
- HP Monitor *1
- Backup Server *1
- iPad View *1

(2) Control HardWare
- Main Switchboard *1
- Area Switchboard *6
- Panasonic MCU *30



System HardWare

HP recommends Windows.

HP Pavilion 23-g010 All-in-One (Energy Star)

Entertainment and productivity. All-in-One.

Free up desk space with this elegant, slim design. Whether for entertainment or everyday computing, the HP Pavilion All-in-One takes your overall experience above and beyond with a powerful processor, rich graphics and Full HD display.[1][2]

All about model 23-g010

Take your overall experience above and beyond with a powerful processor, rich graphics and Full HD display on the HP Pavilion All-in-One.[3][4]

Key specifications

- Windows 8.1[5]
- AMD E2-9010 dual-core Accelerated Processor[6][7]
- 23" diagonal IPS widescreen Full HD[8][9] LED backlit display
- 4GB PC3-12800 DDR3L-1600 SDRAM memory[10] (1 DIMM Expandable to 16GB)
- 500GB 5400RPM SATA hard drive[11]
- AMD Radeon™ HD 8210 Graphics[12] Up to 2048MB Total Available Graphics Memory w/ultra-low-delay Windows 8
- USB wired-style keyboard with volume control, Windows 8 hot keys and optical mouse[13][14]
- Slim Tray-Load Multi-DVD Burner[15]
- 2 x USB 3.0 (Side) (1)
- Wireless LAN 802.11 b/g/n featuring Simple Setup (1 x 1) 2.4 GHz[16]
- 1 year limited hardware warranty and 1 year technical support

Product highlights

- Featuring Windows 8
- Designer Slim design gives you more room for an enhanced computing experience.
- Display is 23-inch diagonal, Full HD display immerses you in games, videos and more. The stand takes up little room, leaving more space for you.[17]
- IPS Panels Get clear views from any angle.
- Windows 8 enhanced keyboard features 6 quick keyboard/mouse combo with hot keys, allows for intuitive navigation of Windows 8.[18][19]
- HP TrueVision Webcam Capture all the details with vibrant clarity, even in low light. Enjoy the nuances of face-to-face conversations.[20]
- HP Connected Photo Sync photos across your PC, smartphone and tablet with HP Connected Photo. Capture, store and order prints on SnapFish, or share them on social networks.[21]
- HP Connected Music: A unique music application providing limitless discovery. HP Connected Music seamlessly integrates your collection with leading music and radio services.[22]
- HP SimplePass Easily secure your online accounts with a single password or PIN, and keep your identity to yourself. HP SimplePass remembers your passwords, so you get to the good stuff faster.
- Entertainment Watch and get your entertainment needs answered, from our webcam app to powerful photo and video editing—even an enhanced video experience.
- DTS Sound+™ delivers immersive surround sound complete with deep bass, clear dialog and maximum volume in multimedia content.
- Easy! Easily, all of your mobile content is in one place[23] Free 25GB online cloud storage from Box[24]
- Norton Free 30-day Trial of Norton LiveSafe™ service included. Norton LiveSafe™ service provides your digital life by protecting your data, identity and all your devices so you can connect with confidence.[25]

Energy efficiency your way

HP is committed to global citizenship and environmental responsibility. Do it for the environment—and your wallet—it's true when you use the HP Pavilion All-in-One that meets strict energy efficiency and helps reduce your carbon footprint.

- ENERGY STAR® Qualified[26]
- EPEAT® Silver registered[27]
- Mercury-free display backlights.
- Lead-Voltage[28]
- Arsenic-free display glass.
- Eligible for free recycling or cash back through HP's Planet Partners Recycling and Consumer Buyback programs (www.hp.com/go/recyclepack).[29]

Here to keep you happy

HP TotalCare provides award-winning 24x7 service and support in the U.S., and normal business hours for Canada and Latin America. To learn more, visit www.hp.com/go/totalcare.
During your limited warranty period, enjoy:

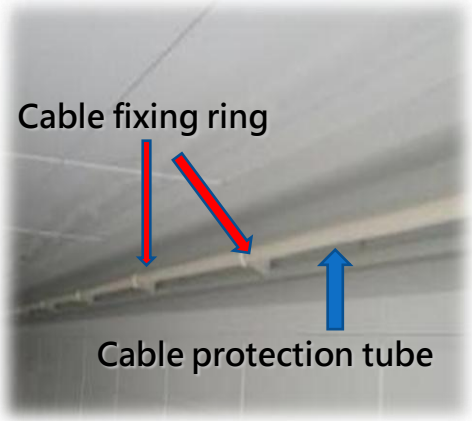
- 24x7 technical assistance via online chat, e-mail, HP Support Forum or HP Total Care[30]
- Parts and labor coverage, including customer-replaceable parts, return of equipment to HP, and enhanced service provider options.
- Toll-free technical and limited software support in English, Français or Español at 1.800.474.6836.

In addition, and at no charge, you get lifetime access to HP's Support Forum in English, Français or Español at www.hp.com/go/supportforum and HP Support Assistant, a free self-help tool that's built right into Windows based PC's.[31] Also often, a variety of enhanced services and options both in and out of warranty to give you peace of mind and extend the coverage on your pc. Visit www.hp.com/go/totalcare for details.

Need more? Say hello to HP Smart Friend—24x7 personalized service, including "Smarts" to help answer anything from virus removal to software setup to printing problems. Get support over the phone or let us log into your PC remotely and solve the problem for you.[32] Single use and subscription plans available. hp.com/go/smartfriend

Control Hardware (Panasonic inside)

Switchboard



NEC Hi-Bay Led lighting

新発売
高天井用LED照明器具

Orchestrating a brighter world NEC

工場、倉庫の高天井用照明器具で
このようなお悩みございませんか？

- 再点灯に時間がかかる水銀灯は、常に点けっぱなし！
- 調光対応器具は、配線工事が面倒で費用が高い！
- 作業していないエリアを消灯したい！
- 電気代を下げつつ、現場環境を良くしたい！

お求めやすい価格になった
高天井用LED照明器具で解消！

- 省電力
- 初期照度補正/連続調光機能
- 省メンテナンス
- 軽量、高施工

■ 経済比較・照度分布図

クラス1400：水銀灯400W代替器具(器具台数24台の場合)

種別	HID高天井器具 水銀灯400W	高天井用LED照明器具 クラス1400 中角タイプ DRGC13H31K/N-ZJX8	HID高天井器具 メタルハライド250W
消費電力	415W/台	115W/台（約70%削減）	260W/台（約52%削減）
年間消費電力	29,880kWh/年	8,280kWh/年	18,720kWh/年
年間電力料金	806,760円/年	223,560円/年（約56万円削減）	505,440円/年（約26万円削減）
照度分布図	平均照度 310lx	平均照度 280lx	平均照度 212lx

【比較条件】 ●寸法：間口32m×奥行20m×天高10m ●反射率：天井30%、壁30%、床10%
●保守率：水銀ランプ 0.69、メタルハライドランプ 0.47、LED 0.76 ●計算面高：床上0mの水平面照度
●年間点灯時間：3,000時間 ●新電力料金目安単価：27円/kWh(税込)

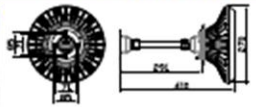
■電源別置型　高天井用LED照明器具の特長

LIFELED'S

従来の水銀灯400Wと同等の高出力な明るさを実現	従来高天井用照明の水銀灯400W相当の明るさで消費電力115W。約72%の省エネを実現しました。HID器具からのリニューアルで大幅な省エネとランニングコスト削減を実現します。
色再現性の高い演色性（Ra85）で自然な光	高効率と高演色性を両立した照明器具。従来のメタルハライドランプ並みの高演色性Ra85で、リニューアルによる違和感なく交換いただけます。
軽量な器具本体で高い施工性	従来HID器具と同等の器具重量2.3kgを実現。丸型露出ボックスに取付可能で、スムーズに器具のリニューアルが出来ます。ご使用の環境により、取付構造は吊下パイプと吊下チェーンをお選びいただけます。
温度補償機能により、高温環境下でも安心	照明器具の周囲温度が40℃を超えると温度補償機能により電源装置の出力が減少し器具温度の異常上昇を抑制するため、夏場などの一時的な温度上昇時にも安心してご使用いただけます。

■器具ラインアップ

クラス1400（水銀灯400W相当）　吊下パイプタイプ　電源別置 / 初期照度補正機能 / 丸型露出ボックス取付け可 / Ra85

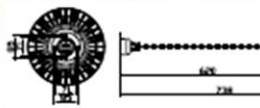


本体	放熱塗装
前面カバー	ポリカーボネート
フランジ	アルミニウム
吊下パイプ	アルミニウム
落下防止ワイヤー	ステンレス
定格電圧	AC100～242V
調光方式	PWM方式（調光範囲：約20～100%まで）
使用温度範囲	－20～＋40℃（一時的に最大50℃まで）
質量(本体のみ)	2.3kg

受注生産品

点灯方式	品名	配光角（°）	光源色 相関色温度（K）	定格光束（lm） 定格消費電力（W）	固有エネルギー消費効率（lm/W）	平均消費電力（W）	演色性 Ra	LEDモジュール寿命（光束維持率60%）（時間）	希望小売価格（円）（税別）	商品コード
連続調光 20～100% 初期照度補正	DRGE13H31K/N-ZJX8	広角 120	昼白色 5000K	13,800 115	120.0	100	85	50,000	72,000	0643-3675
	DRGC13H31K/N-ZJX8	中角 75	昼白色 5000K	13,800 115	120.0	100	85	50,000	72,000	0643-3674

クラス1400（水銀灯400W相当）　吊下チェーンタイプ　電源別置 / 初期照度補正機能 / 丸型露出ボックス取付け可 / Ra85

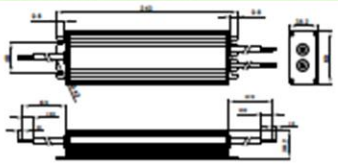


本体	放熱塗装
前面カバー	ポリカーボネート
フランジ	アルミニウム
吊下チェーン	ステンレス
落下防止ワイヤー	ステンレス
定格電圧	AC100～242V
調光方式	PWM方式（調光範囲：約20～100%まで）
使用温度範囲	－20～＋40℃（一時的に最大50℃まで）
質量(本体のみ)	2.3kg

受注生産品

点灯方式	品名	配光角（°）	光源色 相関色温度（K）	定格光束（lm） 定格消費電力（W）	固有エネルギー消費効率（lm/W）	平均消費電力（W）	演色性 Ra	LEDモジュール寿命（光束維持率60%）（時間）	希望小売価格（円）（税別）	商品コード
連続調光 20～100% 初期照度補正	DRGE13H31K/N-ZJX8	広角 120	昼白色 5000K	13,800 115	120.0	100	85	50,000	72,000	0643-3683
	DRGC13H31K/N-ZJX8	中角 75	昼白色 5000K	13,800 115	120.0	100	85	50,000	72,000	0643-3682

専用別置電源（標準添付）　※DRGE13H31K/N-ZJX8、DRGC13H31K/N-ZJX8、DRCE13H31K/N-ZJX8、DRCC13H31K/N-ZJX8専用



定格電圧	AC100～242V
連続調光	PWM方式：約20～100%
本体	アルミニウム
使用温度範囲	－20～＋40℃（一時的に最大50℃） ※温度補償機能付
質量	1.2kg

【注意】
電源から器具までの配線最長は最長50mまで対応可能です。
使用する配線は断面φ1.6mm以上、より線0.75mm²以上をご使用ください。

※温度補償機能について
照明器具の周囲温度が40℃を超えると温度補償機能により電源装置の出力が減少し器具温度の異常上昇を抑制します

お問い合わせは、下記へ
NECライティング株式会社
照明ソリューション事業部 商品部
TEL: 03 (6746) 1620

●本製品は開発中のものであり、仕様は予告なく変更する場合があります。

NECライティング株式会社　〒105-0014 東京都港区芝一丁目13番17号(住友不動産芝ビル3号館)　2015年11月

Outdoor Led lighting

U5

U3

No.	Item	Specification
1	Designs	U1.U2.U5 : Aluminum shell/U3 two color UV resistant paint
2	Power (W)	U1: 40~80/U2: 100~120/U3: 80~150/U5: 40~200
3	LED luminous flux (Lm)	4000/6000/8000/10000/12000/15000/20000
4	Color temperature	2800~5700K
5	Weight (Kg) (Including Power)	U1: 6.7/U2: 8.5/U3: 7.5/U5:4.9~6.5
6	Dimensions (mm)	U1: L251*W245*H139/U2: L310*W245*H150/U3: L470*W210*H121/U5: L240~400*W180*H85
7	Waterproof Grade	Light : IP66 (IP68 optional) · Power : IP65 (IP67 optional)
8	Optical lens	15°, 31°, 56°, 95°, 132°, 180° 5mm optical glass
9	Warranty(Year)	3
10	Applications	Community, the golf course, gates, billboards, factories, commercial lighting, landscape lighting
11	Place of origin	MADE IN TAIWAN

Wisdom factory

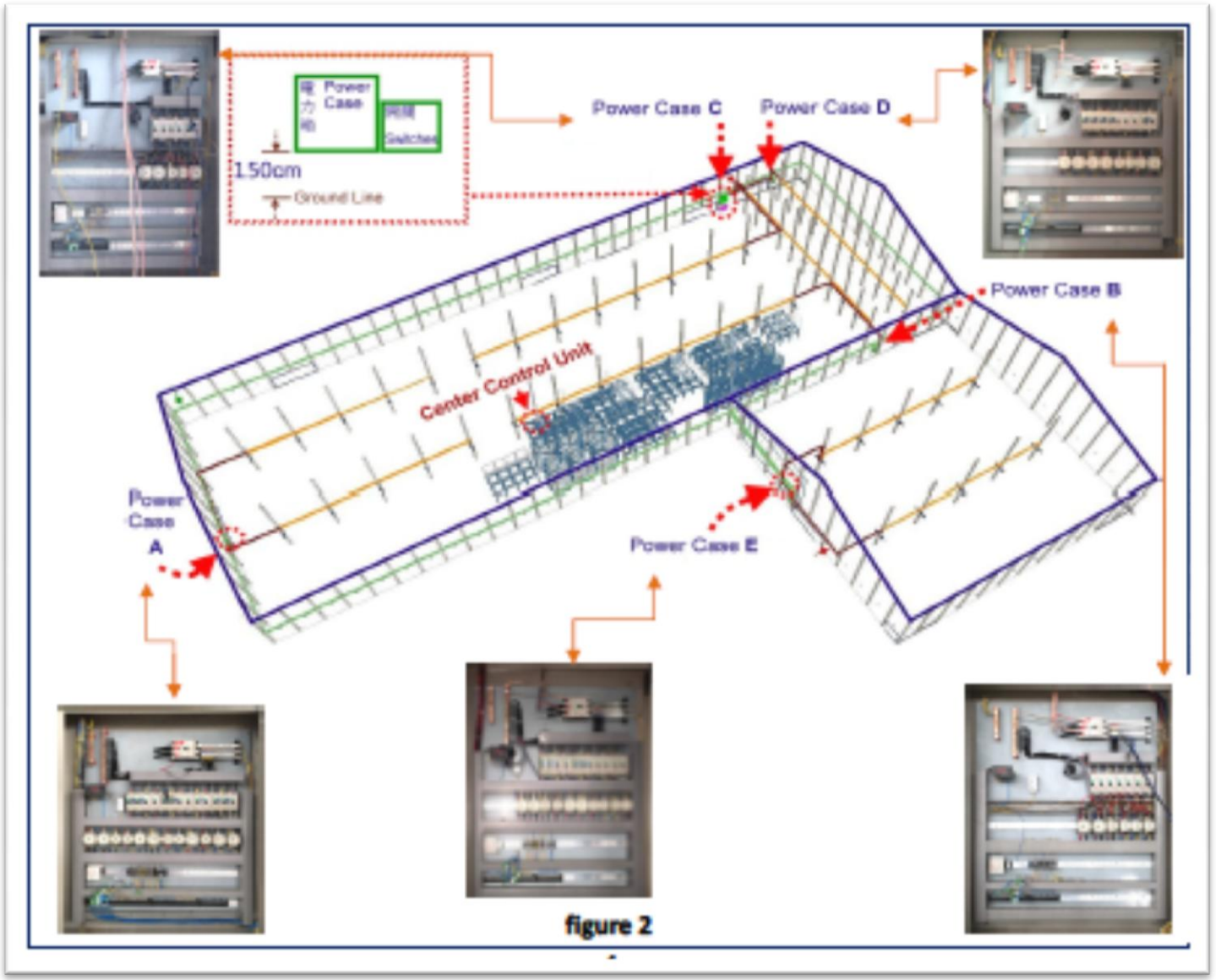
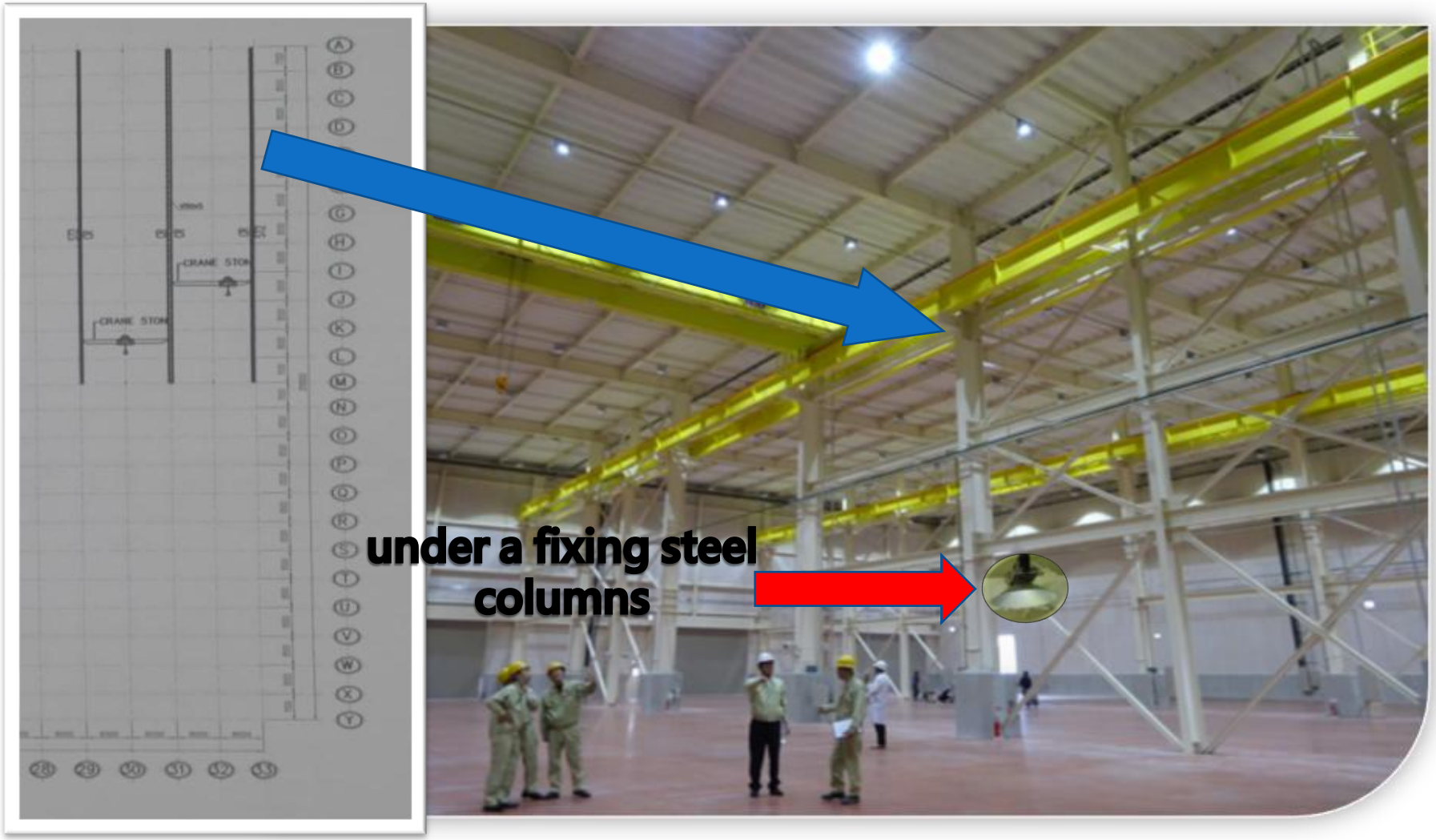


figure 2

Schematic (Lamps location)

Schematic A-M,29-33 (Lamps location)

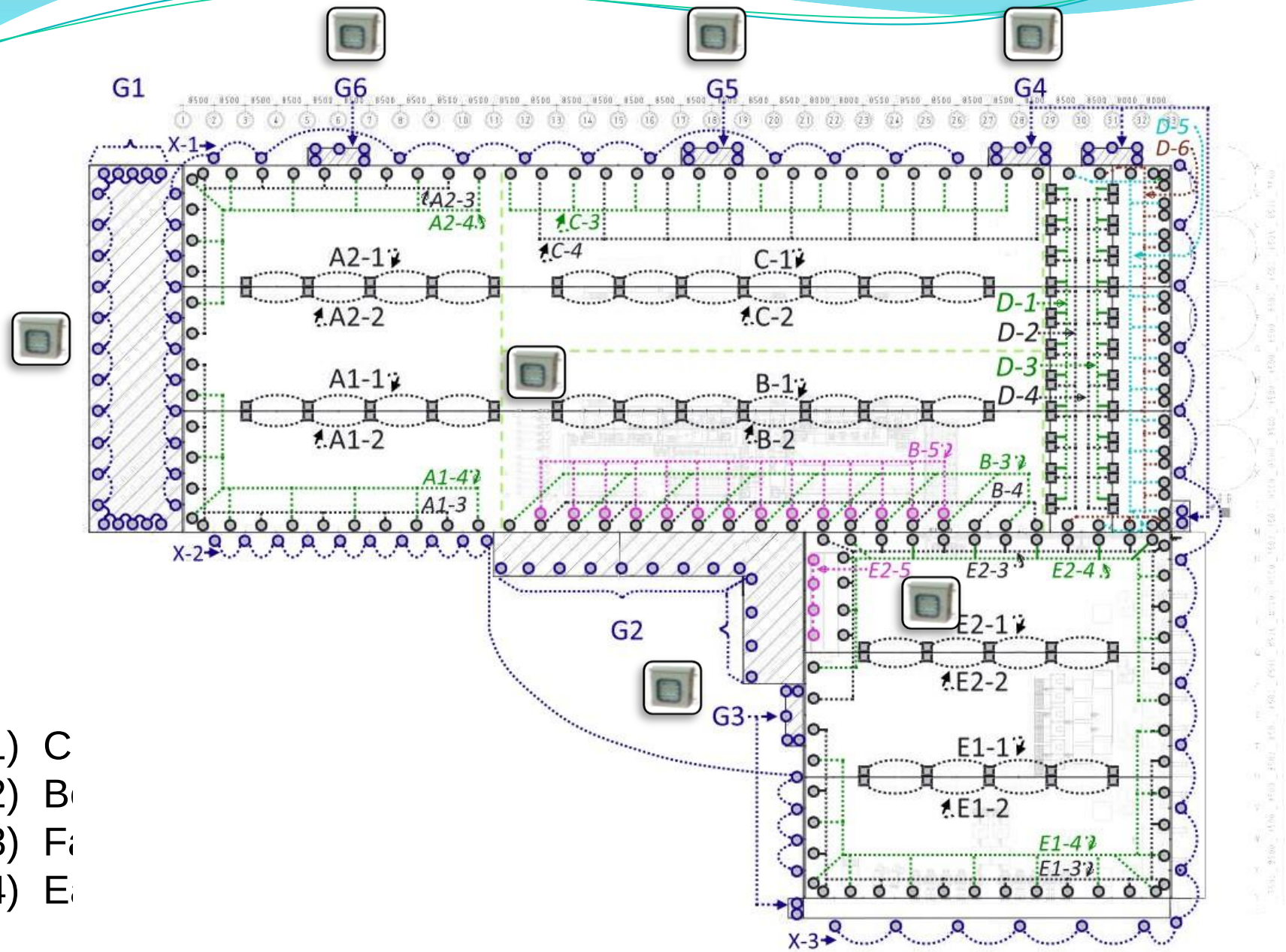


Schematic (Lamps location)

(1) roof - area lighting Height 15 meters below.

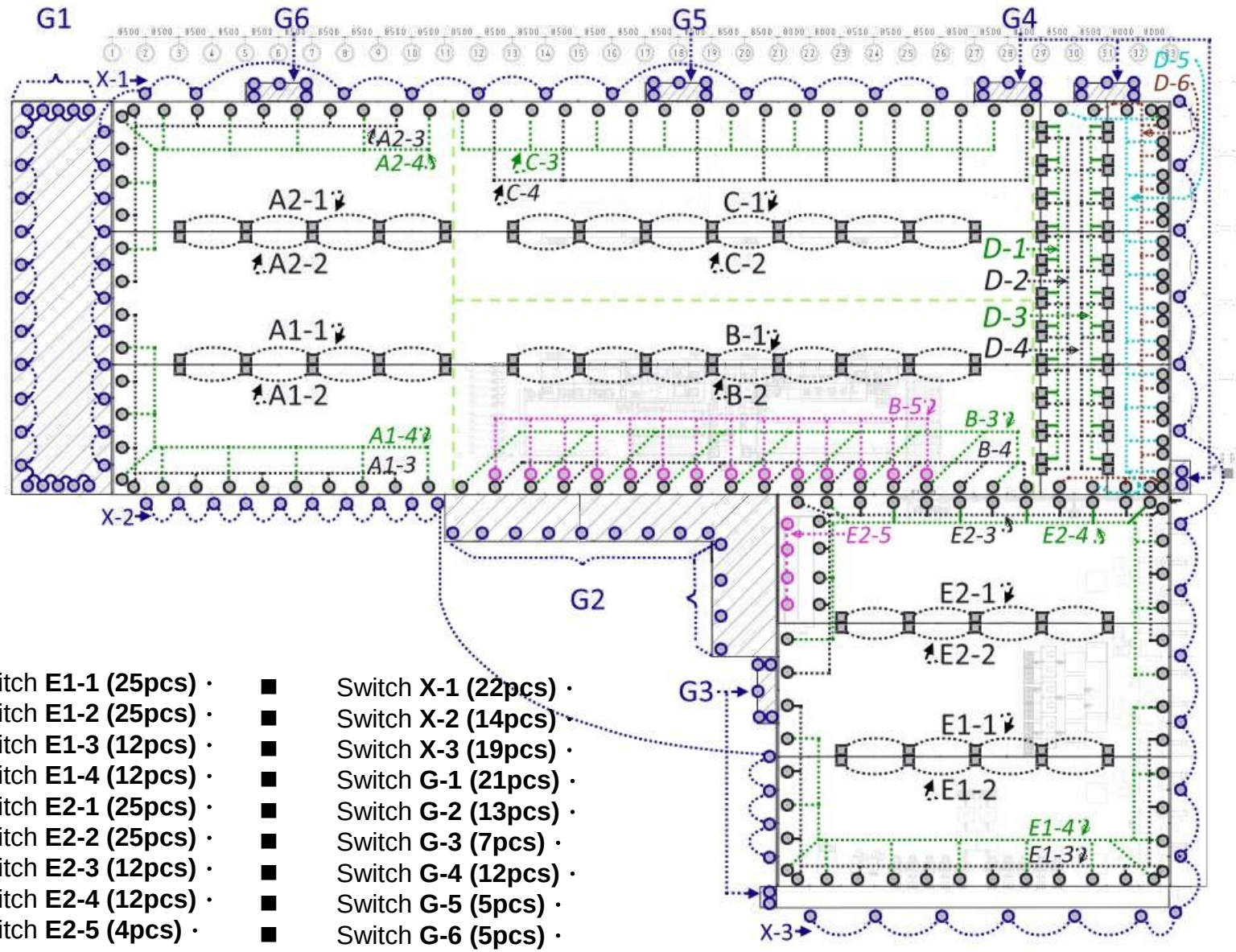
(2) on the roof - outdoor plaza lighting.

Schematic (Lighting configuration)



(1) C
(2) B
(3) F
(4) E

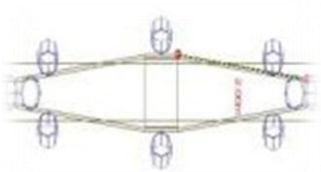
Lamps Switch configuration instructions



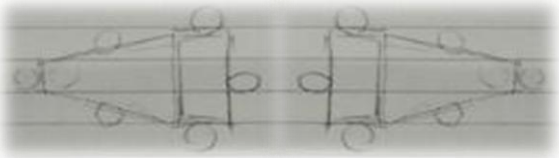
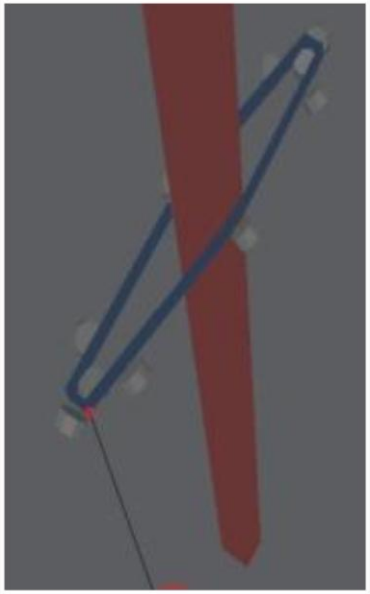
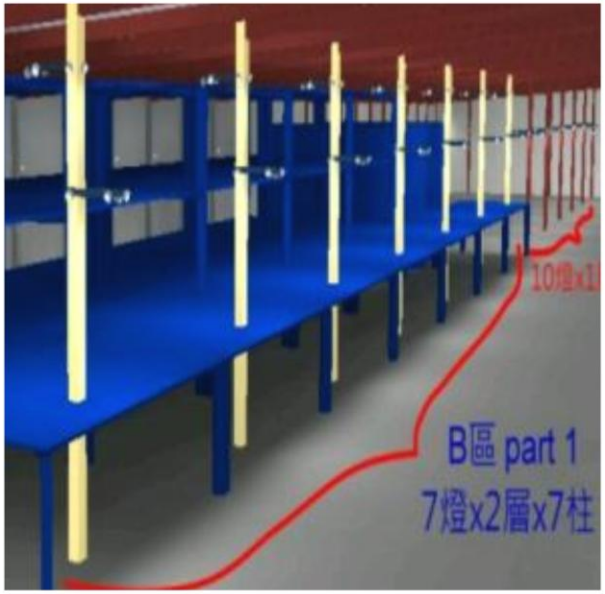
- Switch **E1-1 (25pcs)** ·
- Switch **E1-2 (25pcs)** ·
- Switch **E1-3 (12pcs)** ·
- Switch **E1-4 (12pcs)** ·
- Switch **E2-1 (25pcs)** ·
- Switch **E2-2 (25pcs)** ·
- Switch **E2-3 (12pcs)** ·
- Switch **E2-4 (12pcs)** ·
- Switch **E2-5 (4pcs)** ·

- Switch **X-1 (22pcs)** ·
- Switch **X-2 (14pcs)** ·
- Switch **X-3 (19pcs)** ·
- Switch **G-1 (21pcs)** ·
- Switch **G-2 (13pcs)** ·
- Switch **G-3 (7pcs)** ·
- Switch **G-4 (12pcs)** ·
- Switch **G-5 (5pcs)** ·
- Switch **G-6 (5pcs)** ·

- 1 PCS Lamps
- 10 PCS Lamps



- 7 PCS Lamps * 2



- 4 PCS Lamps