



PROFILE RANGDONG LIGHT SOURCE

AND VACUUM FLASK JSC.





CONTENT

Overview

	Company	3
	Mission / Vision / Value	4
	Award	5
	Milestone	6
	Capacity	
	International & Domestic Markets	7
	Science & Technology Abilities	11
	Products Design Abilities	16
	Production Capacity	20
	Quality Management System Abilities	23
	E-Commerce International Trade	26
1	Typical products	
	DEVELOPED MAKETS	
	North American market	29
	South Korean market	30
	Australian & European markets	31
	ECO SYSTEM 4.0	
	Smart Home	32
	Smart City: Smart street light system	33
	Smart Farm	35



OVERVIEW

- Full Company Name:
 - RANG DONG LIGHT SOURCE AND VACUUM FLASK JOINT STOCK COMPANY
- Business Company Name: RALACO
- Established: 1961
- Stock Symbol: RAL on HOSE
- Company type: Public
- Business activities:
 - + Manufacturing general lighting products, HCL (Human Centric Lighting)
 - + Professional ODM/ OEM service for lighting products
 - + Manufacturing and Trading product ecosystems 4.0 of Smart Home, Smart City, Smart Farm.
 - + Producing and trading High-tech agriculture lighting, fishery lighting and renewable energy lighting products
 - + Producing and trading Vacuum flasks and household appliances.



Head office and Factory No.1

Located 87-89 Ha Dinh Str., Thanh Xuan Dist., Hanoi, Vietnam Area: 57,000 m2



Factory No.2 Located Que Vo Industrial Zone, Bac Ninh Province Area: 82,000 m2



Research and Development Centers

- + LED Lighting R&D Center (LRDC)
- + Digital R&D Center (DRDC)
- + Business Model R&D Center (BMRDC)



LED Lighting for cusumers: 100 million units/ year LED Lighting for professionals: 05 million units/ year

Vacuum Flasks & Glass Refills: 32 million units/ year

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International Management System





Member of ILAC / APLAC MRA

ACCREDITED LABORATORY VILAS 126 (Conformed with requirements of ISO/IEC 17025:2017)







• Pioneering enterprise providing a synchronous solution system based on core technologies of Lighting and IoT, contributing to the creation of smart home, smart city, hi-tech agriculture and precision agriculture, promoting life in harmony with nature - smart - happiness, accompaning the nation to build a prosperous Vietnam.



- By 2025, envisaging to become a leading high-tech enterprise in the Vietnamese lighting market, pioneering in the field of providing Ecosystem 4.0 to realize the aspiration of "Make in Vietnam".
- By 2030, becoming a billion-dollar enterprise, bringing Rang Dong brand to the regional level.
- Keeping the development path of the business based on Science, Technology, Innovation and Kindness.
- Building a company having a creative, cultural, civilized, professional and happy working environment.



CORE VALUE

• Solidarity, Proactiveness, Creativity, Rapidity and Professionalism.



ACTION MOTTOS

• Serving customers, creating knowledge for resonating value



HUMAN VALUE

- Dedication Endeavor Self-consciousness Self-confidence Self-respect Honesty
- Same orientation Same behavior Shared work Shared benefit
- New Qualities: Tectonic Adaptive Creative Professional





TOP	500	Vietnam's Largest Companies (10 consecutive years)
TOP	500	Vietnam's Fastest Growing Companies (6 consecutive years)
TOP	100	ASEAN Famous Brands 2020
TOP	50	Best Vietnamese Listed Companies
TOP	50	Leading Brands in Vietnam
TOP	50	Typical Creative Enterprises 2021
TOP	50	Leading Brands in Vietnam
TOP	10	Vietnam's Golden Brands
TOP	10	Best Brandname in Vietnam
TOP	10	Gold Classified Products



Highest Energy Efficiency Award 2020



Won smart city award 2020

Won smart city award 2020 for "Green - Smart -Human Centric Lighting Solution for Smart Buildings and Smart Homes"



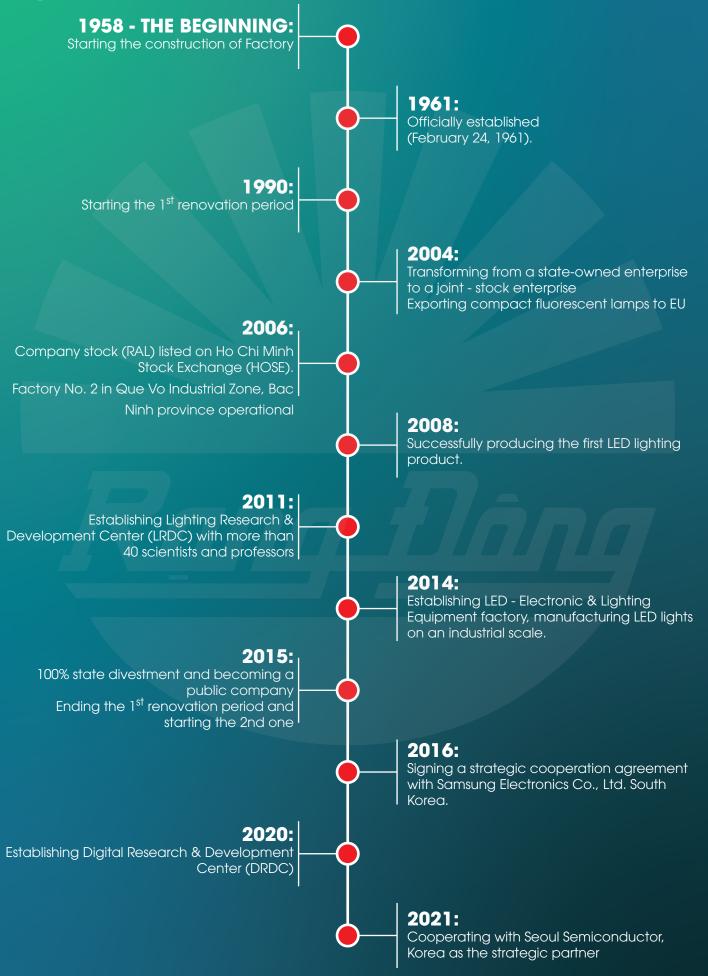
TOP 1 Won smart city award 2020 for "Green - Smart -Human Centric Lighting Solution for Smart Buildings and Smart Homes"



Sao Khue award 2021

Smart Lighting Solutions in Hi-Tech Agriculture (HTAL) and Precision Agriculture (PAL)





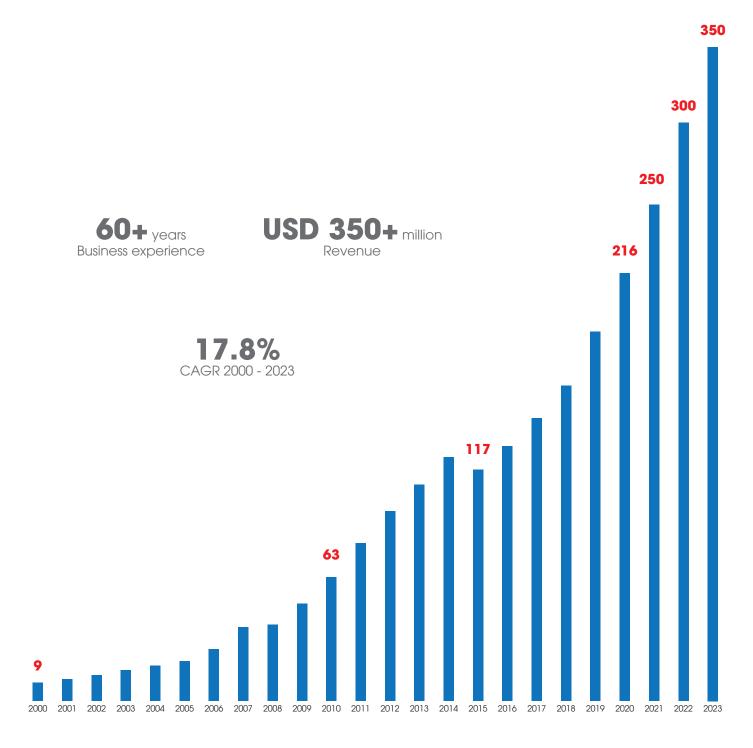




INTERNATIONAL & DOMESTIC MARKETS

| 7









INTERNATIONAL MARKET

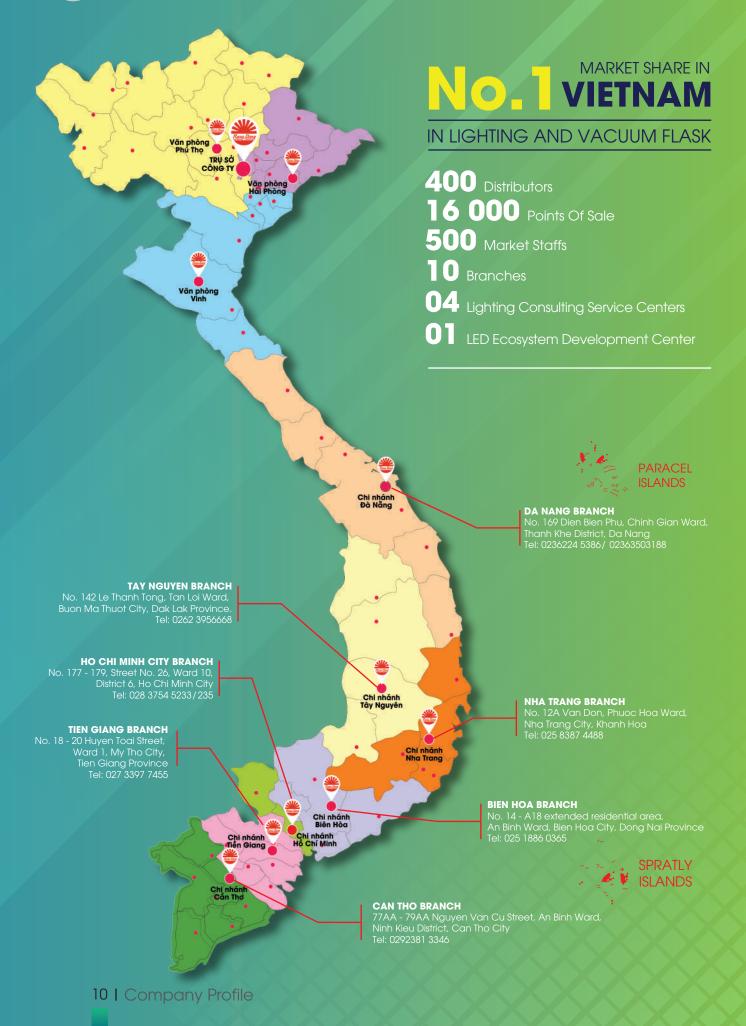
PERIOD OF 2000-2023

INTERNATIONAL CLIENTS (200+)

Products manufactured by Rang Dong are supplied to large corporations in G7/G20 countries.











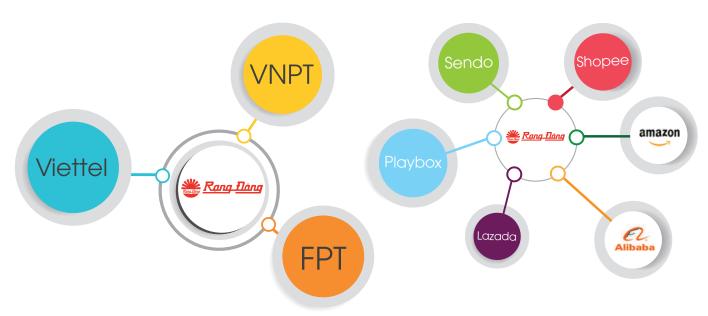
O2 SCIENCE & TECHNOLOGY ABILITIES

| 11



Science & Technology abilities

Rang Dong has cooperated with domestic and foreign scientists in many different fields: Digital Technology, the Internet-of-Things (IoT) Technology, cloud computing, edge computing, radio signal identification, etc. absorbed scientific and technological achievements such as materials physics, Mechatronics, Smart agriculture, renewable technology, Biomedical optics, etc. to create high-tech products, bring new values to customers, meet the increasing demands of customers.



In 2011, the Lighting R&D Center was established to research on lighting and apply interdisciplinary and transdisciplinary science and technology: physical & material sciences, Mechatronics, optics, microorganism technology, chemistry, etc. to produce high-tech products with high added value, protect human health, and bring a variety of experiences to customers.





Rang Dong Lighting R&D center has been issued certificate of registration for science and technology activities by Hanoi department of science and technology



In 2020, Rang Dong established Business Model R&D Center (BMRDC), Creativity Center and Digital R&D Center (DRDC). The above centers have signed with many large technology corporations of Vietnam such as VNPT, FPT, Viettel etc. to conduct business on digital platforms.



EXCLUSIVE INVENTION PATENTS, USEFUL SOLUTIONS

Rang Dong currently owns





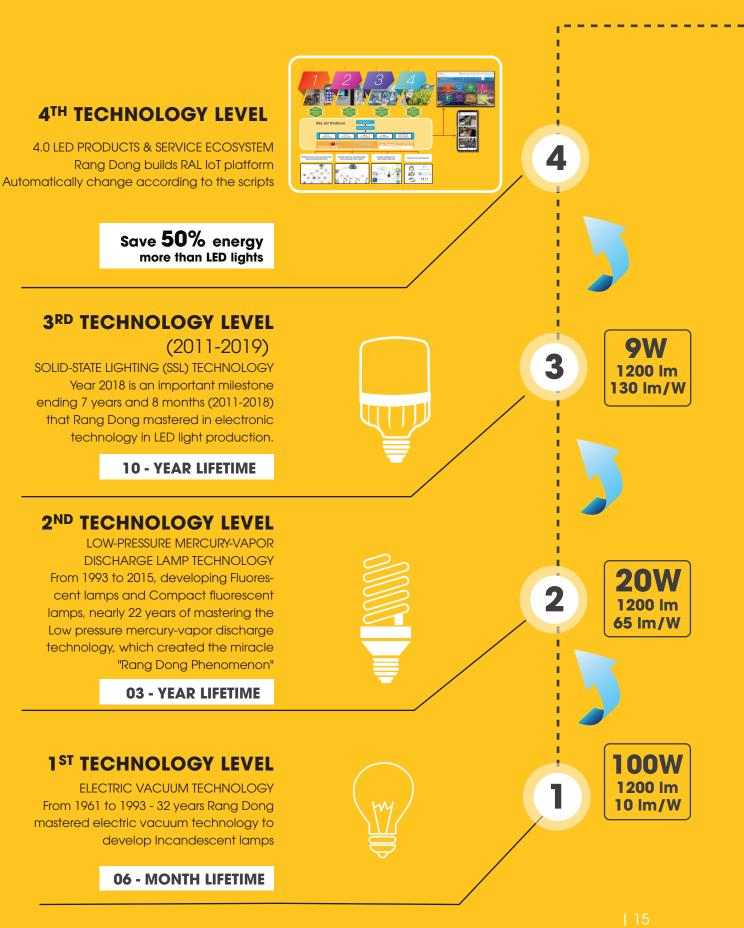
CERTIFICATE OF ACCREDITED LABORATORY



14 | Company Profile



MASTERING 4 LEVELS OF LIGHTING TECHNOLOGY

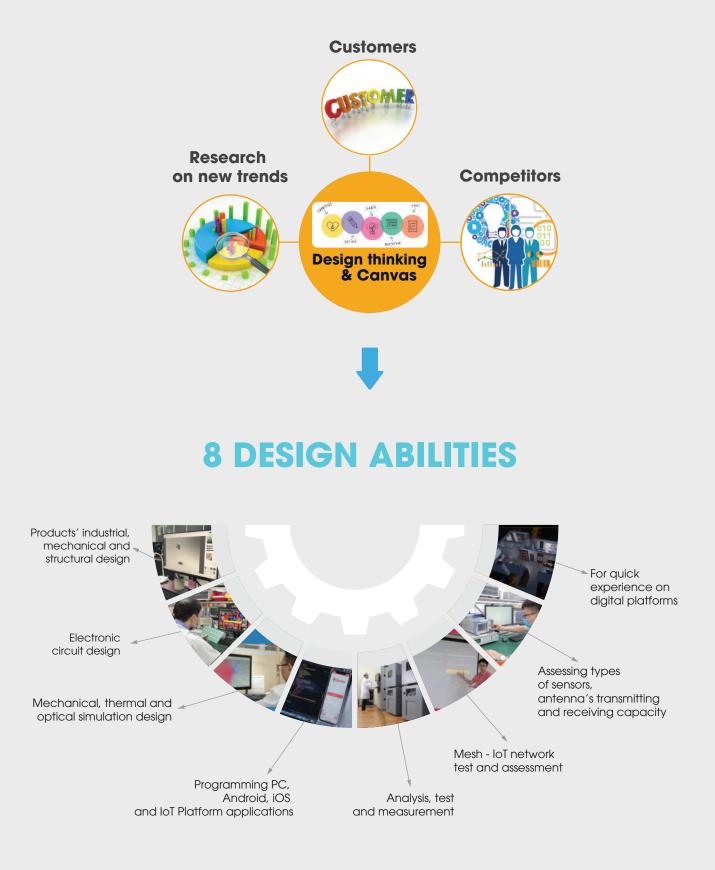




PRODUCT DESIGN ABILITIES

16 | Company Profile







3D INDUSTRIAL STYLE DESIGN



ELECTRONIC CIRCUIT DESIGN/SIMULATION/OPTIMIZATION



MECHANICAL, THERMAL AND OPTICAL SIMULATION/OPTIMIZATION



FIRMWARE/SOFTWARE DEVELOPMENT





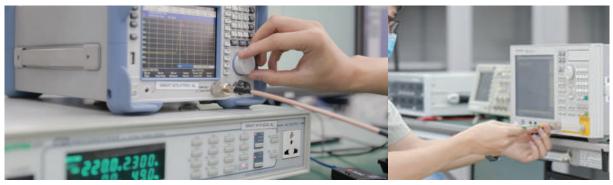
ANALYSIS, TEST AND MEASUREMENT



MESH - IOT NETWORKING



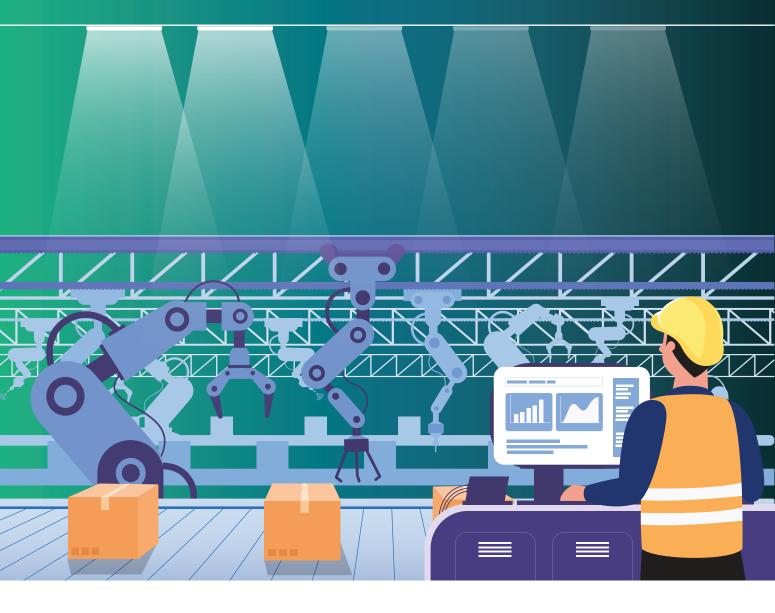
RF NETWORK DESIGN



CUSTOMER EXPERIENCE ON DIGITAL PLATFORM







PRODUCTION CAPACITY

20 I Company Profile



PRODUCTION CAPACITY



LED LIGHTING FOR CONSUMERS



LED LIGHTING FOR PROFESSIONALS





ELECTRONIC ASSEMBLY



SUPPORTING TECHNOLOGY



AUTOMATIC ASSEMBLY LINES







QUALITY MANAGEMENT SYSTEM ABILITIES

| 23



QUALITY MANAGEMENT SYSTEM

- Rang Dong always applies the latest versions of quality management systems (ISO): 9001:2015, 14001:2015, 50001:2005.
- Building a system of processes, regulations and guidelines based on ISO and industry standards.
- Rang Dong implements control from Supplier Quality Control (SQC) Input Quality Control (IQC) to Process Quality Control (PQC) and Output Quality Control (OQC); Moving towards applying Total Quality Management (TQM).
- The equipment and machinery used to evaluate and control the process are periodically inspected annually.
- Quality managers are regularly trained and evaluated to improve their qualifications.



24 I Company Profile



DIGITAL OPERATION CENTER OF LED-ELECTRONICS & LIGHTING EQUIPMENT FACTORY







SCADA system (Transfering realtime data to the warning system)





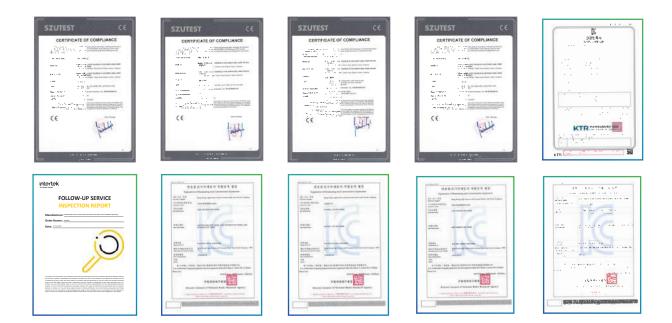
Smart report

Power Bl



Digital Operating Centre

Measuring equipments of accredited lab







E-COMMERCE & INTERNATIONAL TRADE

26 I Company Profile





International E-commerce Model



TYPICAL PRODUCTS

DEVELOPED MARKETS



ECOSYSTEM 4.0



SMART HOME Elevating Life's Values



SM // RT CITY

Smart Technology Community Service



SMART FARM

Science and Technology for Life





DEVELOPED MARKETS NORTH AMERICAN MARKET

BACK-LIT PANEL LIGHT



BATTEN LIGHT



LINEAR HIGH BAY



Lumin e de p fond DEL

CEILING LIGHT



BATTEN LIGHT



DOWNLIGHT







SOUTH KOREAN MARKET

BACK-LIT PANEL 25/30/40/50W



CEILING LIGHT 40/50W



LINEAR LIGHT 40/50W



HOME LIGHTING 40/50W



30 I Company Profile





CROSS LIGHT 50W



PARKING LIGHT 40/50W



FPL 14/21W





AUSTRALIAN & EUROPEAN MARKETS

DOWNLIGHT 7/9W



PARKING LIGHT 40/50W



PANEL 9W - TRICOLOUR



BATTEN LIGHT 60/20W, 1200/40W, 1500/50W



PENDANT LIGHT



CEILING LIGHT 40/50W





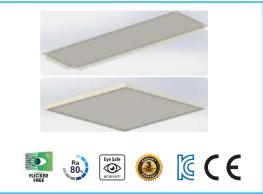
ECO SYSTEM 4.0

SMART HOME

REMOTE CONTROL CEILING LIGHT (EU/KR)



REMOTE CONTROL BACK-LIT PANEL LIGHT (EU/KR)



REMOTE CONTROL CEILING LIGHT (US)

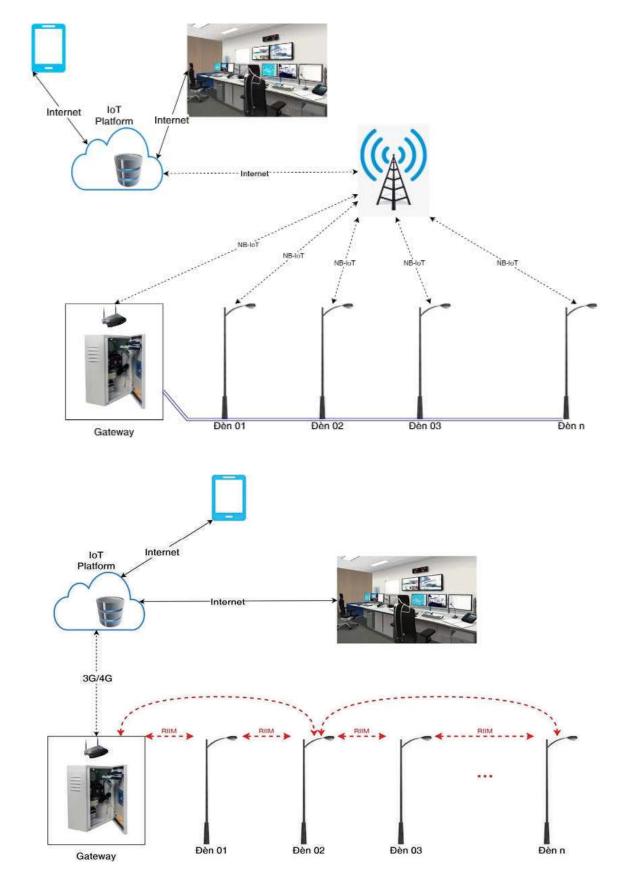


SMART WIFI PLUG (US)









SMART CITY: Smart street light system



LED Street Lights



- Power Levels: 75W-150W
- Ensure performance and safety technical specifications according to domestic and international standards.
- High quality of light, suitable light color, optical beam angle suitable for each type of road.

DEVICE



Power supply for each route, light cluster.

Scheduled light on/off and other functions from the control center.

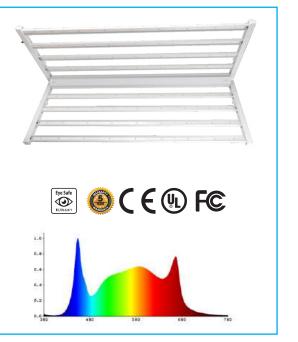
The control cabinet operates on the basis of the infrastructure that is power supplied from the low-voltage grid

All switchboard operating schedules are programmed and pre-set or customized to suit reality from the control center.



SMART FARM

LED HORTICULTURE GROW LIGHT



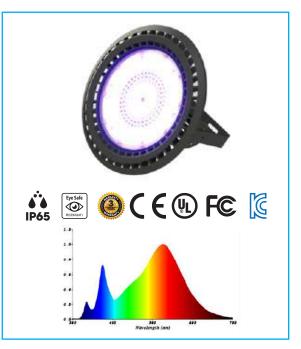
LED GROW LIGHT TUBE T5/T8

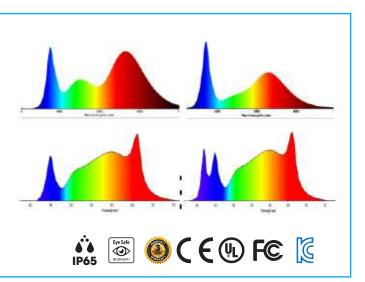


LED LIGHT FOR DRAGON FRUIT GROWING



LED UFO/WBU





LED LIGHT FOR CHRYSANTHEMUM GROWING



| 35



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