



UCD
SINCE
1998

V-1510

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Europe



KAIXEN
UCD Light System



ULTRA CONSTANT DISCHARGE LAMP

Product Specifications

www.ecoucdusa.com



KAIXEN

The world's best
lighting system
Hi-efficiency
Long life-time
Excellent Colour Ra



High Efficiency Certified / NEP Certified



This products for safety and performance can change without notice.

KAIXEN - Kaiser+Xenon(Xe54)=Kaiser of Xenon Lamp

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Declaration of Conformity

In accordance with EC Directive 2006/95/EC relating to Low Voltage Equipment.

The undersigned declares that the under-mentioned items, in view of its design and type of construction, meet the requirements of the above EC Directive.

If the items is modified without the agreement of the undersigned, the declaration becomes invalid.

Description of Equipment: Nano Halide Lamp

Model Name: EQL50, EQL70

Relevant EC Directive: Low Voltage Equipment Directive 2006/95/EC

Applied Standards: EN 60598-1:2009 + A1:2010
EN 60598-2-1:2009 + A1:2010

Manufacturers Registered Name: KAI XEN CO., LTD

Manufacturers Registered Address: 4F, 380-1, Nongdong, 210A, Seongbuk-gu, Seoul, Korea

Date: Sep. 23, 2013

Signature
President of KAI XEN CO., LTD

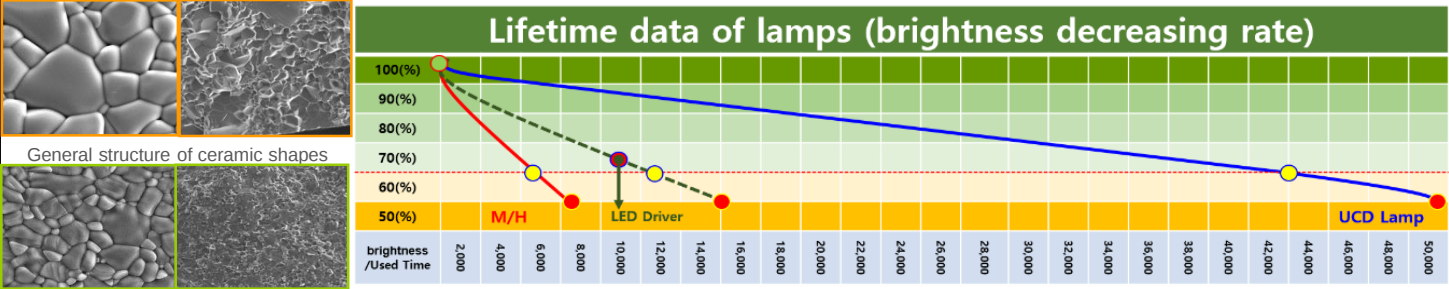




E27-50/70W E40-100/150W E40-250/400W




1.UCD Lamp (EQL/ECL) – 120Lm/Watt – 4,500K



The World's Best Lifetime & Luminous Flux

UCD Lamp performance & specifications ※ The lifetime, efficiency & performance of the below goods can be increased or decreased by installation conditions.

Model	Watt'	Lamp Type	Kelvin	Lumen	Ra	Ave. Life	Lamp Holder	Order Code
EQL50	50	Dual Lamp	4,000K	6,000	75	50,000	E26/27 Socket	EQL50
EQL70	70	Dual Lamp	4,000K	8,400	76	50,000	E26/27 Socket	EQL70
ECL50	50	Dual Lamp	4,500K	6,000	82	50,000	E26/27 Socket	ECL50
ECL70	70	Dual Lamp	4,500K	8,400	85	50,000	E26/27 Socket	ECL70
ECL100	100	Dual Lamp	4,500K	12,000	80	46,000	E39/40 Socket	ECL100
ECL150	150	Dual Lamp	4,500K	18,000	62	46,000	E39/40 Socket	ECL150
ECL150	150	Dual Lamp	4,500K	18,000	90	44,000	E39/40 Socket	ECL150
ECL250	250	Dual Lamp	4,500K	30,000	94	37,000	E39/40 Socket	ECL250
ECL400	400	Single Lamp	4,500k	48,000	94	25,000	E39/40 Socket	ECL400



1. Applications
- Ultra Power saving Light Source
 - 8wavelengths spectrum with hi-CRI
 - Industrial and household lighting
 - Defense & special operations lighting
 - Plant cultivation & Fish luring
2. Specification
- Efficiency : 110 lm/W (5kV/85V)
 - Color Rendering :94Ra(8-Spectrum)
 - Working Temperature : -35°C~65°C
 - Lamp Power:50/70/100/150/250W
 - E26-50/70W, E39/40-100/150/250W
3. Features
- Hi-efficiency, 8wavelengths Lamp
 - Arc-tube of Nano-Ceramic Structure
 - Instant Turn-ON and Hot Re-strike
 - Dual Arc-Tube System-Long Lifetime
 - UV cutting and Lowest heating
- Casing Dimension: 70W-38x156 / 100W,150W-46x207 Weight:80g



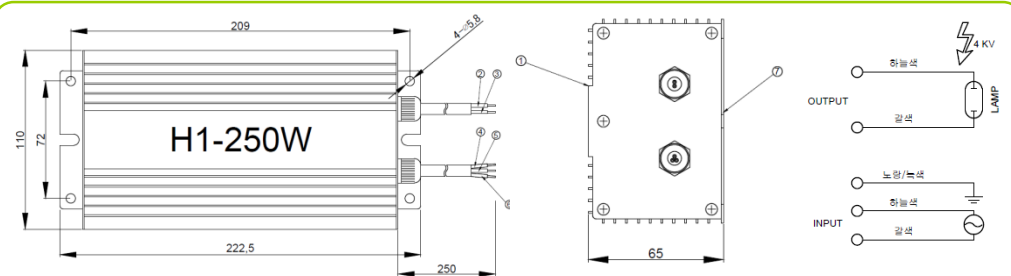
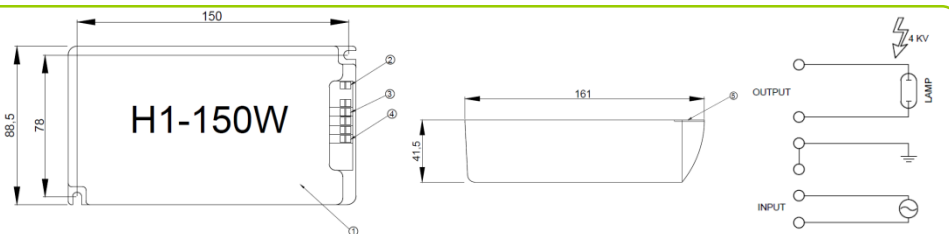
CE Certificate

H1-50/70/100/150W CE Certi'

H1-250/400W CE Certifi'



3. Ballast (H1-50/70/100/150/205/400W)



1. Applications

- Dedicated application for UCD lamp
- Industrial and household applications
- Outdoor and indoor applications
- Defense & special operations lighting
- Plant cultivation and Fish luring lights

2. Specification

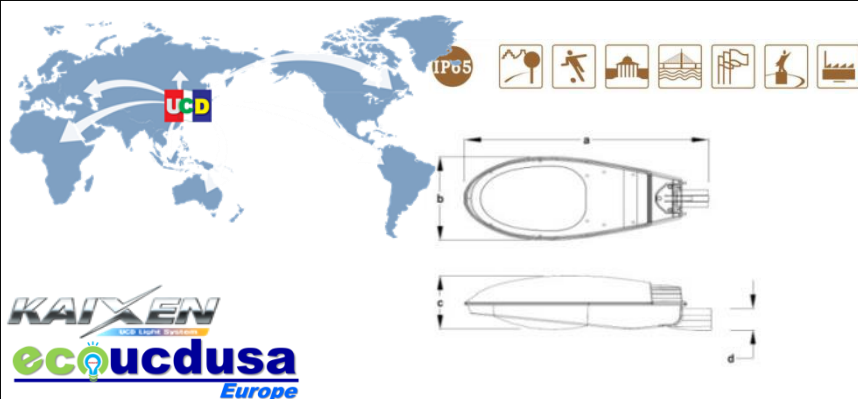
- AC input: 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power: 50/70/100/150/250W
- Working Temperature: -35°C~65°C
- H1-50/70/100/150/250W(5kV)

3. Features

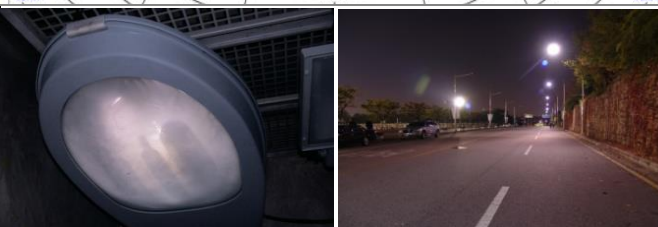
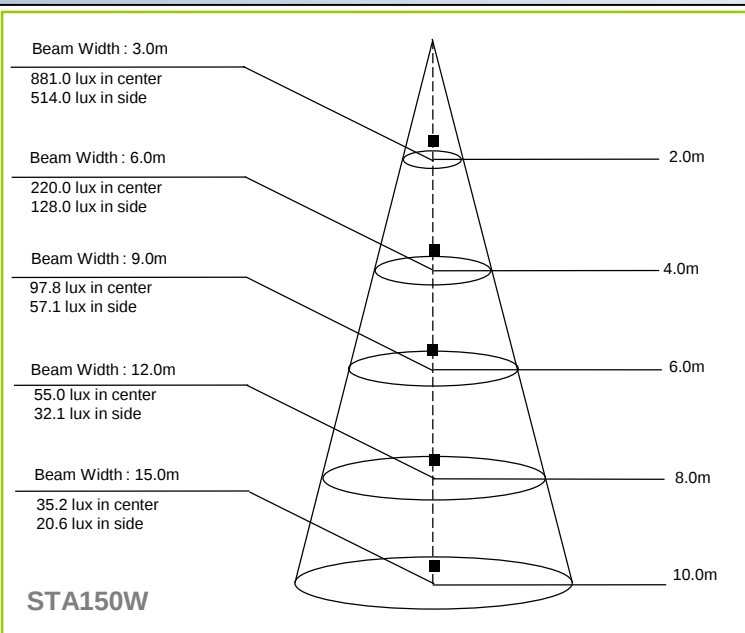
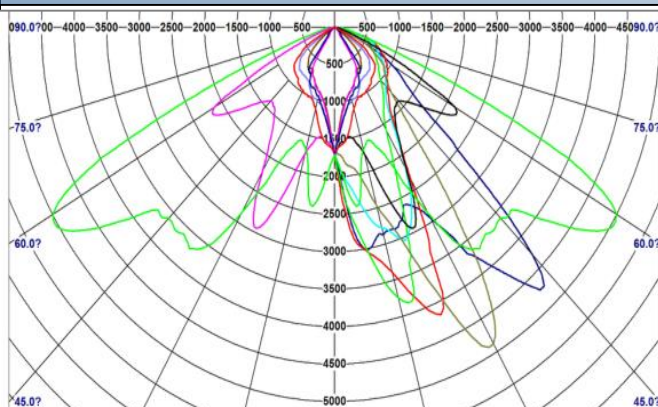
- Long Lifetime /Intelligent Elect' Ballast
- World's First Dual Lamp operation
- Overload and overheat protection
- Ballast/Lamp Ignition Distant:
50/70W-6.5m, 100/150/250W-10m
- Compact design (built-in a fixture)

Casing Dimension : 125x92x39(mm)Weight:710g
: 161x89x42(mm)Weight:450g

ModelH	Watt'	Rated AC	OP. Volt.	Amp	Start/Amp	OP. Temp	B/T Effi'	Order Code
H1-50	50	220V(50~60Hz)	AC 180V~260V	0.26A	0.25A	-35~65 °C	89%	H1-50
H1-70	70	220V(50~60Hz)	AC 180V~260V	0.33A	0.25A	-35~65 °C	91%	H1-70
H1-100	100	220V(50~60Hz)	AC 180V~260V	0.55A	0.30A	-35~65 °C	91%	H1-100
H1-150	150	220V(50~60Hz)	AC 180V~260V	0.74A	0.35A	-35~65 °C	92%	H1-150
H1-250	250	220V(50~60Hz)	AC 180V~260V	1.20A	0.35A	-35~65 °C	93%	H1-250
H1-400	400	220V(50-60hz)	AC 180~260V	1.20A	0.35A	-35~65 °C	93%	H1 - 400



4. Street Lighting (STA)



Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
STA 100	100	E40 BASE	4,500K	12,000	200W	250W	STA 100ECL
STA 150	150	E40 BASE	4,500K	18,000	250W	400W	STA 150ECL
STA 150	150	E40 BASE	4,500K	18,000	250W	400W	STA 150ECL
STA 250	250	E40 BASE	4,500K	30,000	400W	1,000W	STA 250ECL



1. Applications

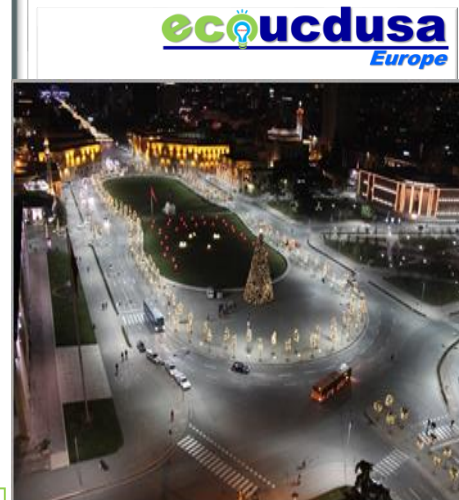
- Expressway lighting (12m height)
- Street lighting (10m/8m height)
- Street lighting in an industrial area
- Parking lot lighting

2. Specification

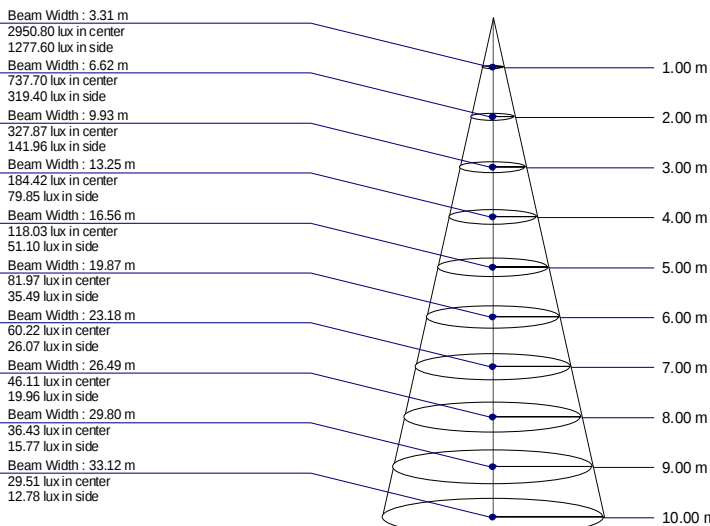
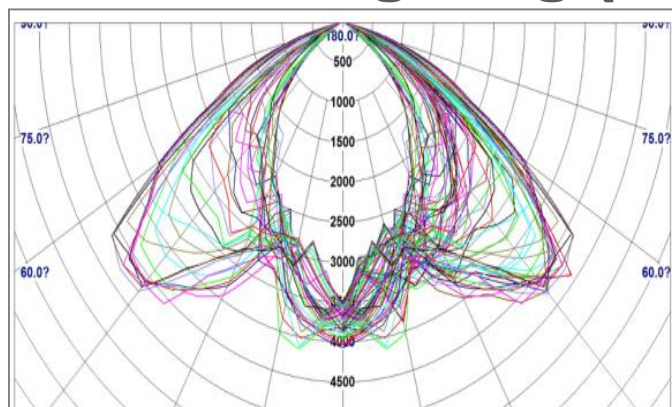
- AC input: 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power: 100/150/250W
- Working Temperature : -35°C~65°C
- Mounting spigot : $\varnothing 64$

3. Features

- IP Rating : IP65
- Aluminum die casting fixture
- High intensity powder coating
- Tempered glass cover
- Casing Dimension** : 910x360x210(mm)
- Weight: 100/150W-8.7 Kg



4. Street Lighting (STB)



STB150W

Average Beam Angle = 117.7°/E
 Max. Beam Angle = 138.3°/E at ¥Ö1 = 165°/E- ¥Ö2 = 345°/E
 Min. Beam Angle = 101.2°/E at ¥Ö1 = 90°/E- ¥Ö2 = 270°/E



Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
STB 100	100	E40 BASE	4,500K	12,000	200W	250W	STB 100ECL
STB 150	150	E40 BASE	4,500K	18,000	250W	400W	STB 150ECL
STB 150	150	E40 BASE	4,500K	18,000	250W	400W	STB 150ECL
STB 250	250	E40 BASE	4,500K	30,000	400W	400W	STB 250ECL

1. Applications

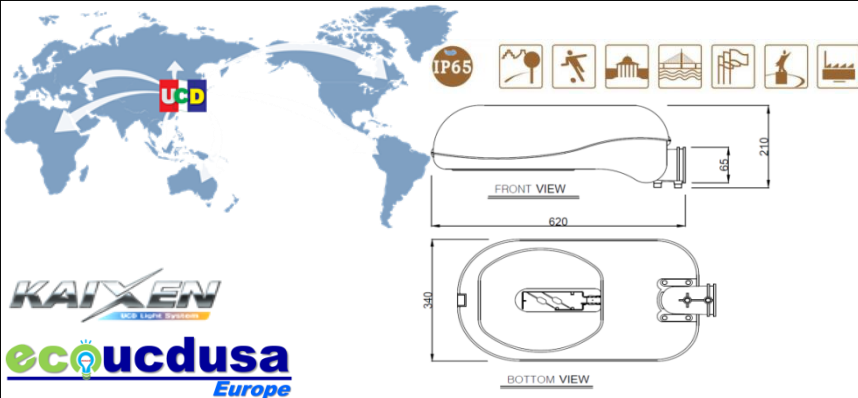
- Expressway lighting (12m height)
- Street lighting (10m/8m height)
- Street lighting in an industrial area
- Parking lot lighting

2. Specification

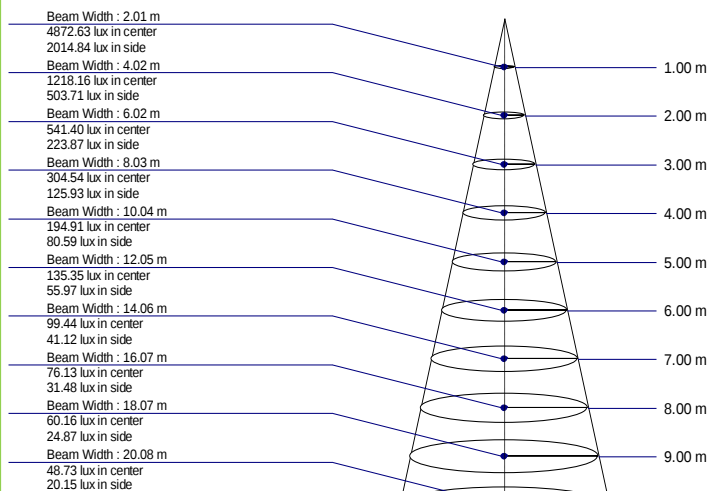
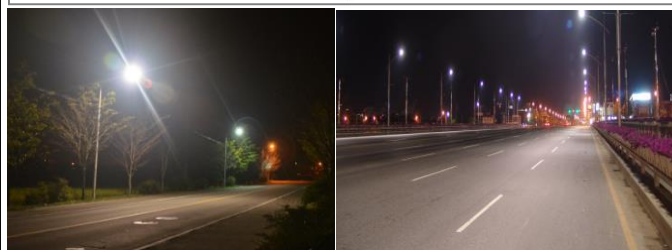
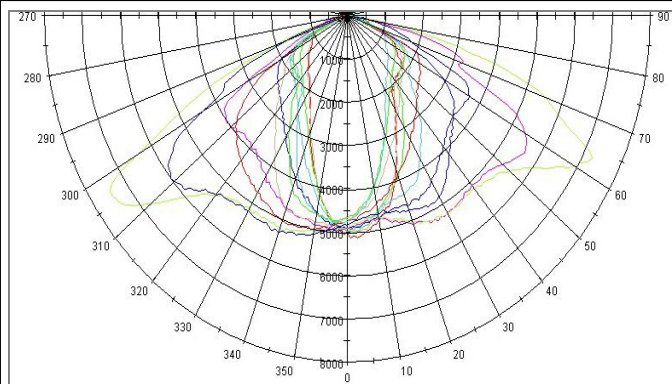
- AC input: 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power : 70/100/150/250W
- Working Temperature : -35°C~65°C
- Mounting spigot : Ø73

3. Features

- IP Rating : IP65
- Aluminum die casting fixture
- High intensity powder coating
- Tempered glass cover
- Casing Dimension : 800x330x215(mm)
- Weight: 70~250W - 8 Kg



6. Street Lighting (STK)



STK150W

Average Beam Angle = 90.2°/E
 Max. Beam Angle = 140.7°/E at $\varphi\text{O}1 = 90^\circ/\text{E} - \varphi\text{O}2 = 270^\circ/\text{E}$
 Min. Beam Angle = 52.4°/E at $\varphi\text{O}1 = 0^\circ/\text{E} - \varphi\text{O}2 = 180^\circ/\text{E}$

Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
STK 100	100	E40 BASE	4,500K	12,000	200W	250W	STK 100ECL
STK 150	150	E40 BASE	4,500K	18,000	250W	400W	STK 150ECL
STK 150	150	E40 BASE	4,500K	18,000	250W	400W	STK 150ECL
STK 250	250	E40 BASE	4,500K	30,000	400W	1,000W	STK 250ECL



1. Applications

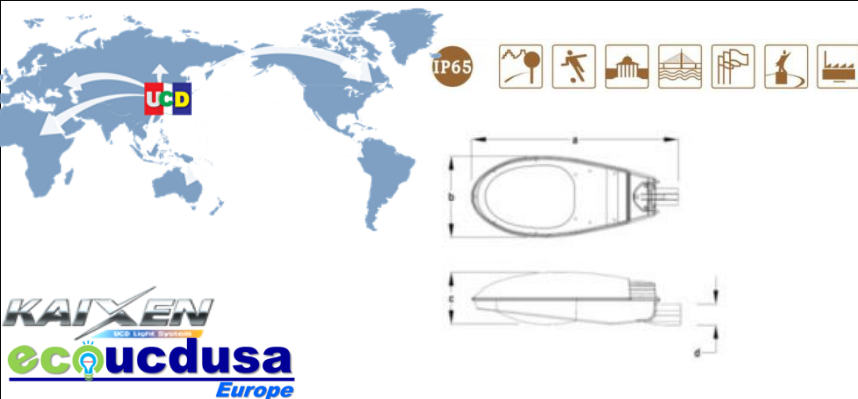
- Expressway lighting (12m height)
- Street lighting (10m/8m height)
- Street lighting in an industrial area
- Parking lot lighting

2. Specification

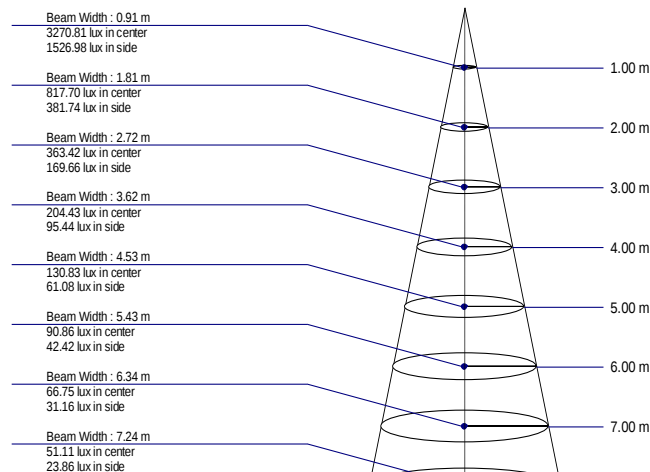
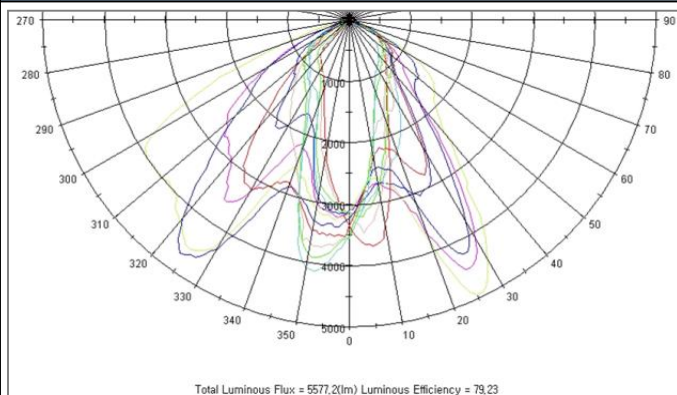
- AC input: 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power : 70/100/150/250W
- Working Temperature : -35°C~65°C
- Mounting spigot : $\varnothing 60$

3. Features

- IP Rating : IP65
- Aluminum die casting fixture
- High intensity powder coating
- Tempered glass cover
- Casing Dimension : 650x350x210(mm)
- Weight: 70~250W – 7.5 Kg



7.Security Lighting (SCA)



SCA-70W

Average Beam Angle = 48.7°/E
 Max. Beam Angle = 103.2°/E at Y01 = 90°/E- Y02 = 270°/E
 Min. Beam Angle = 22.8°/E at Y01 = 0°/E- Y02 = 180°/E



1. Applications

- Security light in metropolis(8m height)
- Security light in metropolis (6m/4m)
- Security lighting in an industrial area
- Security lighting in a parking lot

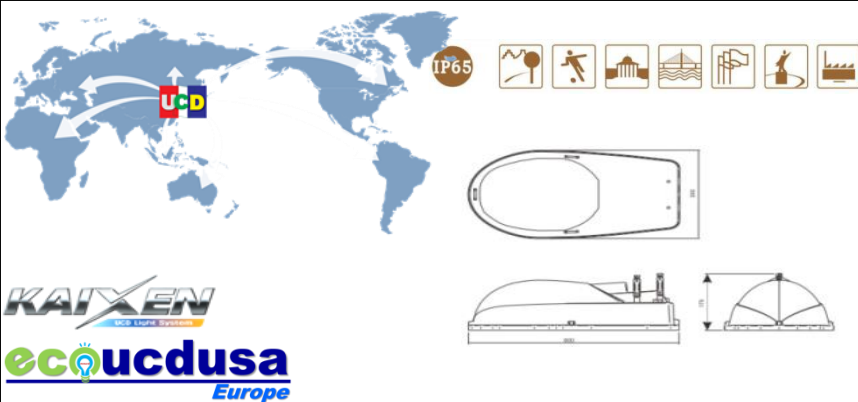
2. Specification

- AC input:220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 91%
- Lamp Power : 50/70W
- Working Temperature : -35°C~65°C
- Mounting spigot : Ø50

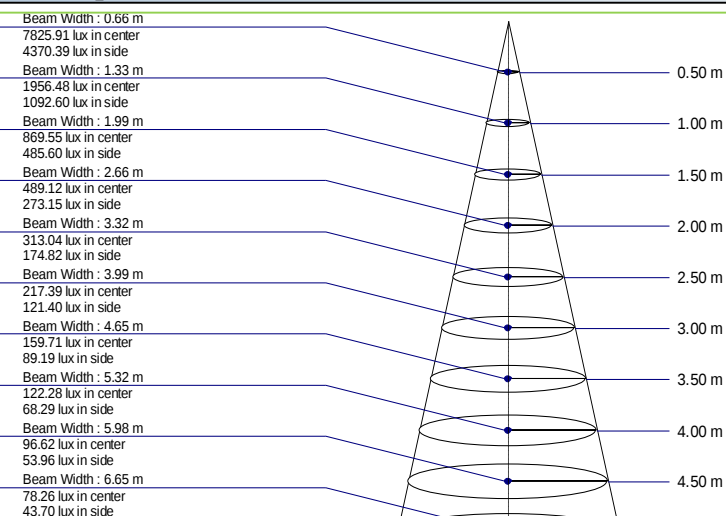
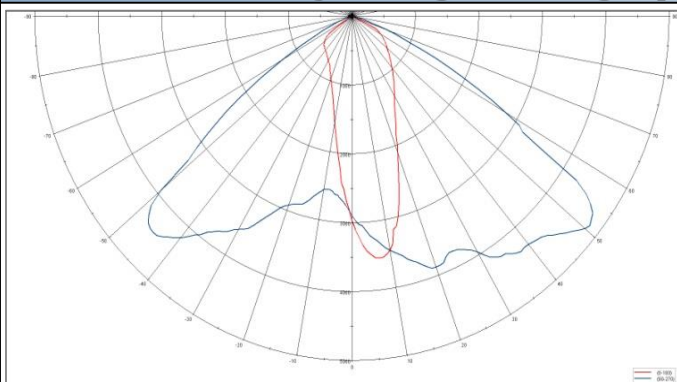
3. Features

- IP Rating : IP65
- Aluminum die casting fixture
- High intensity powder coating
- Tempered glass cover
- Casing Dimension : 660x270x190(mm)
- Weight:70W – 4.5 Kg

Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
SCA 50	50	E26/27 BASE	4,500K	6,000	100	150	SCA 50EQL
SCA 70	70	E26/27 BASE	4,500K	8,400	175	200	SCA 70EQL
SCA 50	50	E26/27 BASE	4,500K	6,000	100	150	SCA 50ECL
SCA 70	70	E26/27 BASE	4,500K	8,400	150	175	SCA 70ECL



8.Security Lighting (SCC)



SCC70W

Average Beam Angle = 67.2 $^{\circ}$ $\pm$ ϵ
Max. Beam Angle = 136.6 $^{\circ}$ $\pm$ ϵ at φ 01 = 0 $^{\circ}$ $\pm$ ϵ ~ φ 02 = 180 $^{\circ}$ $\pm$ ϵ
Min. Beam Angle = 33.7 $^{\circ}$ $\pm$ ϵ at φ 01 = 120 $^{\circ}$ $\pm$ ϵ ~ φ 02 = 300 $^{\circ}$ $\pm$ ϵ

Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
SCC 50	50	UCD S BASE	4,500K	6,000	100	150	SCB 50EQL
SCC 70	70	E26/27 BASE	4,500K	8,400	175	200	SCB 70EQL
SCC 50	50	E26/27 BASE	4,500K	6,000	100	150	SCC 50ECL
SCC 70	70	E26/27 BASE	4,500K	8,400	150	175	SCC 70ECL
SCC 100	100	E39/40 BASE	4,500K	12,000	200	250	SCC 100ECL



1. Applications

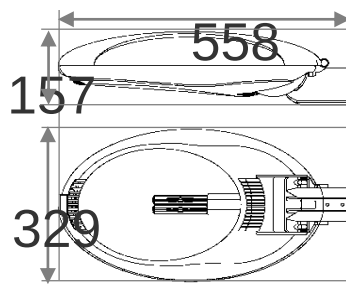
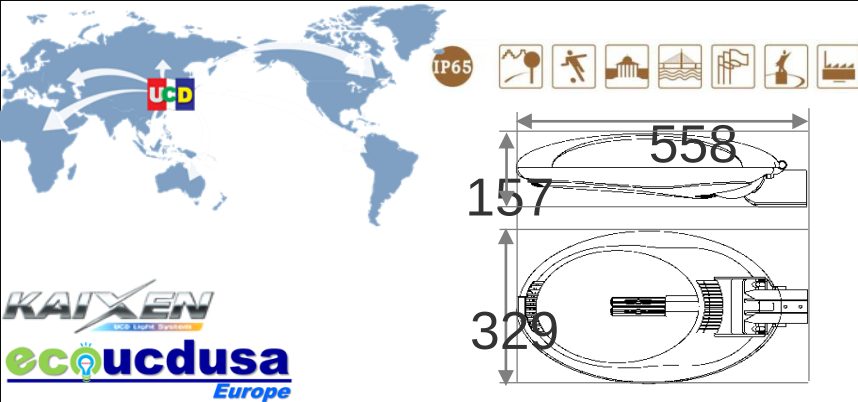
- Security light in metropolis(8m height)
- Security light in metropolis (6m/4m)
- Security lighting in an industrial area
- Security lighting in a parking lot

2. Specification

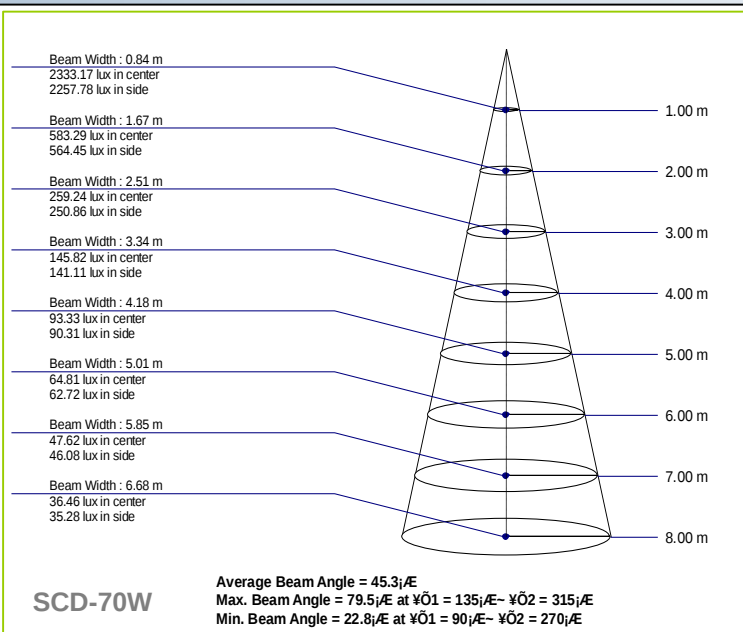
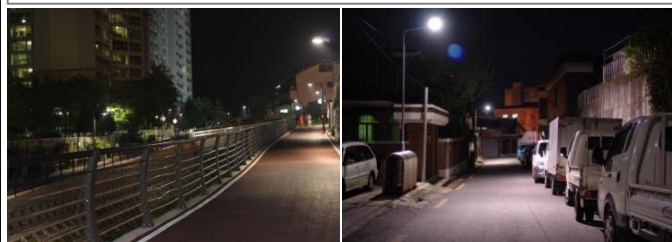
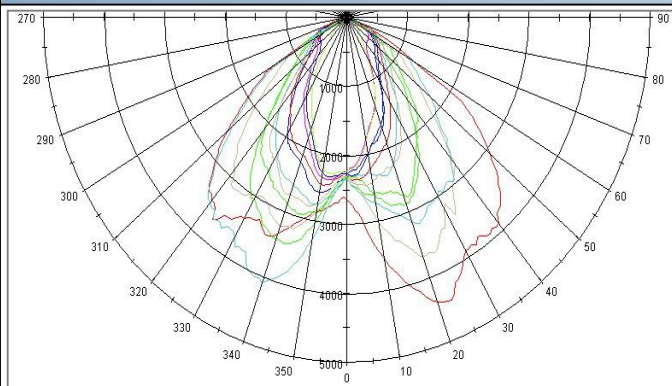
- AC input:220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 91%
- Lamp Power : 50/70/100W
- Working Temperature : -35 $^{\circ}$ C~65 $^{\circ}$ C
- Mounting spigot : $\varnothing$ 60

3. Features

- IP Rating : IP65
- Aluminum die casting fixture
- High intensity powder coating
- Tempered glass cover
- Casing Dimension : 595x295x180(mm)
- Weight:50/70/100W – 5.7 Kg



9.Security Lighting (SCD)



1. Applications

- Security light in metropolis(8m height)
- Security light in metropolis (6m/4m)
- Security lighting in an industrial area
- Security lighting in a parking lot

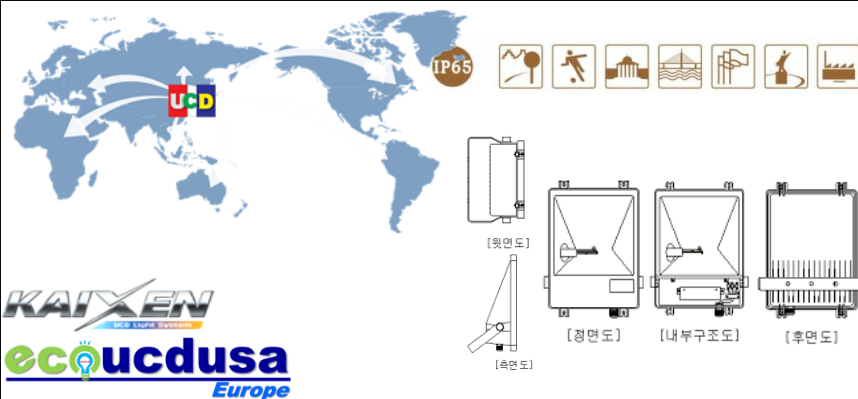
2. Specification

- AC input:220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 91%
- Lamp Power : 50/70/100W
- Working Temperature : -35°C~65°C
- Mounting spigot : $\varnothing 60$

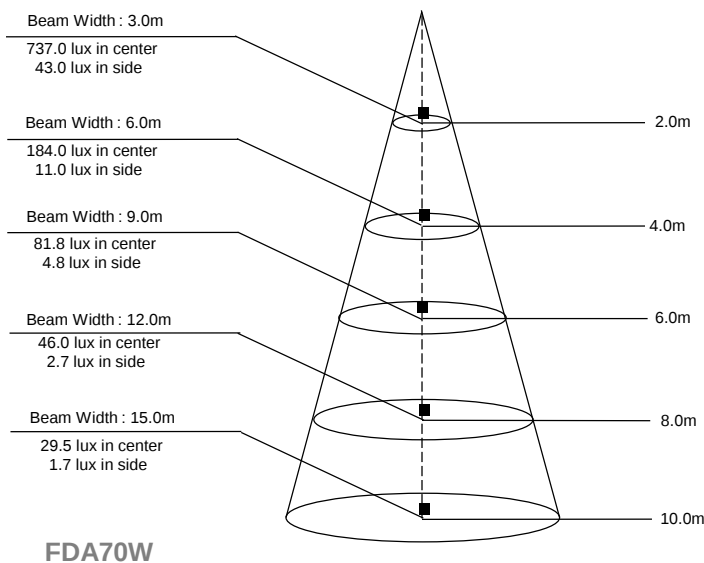
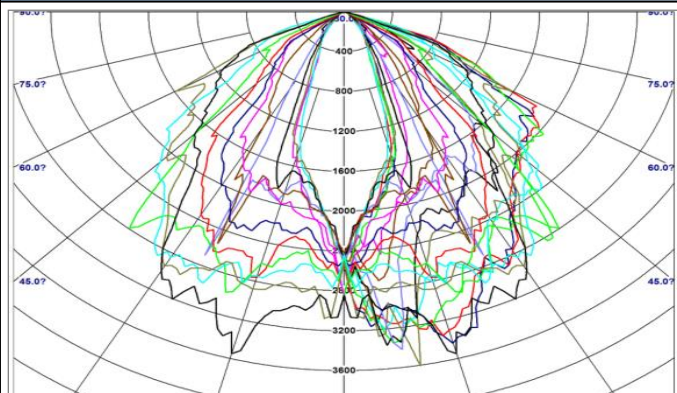
3. Features

- IP Rating : IP65
- Aluminum die casting fixture
- High intensity powder coating
- Tempered glass cover
- Casing Dimension** : 558x329x157(mm)
- Weight:50/70/100W – 5.5 Kg

Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
SCD 50	50	UCD S BASE	4,500K	6,000	100	150	SCD 50EQL
SCD 70	70	E26/27 BASE	4,500K	8,400	175	200	SCD 70EQL
SCD 50	50	E26/27 BASE	4,500K	6,000	100	150	SCD 50ECL
SCD 70	70	E26/27 BASE	4,500K	8,400	150	175	SCD 70ECL
SCD100	100	E39/40 BASE	4,500K	12,000	200	250	SCD 100ECL



10.Flood Lighting (FDA)



Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
FDA 50	50	E26/27 BASE	4,500K	6,000	100	150	FDA 50EQL
FDA 70	70	E26/27 BASE	4,500K	8,400	175	200	FDA 70EQL
FDA 50	50	E26/27 BASE	4,500K	6,000	100	150	FDA 50ECL
FDA 70	70	E26/27 BASE	4,500K	8,400	150	175	FDA 70ECL

1. Applications

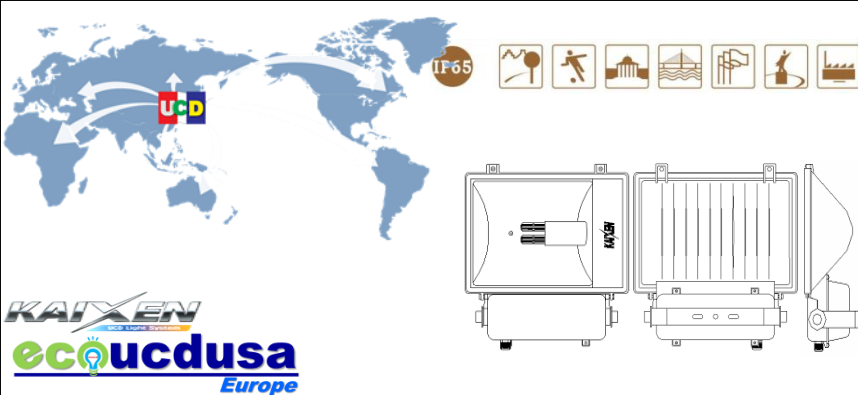
- Security and guard lighting
- Parking lot & industrial complex
- Floodlighting for buildings
- Floodlighting for bridges
- Artificial lighting for plant cultivation

2. Specification

- AC input: 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 91%
- Lamp Power : 50/70W
- Working Temperature : -35°C~65°C
- Angle adjustable handle mounting

3. Features

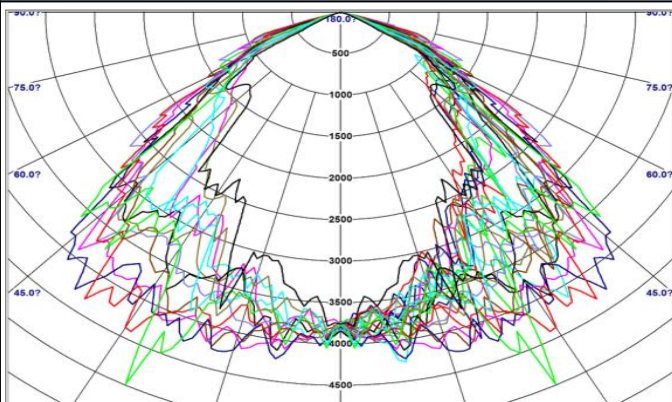
- IP Rating : IP65
- Aluminum die casting fixture
- High intensity powder coating
- Tempered glass cover
- Casing Dimension : 125x295x125(mm)
- Weight: 50/70W – 4.5 Kg



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11.Flood Lighting (FDC)



Beam Width : 2.08 m 3776.05 lux in center 1578.46 lux in side	1.00 m
Beam Width : 4.16 m 944.01 lux in center 394.62 lux in side	2.00 m
Beam Width : 6.24 m 419.56 lux in center 175.38 lux in side	3.00 m
Beam Width : 8.32 m 236.00 lux in center 98.65 lux in side	4.00 m
Beam Width : 10.41 m 151.04 lux in center 63.14 lux in side	5.00 m
Beam Width : 12.49 m 104.89 lux in center 43.85 lux in side	6.00 m
Beam Width : 14.57 m 77.06 lux in center 32.21 lux in side	7.00 m
Beam Width : 16.65 m 59.00 lux in center 24.66 lux in side	8.00 m

FDC 150W

Average Beam Angle = 92.3°/E
Max. Beam Angle = 105.5°/E at $\varphi\hat{O}1 = 60^\circ/\text{E} - \varphi\hat{O}2 = 240^\circ/\text{E}$
Min. Beam Angle = 76.5°/E at $\varphi\hat{O}1 = 0^\circ/\text{E} - \varphi\hat{O}2 = 180^\circ/\text{E}$



Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
FDC 100	100	E40 BASE	4,500K	12,000	200W	250W	FDC 100ECL
FDC150	150	E40 BASE	4,500K	18,000	250W	400W	FDC 150ECL
FDC150	150	E40 BASE	4,500K	18,000	250W	400W	FDC 150ECL
FDC 250	250	E40 BASE	4,500K	30,000	400W	400W	FDC 250ECL



1. Applications

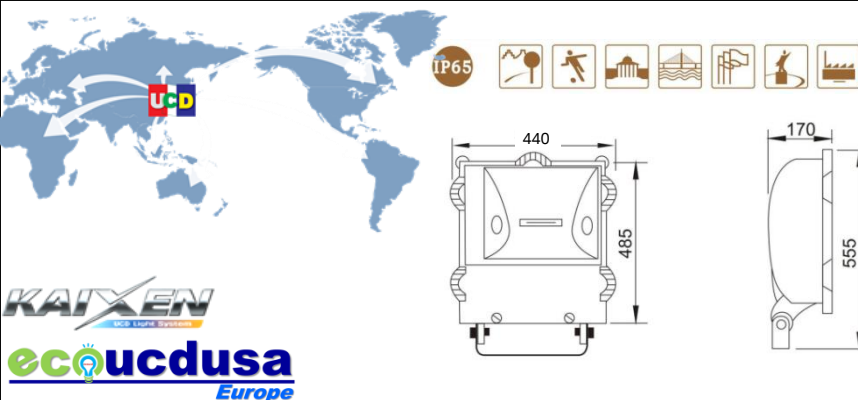
- Security and guard lighting
- Parking lot & industrial complex
- Floodlighting for buildings
- Floodlighting for bridges
- Artificial lighting for plant cultivation

2. Specification

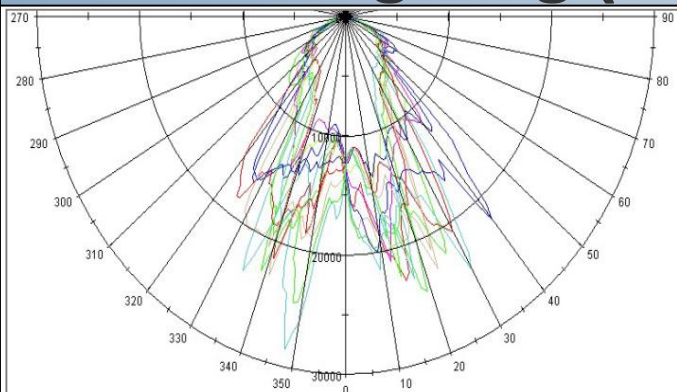
- AC input: 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power : 70/100/150/250W
- Working Temperature : -35°C~65°C
- Angle adjustable handle mounting

3. Features

- IP Rating : IP65
- Aluminum die casting fixture
- High intensity powder coating
- Tempered glass cover
- Casing Dimension : 440x415x143(mm)
- Weight: 70~250W – 5.8 Kg



12.Flood Lighting (FDE)



Beam Width : 3.0m

3260.0 lux in center
341.0 lux in side

Beam Width : 6.0m

814.0 lux in center
85.0 lux in side

Beam Width : 9.0m

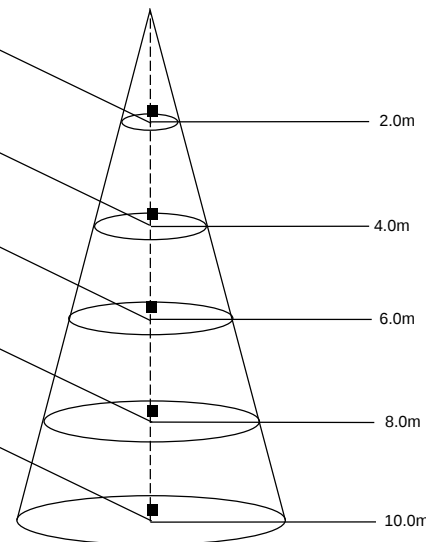
362.0 lux in center
38.0 lux in side

Beam Width : 12.0m

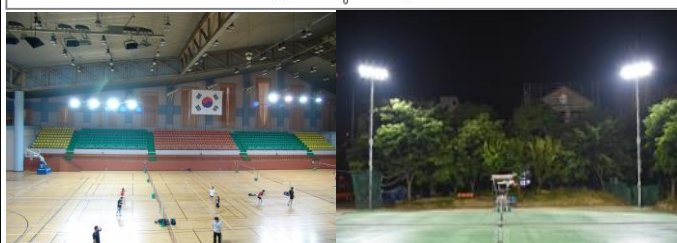
203.0 lux in center
21.0 lux in side

Beam Width : 15.0m

130.0 lux in center
14.0 lux in side



FDE300W



1. Applications

- Port & Tower mounted floodlight
- Tennis, Golf, etc. Sports lighting
- Flood lighting for large buildings
- Lighting for performance & event

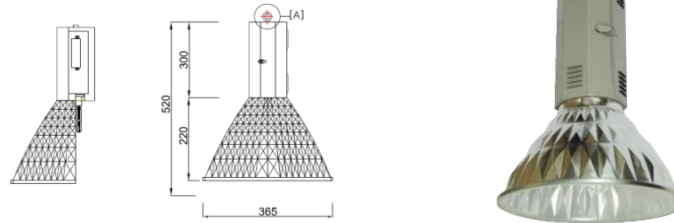
2. Specification

- AC input: 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power : 300W/500W
- Working Temperature : -35°C~65°C
- Angle adjustable handle mounting

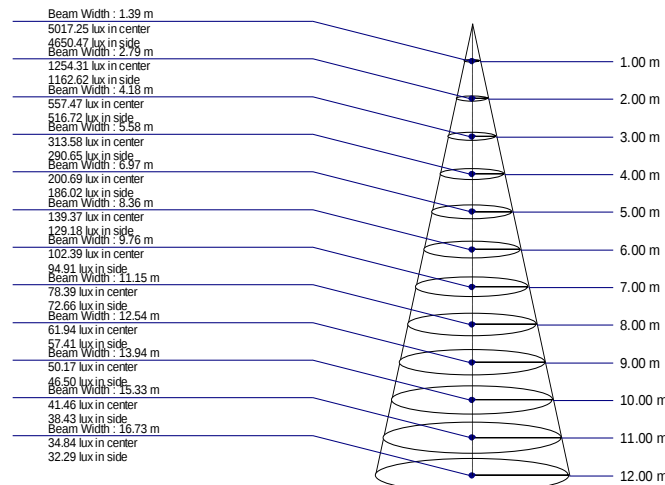
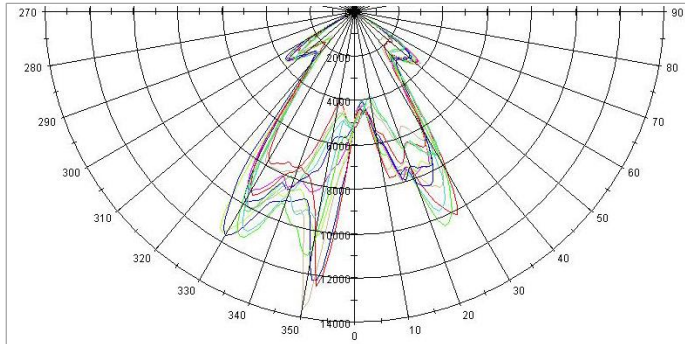
3. Features

- IP Rating : IP65
- Aluminum die casting fixture
- High intensity powder coating
- Tempered glass cover
- Casing Dimension** : 440x555x170(mm)
- Weight: 300W-14Kg (G/B-345x285x185)

Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
FDE 300	300	E40 BASE	4,500K	36,000	1,000W	1,000W	FDE 300ECL
FDE 500	500	E40 BASE	4,500K	60,000	1,000W	1,000W	FDE 500ECL
FDE 800	800	E40 BASE	4,500K	96,000	1,500W	2,000W	FDE 800ECL



12. Spot Lighting-Low (SPCA)



Average Beam Angle = 69.7°/E
Max. Beam Angle = 71.9°/E at $\varphi 01 = 15^\circ$ /E - $\varphi 02 = 195^\circ$ /E
Min. Beam Angle = 67.8°/E at $\varphi 01 = 135^\circ$ /E - $\varphi 02 = 315^\circ$ /E

SPCA 150W

Model	Watt'	Lamp Type	Kelvin	Lumen	나트륨등	메탈등	Order Code
SPCA 70	70	E27 BASE	4,500K	8,400	150W	175W	SPCA 70ECL
SPCA 100	100	E40 BASE	4,500K	12,000	200W	250W	SPCA 100ECL
SPCA 150	150	E40 BASE	4,500K	20,000	250W	400W	SPCA 150ECL



Applications

- Hi-bay ceiling light for factories
- Hi-bay ceiling light for workshops
- Indoor lighting at industrial complex
- Lighting for gymnasium
- Artificial lighting for plant cultivation

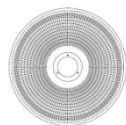
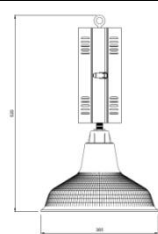
Specification

- AC input : 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power : 70/100/150W
- Working Temperature : -30~65°C

Features

- Aluminum reflector
- Vertical gear box
- Tempered glass cover

Casing Dimension :
365x520(mm) 14"
Weight : 70/100/150W – 3.5Kg



C Type



2-SN Type



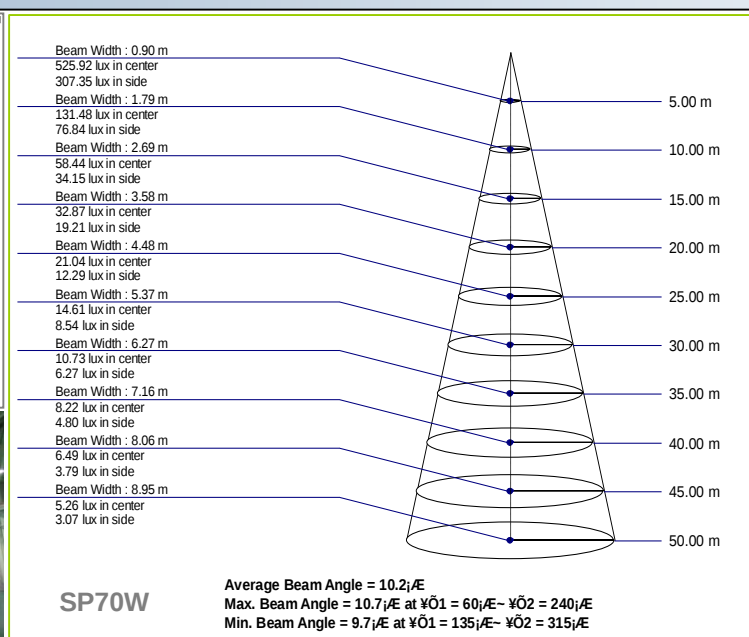
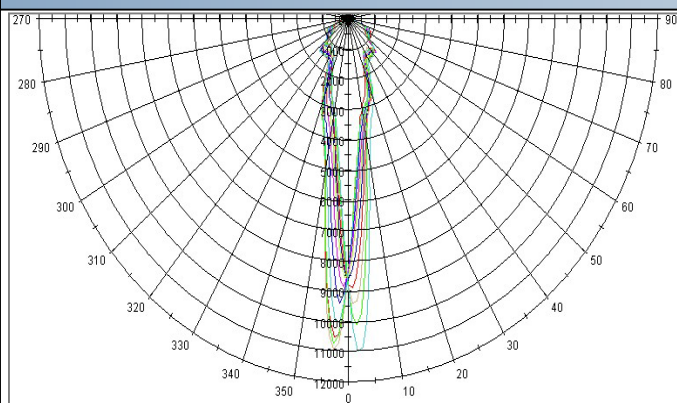
3-LN Type



4-LLN Type



13.Spot Lighting (SP)



Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
SP 50	50	E27 BASE	4,500K	6,000	100	150	SP 50EQL
SP 70	70	E27 BASE	4,500K	8,400	175	200	SP 70EQL
SP 50	50	E27 BASE	4,500K	6,000	100	150	SP 50ECL
SP 70	70	E27 BASE	4,500K	8,400	150	175	SP 70ECL



1. Applications

- Hi-bay ceiling light for factories
- Hi-bay ceiling light for workshops
- Indoor lighting at industrial complex
- Lighting for gymnasium
- Artificial lighting for plant cultivation

2. Specification

- AC input: 220V (180V~260V), 50/60Hz
- Lamp Power : 50/70W
- Working Temp: -35~65°C
- Fixed lighting components-Select/free supplies

1-C-Type:Chain-1m / 2-SN Type:niple connector

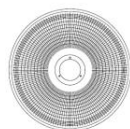
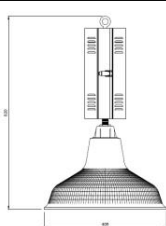
3-LN Type:300mm / 4-LLN Type:L Type Connector

3. Features

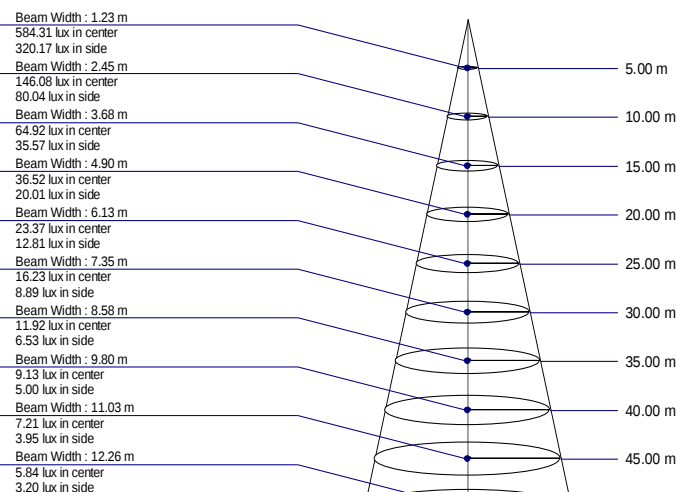
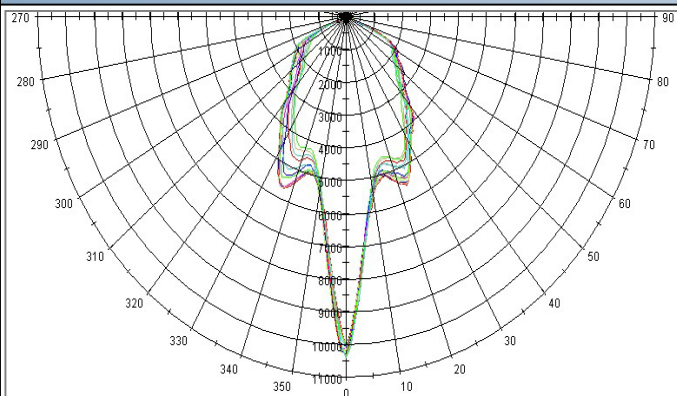
- Aluminum reflector (14")
- Vertical gear box

Casing Dimension : 365x520(mm)

Weight:50/70W – 2 Kg



14.Spot Lighting (SK)



SK150W

Average Beam Angle = 14.0°
Max. Beam Angle = 14.3° at Ø1 = 90° - Ø2 = 270°
Min. Beam Angle = 13.4° at Ø1 = 165° - Ø2 = 345°

Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
SK100	100	E40 BASE	4,500K	12,000	200W	250W	SK 100ECL
SK150	150	E40 BASE	4,500K	18,000	250W	400W	SK 150ECL

1. Applications

- In & outdoor lighting for factories
- Floodlight for buildings & bridges
- Security light for buildings & complex
- Lighting for stadium & tennis court

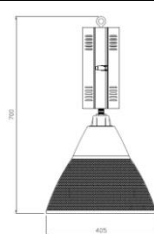
2. Specification

- AC input: 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power : 100/150W
- Working Temp: -35~65°C
- Fixed lighting components-Select/free supplies

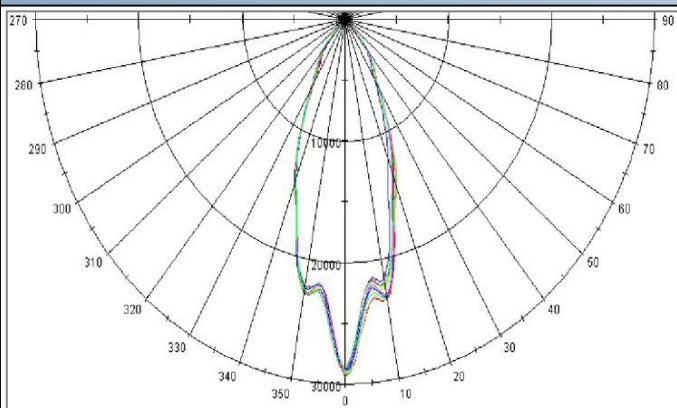
- 1-C-Type: Chain-1m / 2-SN Type: nipple connector
- 3-LN Type: 300mm / 4-LLN Type: L Type Connector

3. Features

- Aluminum reflector (16")
- Robust gear box
- Tempered glass cover
- Casing Dimension-SK : 405x620(mm)
- Weight: 100/150W - 4 Kg



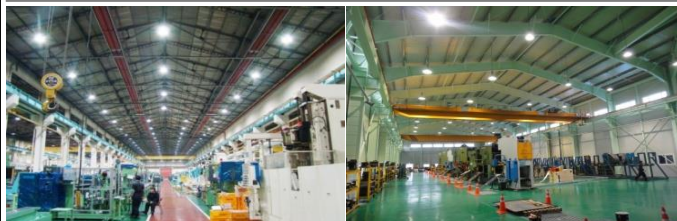
15.Spot Lighting (SKB)



Beam Width : 3.46 m	5.00 m
1158.84 lux in center	
550.22 lux in side	
Beam Width : 6.92 m	10.00 m
289.71 lux in center	
137.56 lux in side	
Beam Width : 10.38 m	15.00 m
128.76 lux in center	
61.14 lux in side	
Beam Width : 13.84 m	20.00 m
72.43 lux in center	
34.39 lux in side	
Beam Width : 17.30 m	25.00 m
46.35 lux in center	
22.01 lux in side	
Beam Width : 20.76 m	30.00 m
32.19 lux in center	
15.28 lux in side	
Beam Width : 24.22 m	35.00 m
23.65 lux in center	
11.23 lux in side	
Beam Width : 27.68 m	40.00 m
18.11 lux in center	
8.60 lux in side	
Beam Width : 31.14 m	45.00 m
14.31 lux in center	
6.79 lux in side	
Beam Width : 34.61 m	50.00 m
11.59 lux in center	
5.50 lux in side	

SKB 250

Average Beam Angle = 38.2 $\pm$ °
 Max. Beam Angle = 39.1 $\pm$ ° at φ 01 = 30 $\pm$ ° - φ 02 = 210 $\pm$ °
 Min. Beam Angle = 36.6 $\pm$ ° at φ 01 = 105 $\pm$ ° - φ 02 = 285 $\pm$ °



Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
SKB 250	250	E40 BASE	4,500K	30,000	400W	1,000W	SKB 250ECL
SKB 400W	400	E40 BASE	4,500K	48,000	1,000W	1,500W	SKB 400ECL



1. Applications

- In & outdoor lighting for factories
- Floodlight for buildings & bridges
- Security light for buildings & complex
- Lighting for stadium & tennis court
- Lighting for performance & event

2. Specification

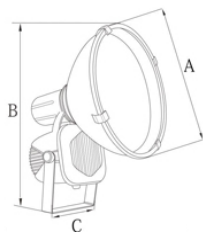
- AC input:220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Working Temp:-35~65°C
- Fixed lighting components-Select/free supplies

1-C-Type:Chain-1m / 2-SN Type:niple connector

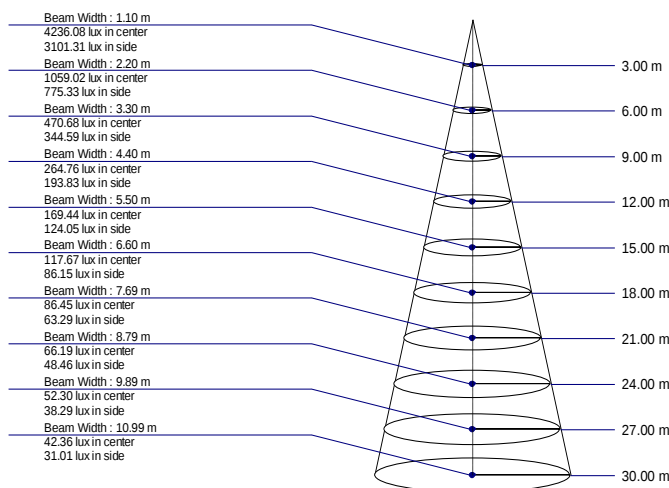
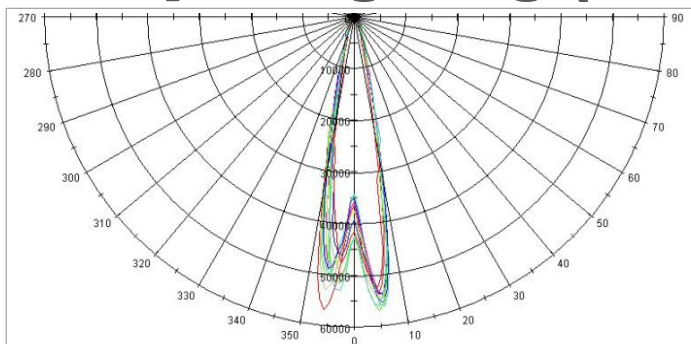
3-LN Type:300mm / 4-LLN Type:L Type Connector

3. Features

- Aluminum reflector(16")
- Robust gear box
- Tempered glass cover
- Casing Dimension-SKB :405x700(mm)
- Weight:250W-4.7 Kg



16. Spot Lighting (SPA)



SPA 150W

Average Beam Angle = 20.8°/E
 Max. Beam Angle = 22.2°/E at ¥01 = 30°/E - ¥02 = 210°/E
 Min. Beam Angle = 18.8°/E at ¥01 = 120°/E - ¥02 = 300°/E

Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	MH	Order Code
SPA 70	70	E27 BASE	4,500K	8,400	150W	175W	SPA 70ECL
SPA 100	100	E40 BASE	4,500K	13,500	200W	250W	SPA 100ECL
SPA 150	150	E40 BASE	4,500K	20,000	250W	400W	SPA 150ECL
SPA 250	250	E40 BASE	4,500K	30,500	400W	600W	SPA 250ECL

Applications

- In & outdoor lighting for factories
- Floodlight for buildings & bridges
- Security light for buildings & complex
- Lighting for stadium & tennis court
- Lighting for performance & event

Specification

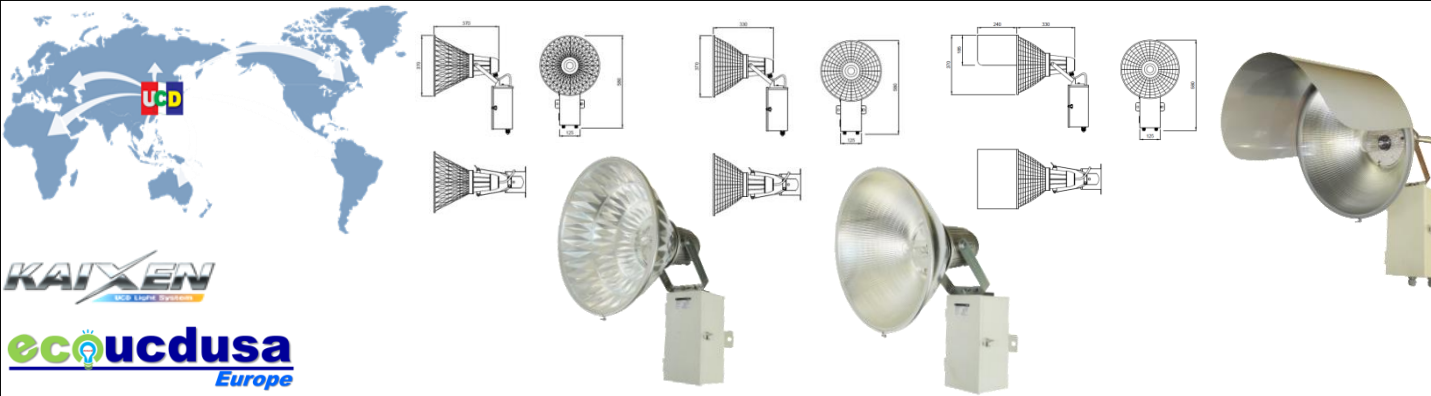
- AC input : 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power : 70/100/150/250W
- Working Temperature : -30~65°C
- Wall mounting

Features

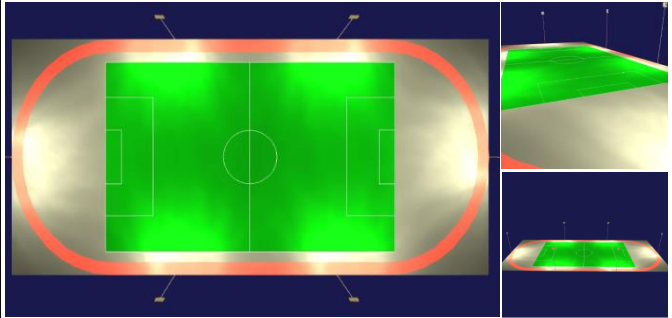
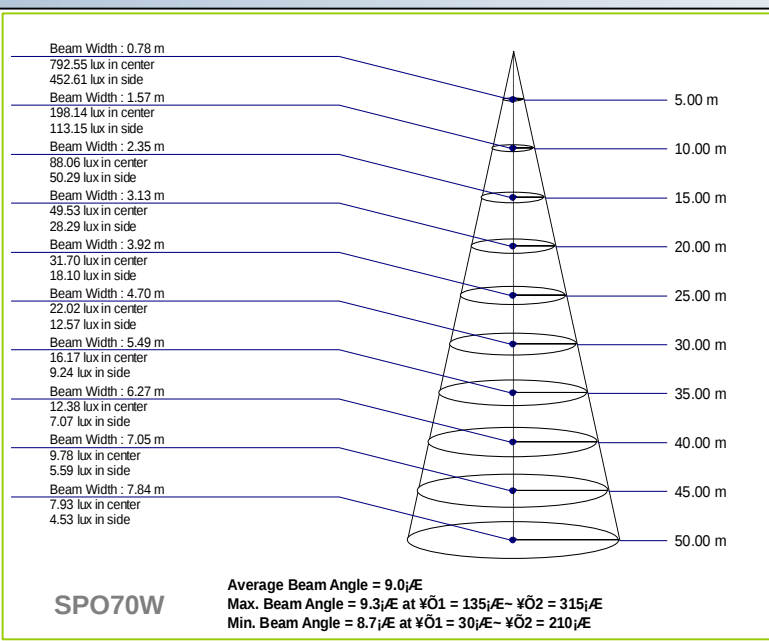
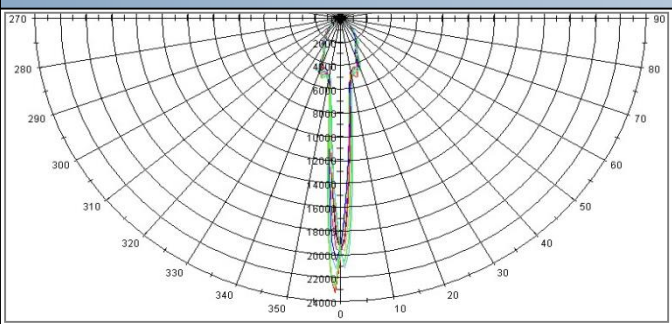
- Aluminum reflector & Lamp Holder
- Ballast gear box & IP65
- Tempered glass cover 5mm

Casing Dimension :

420x565x245(mm) 16"
 Weight : 70/150W – 4.6 / 5Kg



16.Spot Lighting-Outdoor (SPO/SPOT/SPOC)



Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
SPO 70	70	E26/27 BASE	4,500K	8,400	150W	175W	SPO 70ECL
SPOT/C 100	100	E39/40 BASE	4,500K	12,000	200W	250W	SPOT/C 100ECL
SPOT/C 150	150	E39/40 BASE	4,500K	18,000	250W	400W	SPOT/C 150ECL

1. Applications

- In & outdoor lighting for factories
- Floodlight for buildings & bridges
- Security light for buildings & complex
- Lighting for stadium & tennis court
- Lighting for performance & event

2. Specification

AC input: 220V (180V~260V), 50/60Hz

Output/Input Efficiency : 93%

Lamp Power : 70/100/150W

Working Temperature : -35°C~65°C

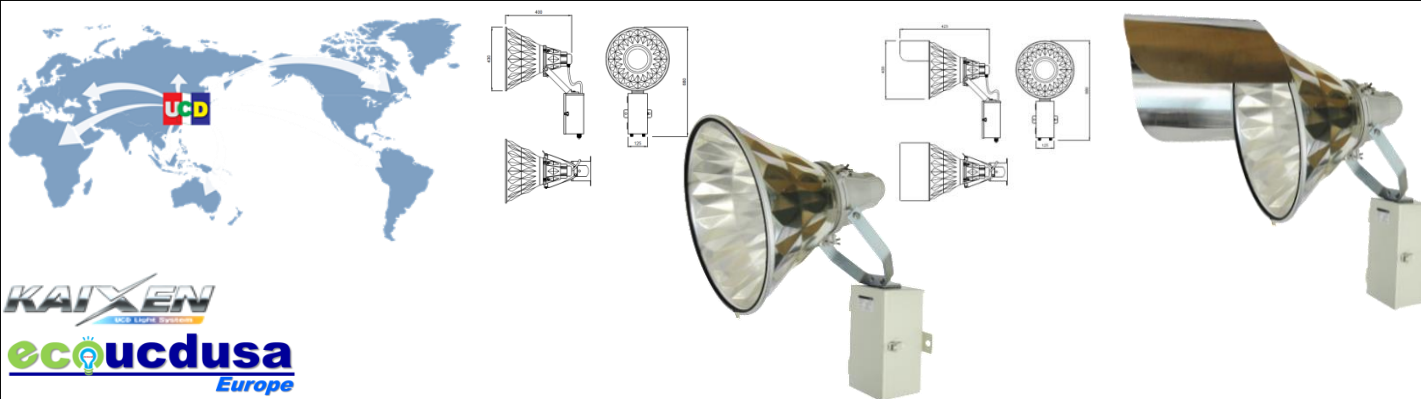
Wall mounting

3. Features

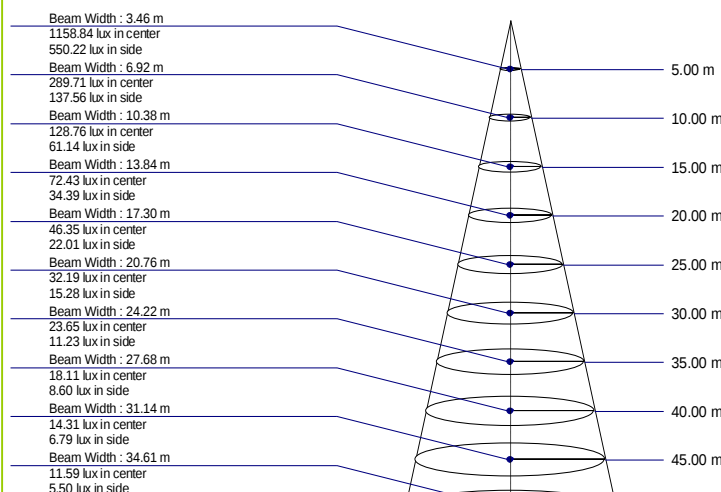
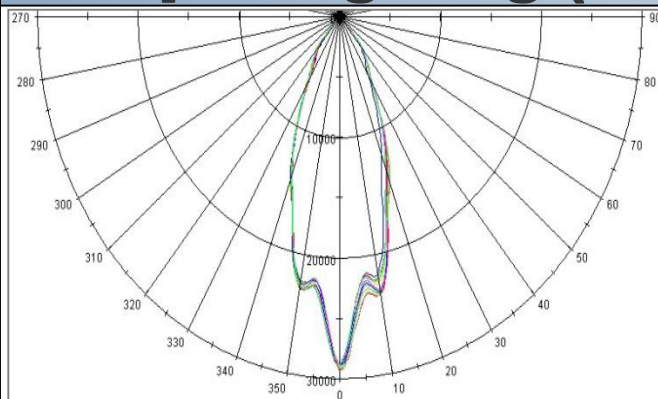
- Aluminum reflector & Lamp Holder
- Stainless Ballast gear box
- Tempered glass cover

Casing D-SPO : 370x370x580(mm)
 Casing D-SPOT : 370x330x580(mm)
 Casing D-SPOC : 370x560x670(mm)

Weight: 70//100/150W-4.0 / 4.3 Kg

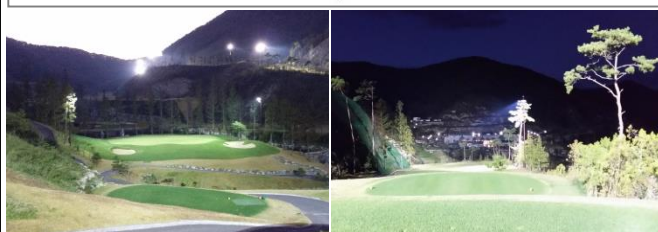


17.Spot Lighting (SPB/SPC)



SPB150W

Average Beam Angle = 38.2°
Max. Beam Angle = 39.1° at $\theta_1 = 30^\circ$ - $\theta_2 = 210^\circ$
Min. Beam Angle = 36.6° at $\theta_1 = 105^\circ$ - $\theta_2 = 285^\circ$



Model	Watt	Lamp Type	Kelvin	Lumen	나트륨	메탈등	Order Code
SPB 150	150	E39/40 BASE	4,500K	18,000	250W	400W	SPB 150ECL
SPB 250	250	E39/40 BASE	4,500K	30,000	400W	1,000W	SPB 250ECL
SPC 150	150	E39/40 BASE	4,500K	18,000	250W	400W	SPC 150ECL
SPC 250	250	E39/40 BASE	4,500K	30,000	400W	1,000W	SPC 250ECL
SPB/SPC 400	400	E39/40 BASE	4,500K	48,000	1,000W	1,500W	SPB/SPC 400ECL



1. Applications

- In & outdoor lighting for factories
- Floodlight for buildings & bridges
- Security light for buildings & complex
- Lighting for stadium & tennis court
- Lighting for performance & event

2. Specification

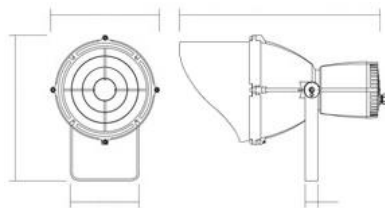
- AC input: 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power : 150/250W
- Working Temperature : -35°C~65°C
- Wall mounting

3. Features

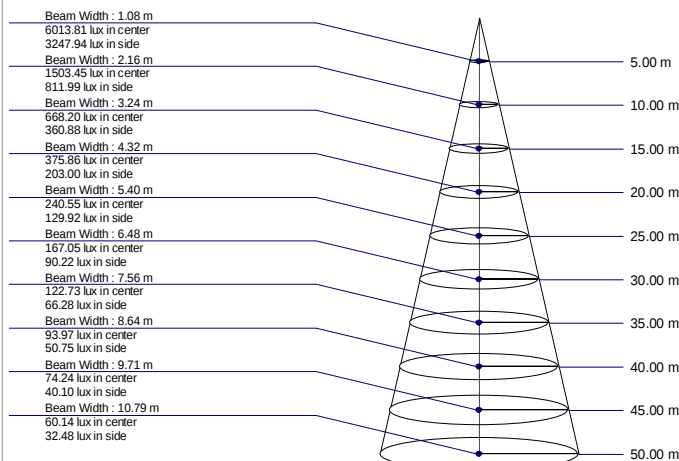
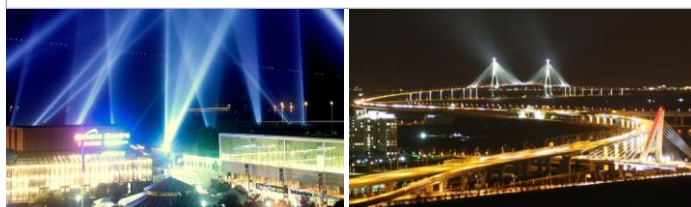
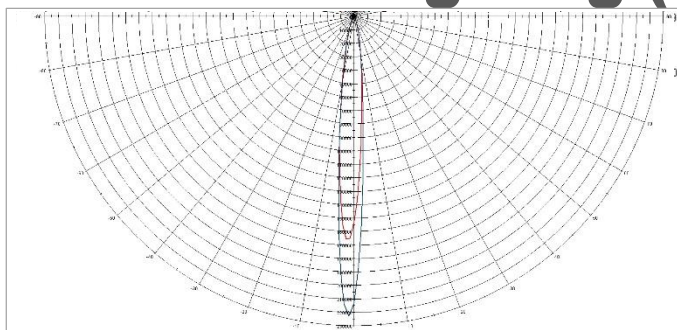
- Aluminum reflector & Lamp Holder
- Stainless Ballast gear box
- Tempered glass cover

Casing D-SPB : 430x400x680(mm)
Casing D-SPC : 430x425x680(mm)

Weight: 150/250W-6.0 / 6.2Kg



19. Search Lighting (SLK)



SLK 250W

Average Beam Angle = 12.3;°E
Max. Beam Angle = 14.7;°E at YÖ1 = 165;°E- YÖ2 = 345;°E
Min. Beam Angle = 9.6;°E at YÖ1 = 90;°E- YÖ2 = 270;°E

Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	MH	Order Code
SLK 250	250	E39/40 BASE	4,500K	30,500	600W	1,000W	SLK 250ECL-S

Applications

- High viaduct piers and structures
- Coast Guard/dangerous boundary
- Military airfield perimeter Searchlight
- Disaster and distress special lighting
- Special search lighting

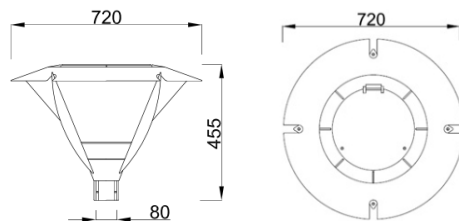
Specification

- AC input : 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power : 250W
- Working Temperature : -30~65°C
- Wall mounting

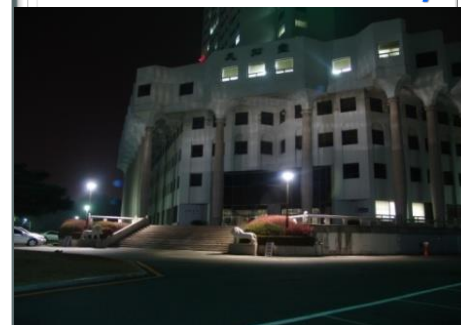
Features

- IP Rating : IP65
- Aluminum die casting fixture
- High intensity powder coating
- Tempered glass cover

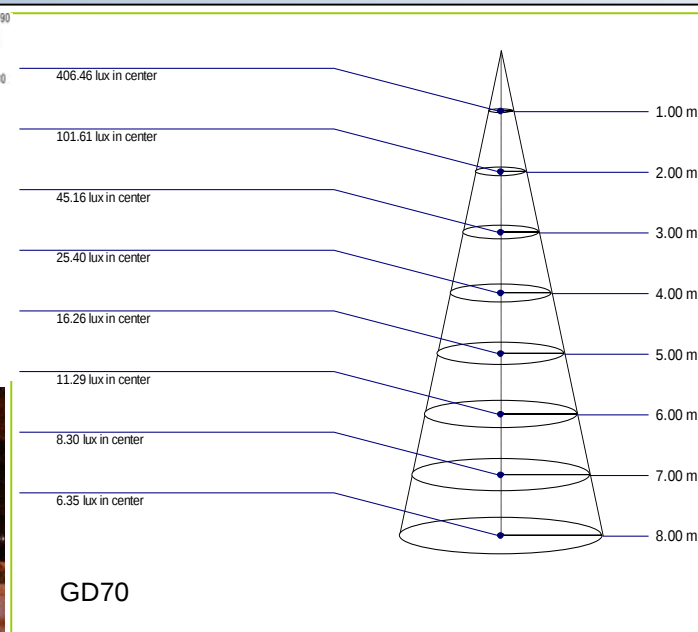
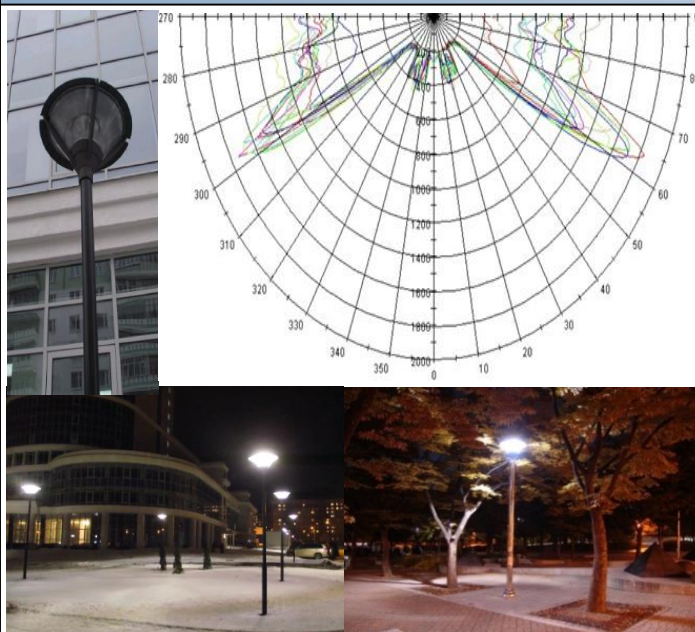
Casing Dimension :
400x300x562(mm)
Weight : 250/315W – 11Kg



ecoucdusa
Europe



18. Garden Lighting (GD)



1. Applications

- Garden light
- Design oriented street light
- Landscape lighting at resort area
- Landscape lighting for buildings
- Lighting for large scaled parking lot

2. Specification

- AC input: 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power : 70/100/150W
- Working Temperature : -35°C~65°C
- Mounting spigot : $\varnothing 80$

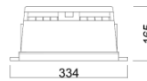
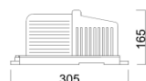
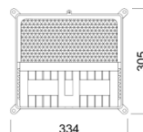
3. Features

- Aluminum die casting fixture
- High intensity powder coating
- Poly carbonate cover

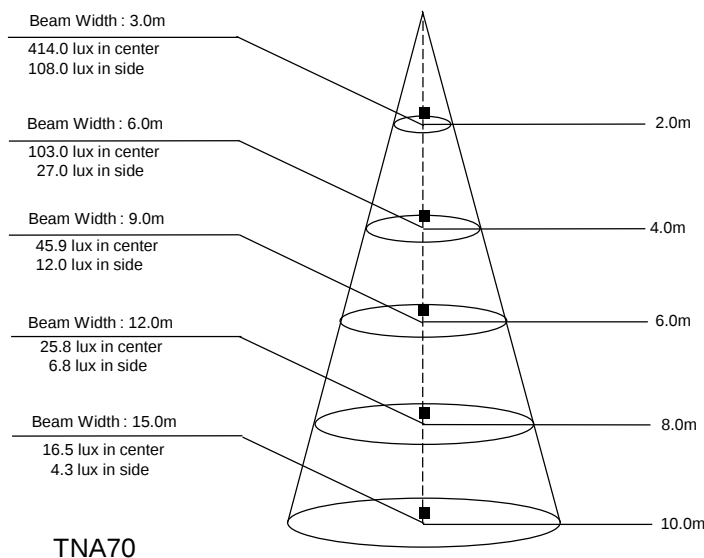
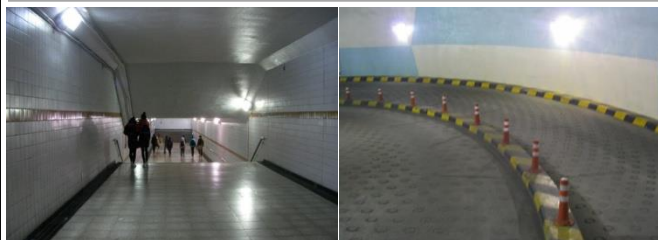
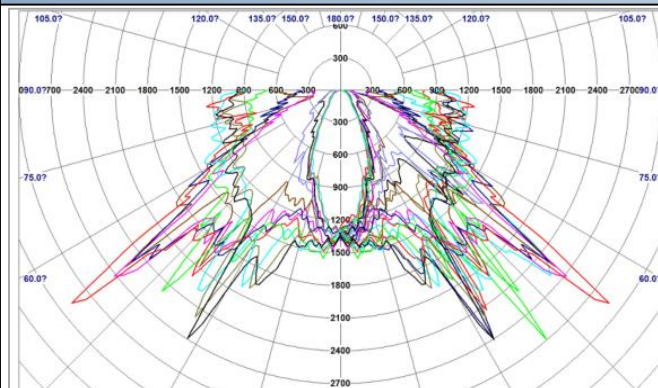
Casing Dimension : $\varnothing 720 \times 455$ (mm)

Weight: 70/100/150W-8.7 / 9.5Kg

Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
GD 70	70	E26/27 BASE	4,500K	8,400	150W	175W	GD 70ECL
GD 100	100	E39/40 BASE	4,500K	12,000	200W	250W	GD 100ECL
GD 150	150	E39/40 BASE	4,500K	18,000	250W	400W	GD 150ECL



19. Tunnel Lighting (TNA)



Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
TNA 50	50	E26/27 BASE	4,500K	6,500	100W	150W	TNA 50EQL
TNA 70	70	E26/27 BASE	4,500K	8,400	175W	200W	TNA 70EQL
TNA 50	50	E26/27 BASE	4,500K	6,000	100W	150W	TNA 50ECL
TNA 70	70	E26/27 BASE	4,500K	8,400	150W	175W	TNA 70ECL



1. Applications

- Lighting for pedestrian underpass
- Lighting for underground parking lot
- Indoor security light
- Emergency light

2. Specification

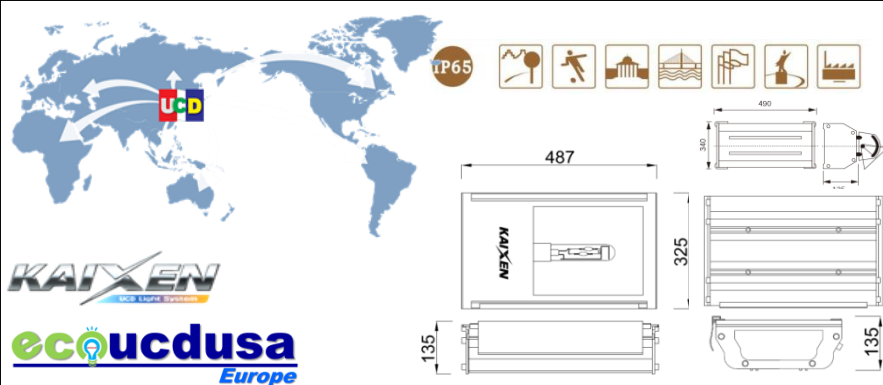
- AC input: 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 91%
- Lamp Power : 50/70W
- Working Temperature : -35°C~65°C
- Wall mounting

3. Features

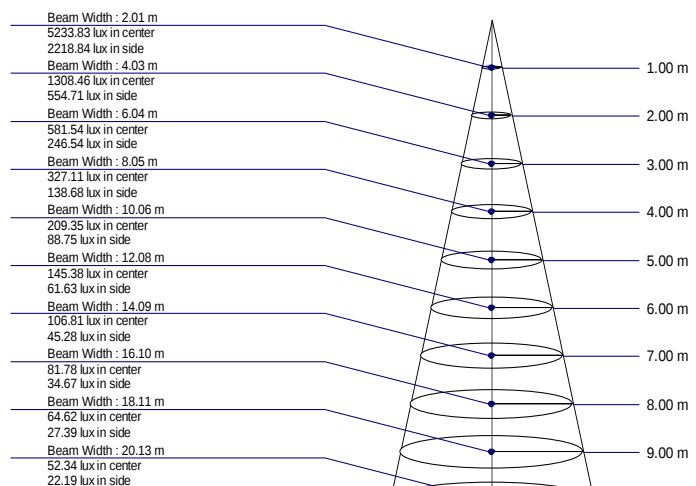
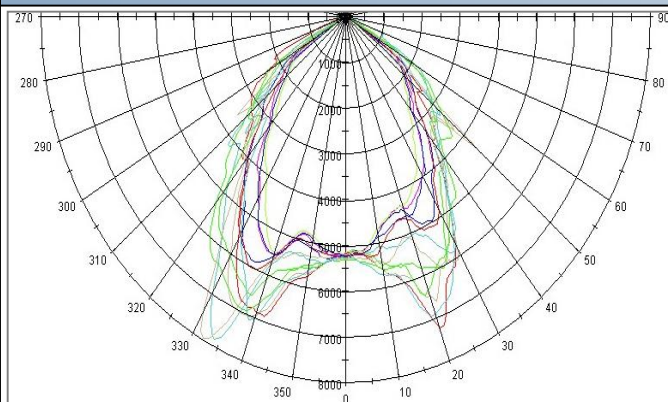
- Aluminum die casting fixture
- High intensity powder coating
- Glass cover

Casing Dimension : 334x305x165(mm)

Weight: 50/70W-4.6Kg



20. Tunnel & Indoor Lighting (TNB)



TNB150

Average Beam Angle = 90.4°
 Max. Beam Angle = 100.8° at $\theta_1 = 150^\circ$ - $\theta_2 = 330^\circ$
 Min. Beam Angle = 80.4° at $\theta_1 = 90^\circ$ - $\theta_2 = 270^\circ$

Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
TNB 70	70	E26/27 BASE	4,500K	8,400	150W	175W	TNB 70ECL
TNB 100	100	E39/40 BASE	4,500K	12,000	200W	250W	TNB 100ECL
TNB 150	150	E39/40 BASE	4,500K	18,000	250W	400W	TNB 150ECL
TNB 250	250	E39/40 BASE	4,500K	30,000	400W	1,000W	TNB 250ECL



1. Applications

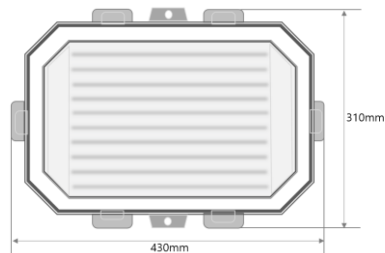
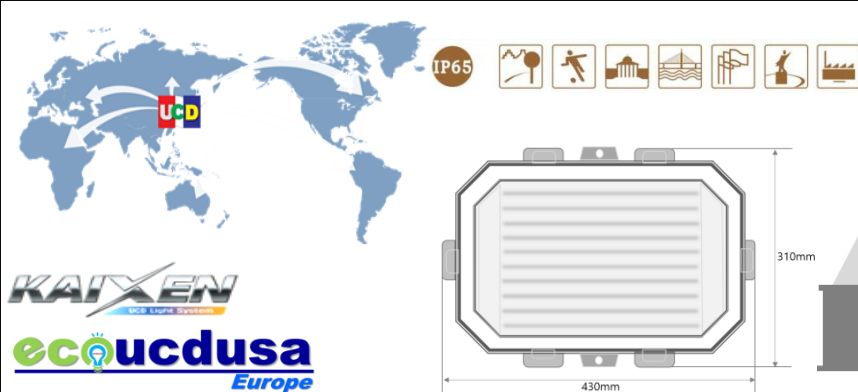
- Tunnel light
- Floodlight for large scaled basement
- Indoor security light
- Emergency light

2. Specification

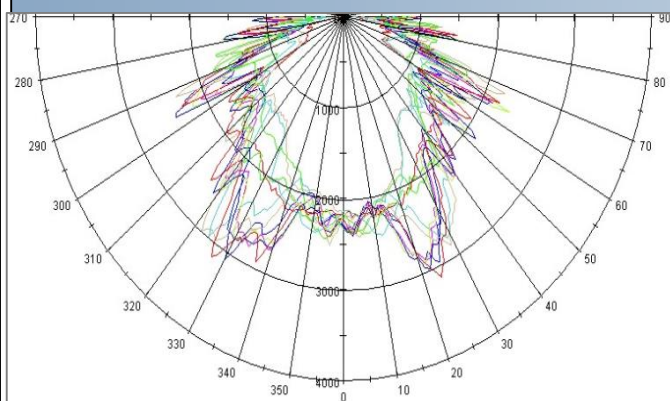
- AC input: 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power : 70/100/150/250W
- Working Temperature : -35°C~65°C
- Bracket mounting

3. Features

- IP Rating : IP65
- Aluminum die casting fixture
- High intensity powder coating
- Tempered glass cover
- Casing Dimension** : 487x325x135(mm)
- Weight: 70/150W-7.2Kg



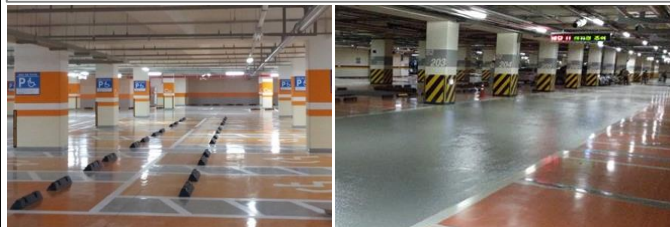
22.Tunnel & Indoor Lighting (TNK)



Beam Width : 3.25 m 2239.13 lux in center 701.92 lux in side	1.00 m
Beam Width : 6.51 m 559.78 lux in center 175.48 lux in side	2.00 m
Beam Width : 9.76 m 248.79 lux in center 77.99 lux in side	3.00 m
Beam Width : 13.01 m 139.95 lux in center 43.87 lux in side	4.00 m
Beam Width : 16.26 m 89.57 lux in center 28.08 lux in side	5.00 m
Beam Width : 19.52 m 62.20 lux in center 19.50 lux in side	6.00 m
Beam Width : 22.77 m 45.70 lux in center 14.32 lux in side	7.00 m
Beam Width : 26.02 m 34.99 lux in center 10.97 lux in side	8.00 m

TNK100W

Average Beam Angle = 116.8 $^{\circ}$ E
Max. Beam Angle = 133.5 $^{\circ}$ E at Ψ 01 = 30 $^{\circ}$ E- Ψ 02 = 210 $^{\circ}$ E
Min. Beam Angle = 90.0 $^{\circ}$ E at Ψ 01 = 45 $^{\circ}$ E- Ψ 02 = 225 $^{\circ}$ E



Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
TNK 70	70	E26/27 BASE	4,500K	7,600	150W	175W	TNK 70ECL
TNK 100	100	E39/40 BASE	4,500K	13,500	200W	250W	TNK 100ECL
TNK 150	150	E39/40 BASE	4,500K	20,500	250W	400W	TNK 150ECL



1. Applications

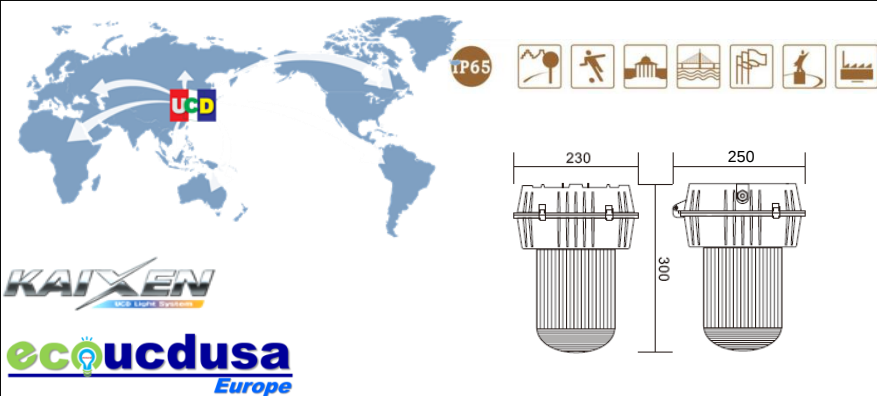
- Tunnel light
- Floodlight for large scaled basement
- Indoor security light
- Emergency light

2. Specification

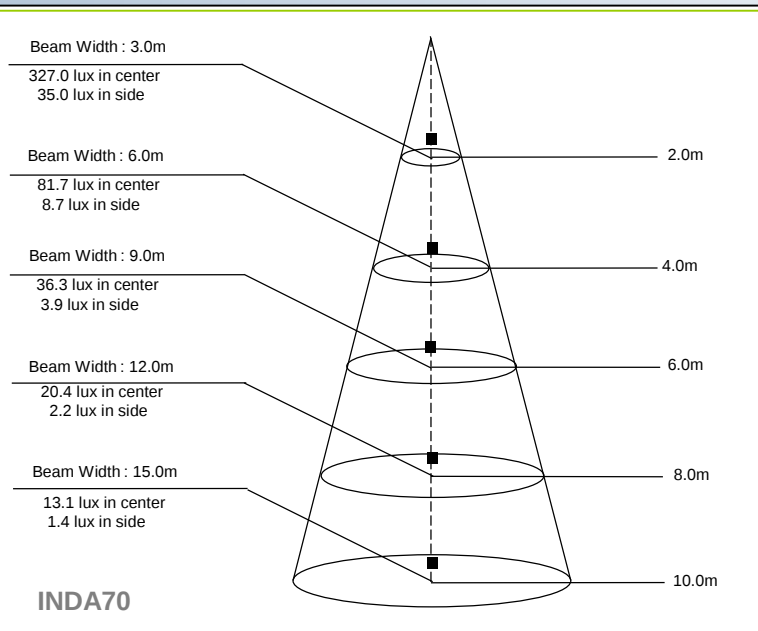
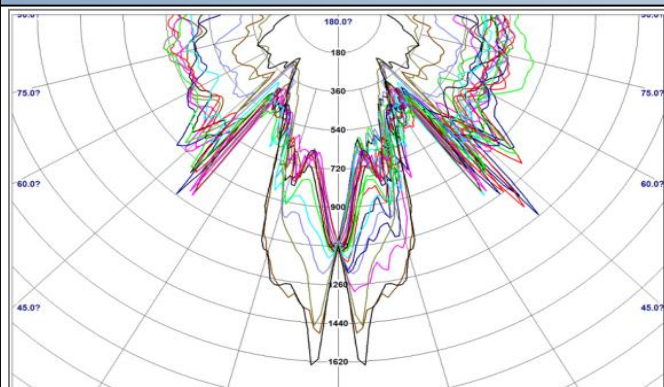
- AC input: 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power : 70/100/150/250W
- Working Temperature : -35 $^{\circ}$ C~65 $^{\circ}$ C
- Bracket mounting

3. Features

- IP Rating : IP65
- Aluminum die casting fixture
- High intensity powder coating
- Tempered glass cover
- Casing Dimension : 430x320x230(mm)
- Weight: 70/100/150W-6.7Kg



21.Industrial Lighting (INDA)



1. Applications

- Lighting for gas stations
- Provisional explosion-proof lighting
- Lighting for tunnel and closed area
- Lighting for underground parking lot
- Lighting for airbase & aviation shed

2. Specification

- AC input: 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 91%
- Lamp Power : 50/70W
- Working Temperature : -35°C~65°C
- Bracket mounting

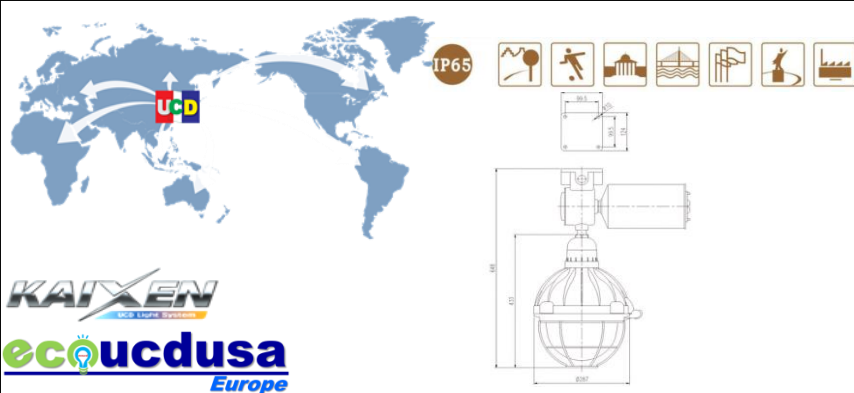
3. Features

- Aluminum die casting fixture
- High intensity powder coating
- Tempered glass cover

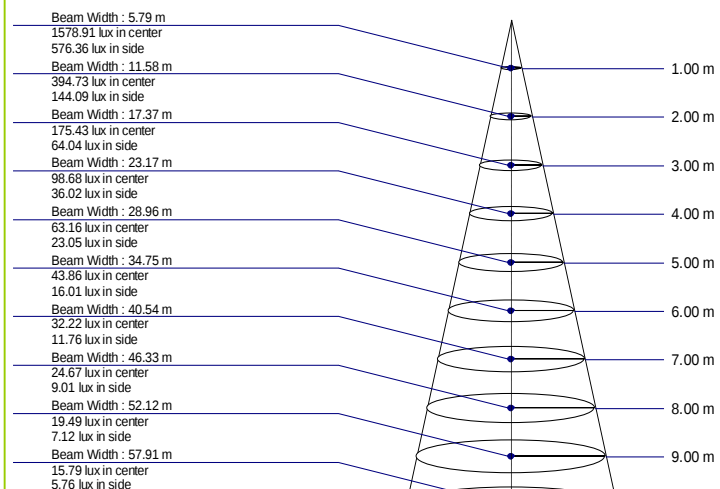
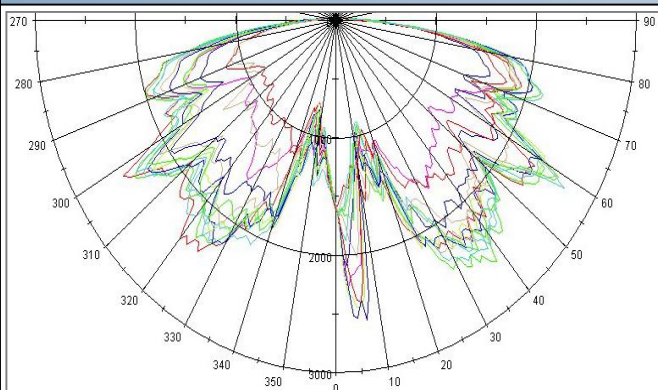
Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
INDA 50	50	E26/27 BASE	4,500K	7,300	100	150	INDA 50EQL
INDA 70	70	E26/27 BASE	4,500K	9,200	175	200	INDA 70EQL
INDA 50	50	E26/27 BASE	4,500K	6,000	100	150	INDA 50ECL
INDA 70	70	E26/27 BASE	4,500K	8,400	150	175	INDA 70ECL

Casing Dimension : 300x250(mm)ø140

Weight: 50/70W-3.2Kg



22. Explosion-proof Lighting (EXA)



EXA150

Average Beam Angle = 141.9°/E
Max. Beam Angle = 166.5°/E at $\varphi 01 = 15^\circ$ /E - $\varphi 02 = 195^\circ$ /E
Min. Beam Angle = 92.5°/E at $\varphi 01 = 90^\circ$ /E - $\varphi 02 = 270^\circ$ /E



1. Applications

- Explosion-proof light at hazardous area
- Lighting for gas station
- Hazardous area lighting in oil tanker
- Lighting for aviation shed
- Flammable area lighting

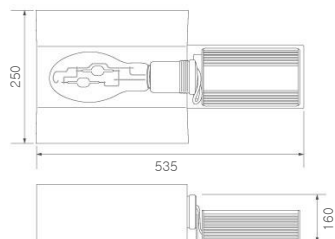
2. Specification

- AC input: 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power : 70/100/150W
- Working Temperature : -35°C~65°C
- Ceiling mount or wall mount

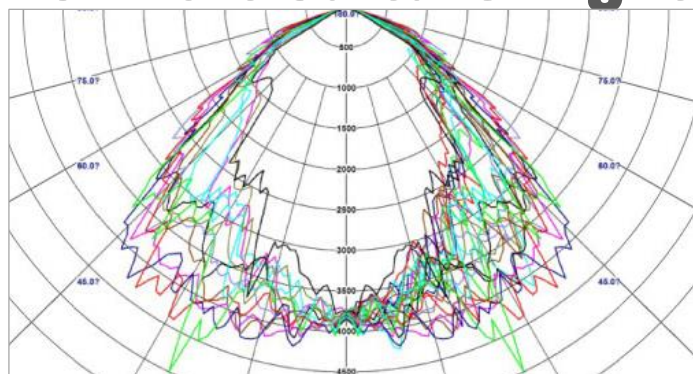
3. Features

- IP Rating : IP65
- Aluminum die casting fixture
- High intensity powder coating
- Tempered glass cover
- Casing Dimension** : 642x505x310(mm)
- Weight: 70W-12.0 Kg / 150W-13.0Kg

Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	M/H	Order Code
EXA 70	70	E26/27 BASE	4,500K	8,400	150W	175W	EXA 70ECL
EXA 100	100	E39/40 BASE	4,500K	12,000	200W	250W	EXA 100ECL
EXA 150	150	E39/40 BASE	4,500K	18,000	250W	400W	EXA 150ECL



26. Horticulture Lighting (HL)



Beam Width : 2.08 m 3776.05 lux in center 1578.46 lux in side	1.00 m
Beam Width : 4.16 m 944.01 lux in center 394.62 lux in side	2.00 m
Beam Width : 6.24 m 419.56 lux in center 175.38 lux in side	3.00 m
Beam Width : 8.32 m 236.00 lux in center 98.65 lux in side	4.00 m
Beam Width : 10.41 m 151.04 lux in center 63.14 lux in side	5.00 m
Beam Width : 12.49 m 104.89 lux in center 43.85 lux in side	6.00 m
Beam Width : 14.57 m 77.06 lux in center 32.21 lux in side	7.00 m
Beam Width : 16.65 m 59.00 lux in center 24.66 lux in side	8.00 m

HL 150W

Average Beam Angle = 92.3°/E
Max. Beam Angle = 105.5°/E at $\theta_1 = 60^\circ$ /E- $\theta_2 = 240^\circ$ /E
Min. Beam Angle = 76.5°/E at $\theta_1 = 0^\circ$ /E- $\theta_2 = 180^\circ$ /E

Model	Watt'	Lamp Type	Kelvin	Lumen	Sodium	MH	Order Code
HL 70	70	E26/27 BASE	4,500K	9,600	150W	175W	HL 70ECL
HL 100	100	E39/40 BASE	4,500K	13,500	200W	250W	HL 100ECL
HL 150	150	E39/40 BASE	4,500K	20,500	250W	400W	HL 150ECL
HL 250	250	E39/40 BASE	4,500K	30,500	600W	1,000W	HL 250ECL

Applications

- Greenhouse Horticulture Lighting
- Glass & plastic Plant Lighting
- Simple to install indoor lighting

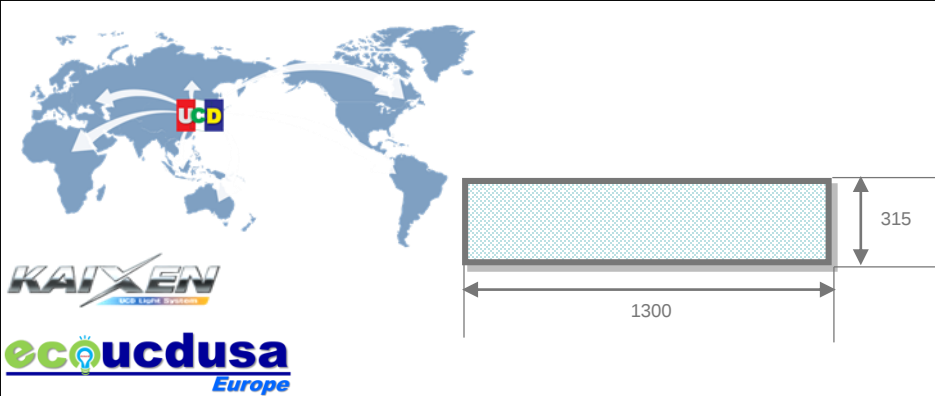
Specification

- AC input : 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 93%
- Lamp Power : 70/100/150/250W
- Working Temperature : -30~65°C
- Ceiling mount or wall mount

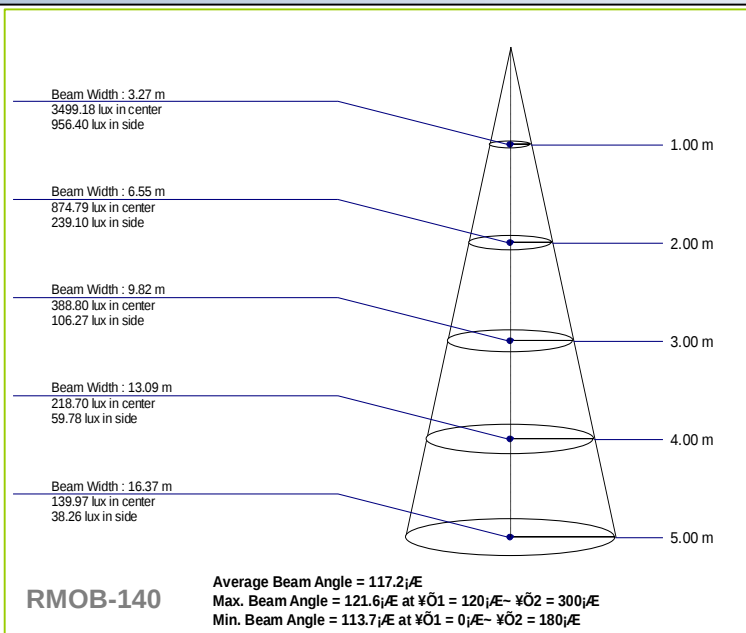
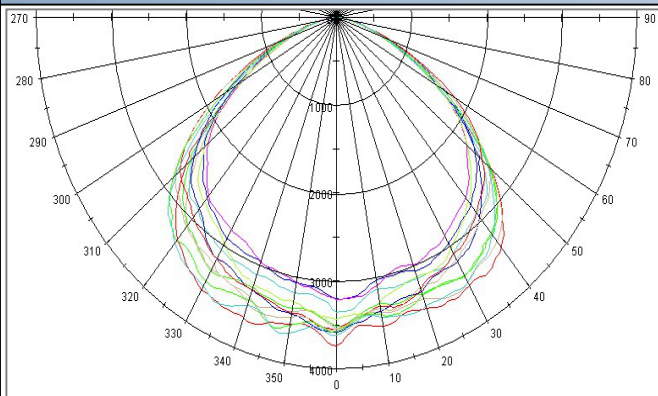
Features

- IP Rating : IP65
- Aluminum die casting fixture
- High intensity powder coating
- Tempered glass cover

Casing Dimension :
535x250x160(mm)
Weight : 150W-1Kg / 250W-1.1Kg



28.Room & Office Lighting (RMOA/RMOB)



1. Applications

- Interior lighting for office & living room
- Hi quality natural lighting
- Natural lighting for restaurants
- Lighting for design office & study room
- Lighting for precision works

2. Specification

- AC input : 220V (180V~260V), 50/60Hz
- Output/Input Efficiency : 91%
- Lamp Power:50/70W, 100/140W
- Working Temperature : -35°C~65°C
- Ceiling mount

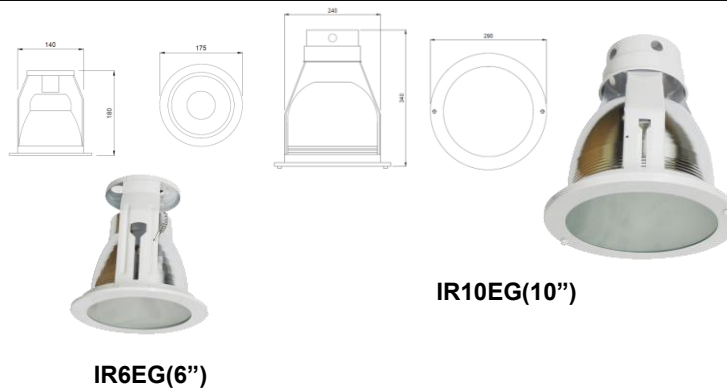
3. Features

- Glass for diffused transmittance
- High intensity powder coating
- High luminance prism cover

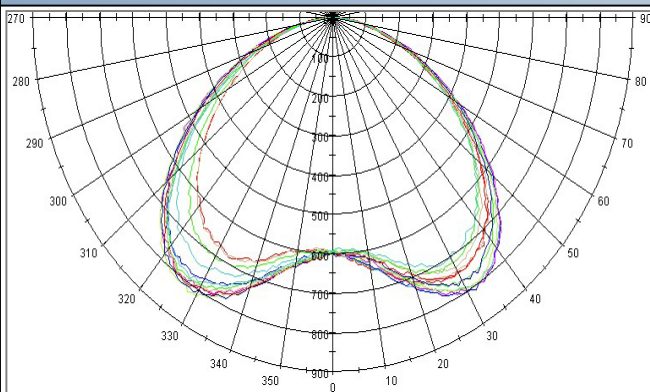
Casing Dimension : 680x315x93(mm)
 1300x315x93(mm)

Weight:50/70W-4kg / 100/140W-7Kg

Model	Watt'	Lamp Type	Kelvin	Lumen	Fluor'-Lamp	LED	Order Code
RMOA 50	50	E26/27 BASE	4,500K	6,000	100	150	RMOA 50EQL
RMOA 70	70	E26/27 BASE	4,500K	8,400	175	200	RMOA 70EQL
RMOB 100	50x2	E26/27 BASE	4,500K	12,000	200	250	RMOB 100EQL
RMOB 140	70x2	E26/27 BASE	4,500K	16,800	250	400	RMOB 140EQL



25.Room & Office Lighting (IR6EG, IR10EG)



Beam Width : 18.80 m	23.92 lux in center	7.78 lux in side	5.00 m
Beam Width : 37.59 m	5.98 lux in center	1.95 lux in side	10.00 m
Beam Width : 56.39 m	2.66 lux in center	0.86 lux in side	15.00 m
Beam Width : 75.18 m	1.50 lux in center	0.49 lux in side	20.00 m
Beam Width : 93.98 m	0.96 lux in center	0.31 lux in side	25.00 m
Beam Width : 112.77 m	0.66 lux in center	0.22 lux in side	30.00 m
Beam Width : 131.57 m	0.49 lux in center	0.16 lux in side	35.00 m
Beam Width : 150.37 m	0.37 lux in center	0.12 lux in side	40.00 m
Beam Width : 169.16 m	0.30 lux in center	0.10 lux in side	45.00 m
Beam Width : 187.96 m	0.24 lux in center	0.08 lux in side	50.00 m

IR6EG-50

Average Beam Angle = 124.0°/E
 Max. Beam Angle = 125.5°/E at ¥Ö1 = 75°/E - ¥Ö2 = 255°/E
 Min. Beam Angle = 122.3°/E at ¥Ö1 = 0°/E - ¥Ö2 = 180°/E



1. Applications

- Interior lighting for office & living room
- Hi quality natural lighting
- Natural lighting for restaurants
- Lighting for design office & study room
- Lighting for precision works

2. Specification

- AC input : 220V(180V~260V), 50/60Hz
- Output/Input Efficiency : 91%
- Lamp Power : 50/70W, 100/150W
- Working Temperature : -35°C~65°C
- Ceiling mount

3. Features

- Glass for diffused transmittance

- High intensity powder coating

Casing D-IR6 : 180x190(mm) 6"

Casing D-IR10 : 290x330(mm) 10"

Weight: 50, 70/100, 150W-1.2Kg / 2.3Kg

Model	Watt'	Lamp Type	Kelvin	Lumen	Fluor'-Lamp	LED	Order Code
IR6EG 50	50	E26/27 BASE	4,500K	7,300	90W	70W	IR6EG 50ECL
IR6EG 70	70	E26/27 BASE	4,500K	8,400	140W	100W	IR6EG 70ECL
IR10EG 100	100	E39/40 BASE	4,500K	12,000	200W	150W	IR10EG 100ECL
IR10EG 150	150	E39/40 BASE	4,500K	18,000	240W	200W	IR10EG 150ECL

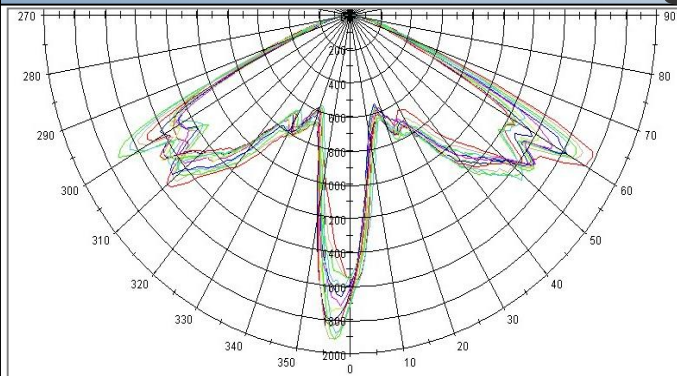


IR6EG(6'')

IR8E(8'')



26.Room & Office Lighting (IR6E, IR8E)



Beam Width : 1.49 m
1951.07 lux in center
721.46 lux in side

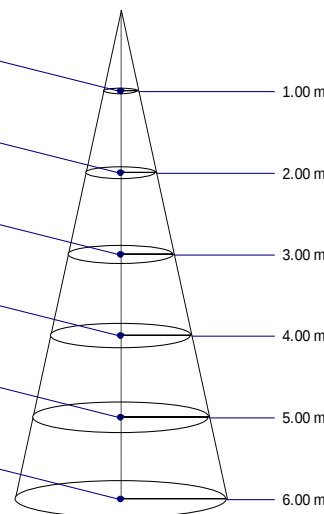
Beam Width : 2.98 m
487.77 lux in center
180.36 lux in side

Beam Width : 4.47 m
216.79 lux in center
80.16 lux in side

Beam Width : 5.96 m
121.94 lux in center
45.09 lux in side

Beam Width : 7.46 m
78.04 lux in center
28.86 lux in side

Beam Width : 8.95 m
54.20 lux in center
20.04 lux in side



IR6E-70W

Average Beam Angle = 73.4°/E
Max. Beam Angle = 103.7°/E at $\varphi 01 = 120^\circ$ /E - $\varphi 02 = 300^\circ$ /E
Min. Beam Angle = 21.1°/E at $\varphi 01 = 105^\circ$ /E - $\varphi 02 = 285^\circ$ /E

1. Applications

- Interior lighting for office & living room
- Hi quality natural lighting
- Natural lighting for restaurants
- Lighting for design office & study room
- Lighting for precision works

2. Specification

- AC input : 220V(180V~260V), 50/60Hz
- Output/Input Efficiency : 91%
- Lamp Power : 50/70W, 100/150W
- Working Temperature : -35°C~65°C
- Ceiling mount

3. Features

Glass for diffused transmittance

High intensity powder coating

Casing D-IR6 : 180x190(mm) 6"

Casing D-IR10 : 290x330(mm) 10"

Weight: 50, 70/90, 140W-1.2Kg / 2.3Kg

Model	Watt'	Lamp Type	Kelvin	Lumen	Fluor'-Lamp	LED	Order Code
IR6E 50	50	E26/27 BASE	4,500K	7,300	90W	70W	IR6E 50ECL
IR6E 70	70	E26/27 BASE	4,500K	8,400	140W	100W	IR6E 70ECL
IR8E 100	100	E39/40 BASE	4,500K	12,000	200W	150W	IR8E 100ECL
IR8E 150	150	E39/40 BASE	4,500K	18,000	240W	200W	IR8E 150ECL

Excellent Spectrum of UCD Lamp

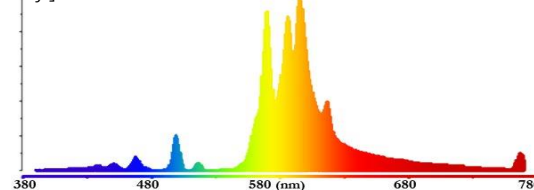
Q : The lighting of Hi-pressure Sodium lamp looks darker than that of UCD lighting.
But why is the Lux reading of HPS surprisingly higher than UCD's sometimes?

The Lux is the unit of illuminance in the International System of Units (SI). It is defined in terms of lumens per meter squared (lm/m^2) and to measure at 555 nano-meter only. Therefore HPS having strong spectrum at 555nm only may have higher Lux reading.

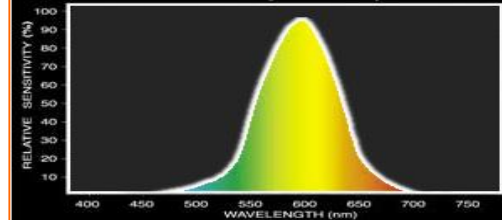
1. Hi-pressure Sodium Lamp

The spectrum of HPS coincides with the standard wavelength of Lux measurement, 555nm which is most sensitive by human eye as well. Therefore its Lux reading may higher and its light can be easily visible from farthest distance. But its lighting performance is actually darker and provides very low visibility.

[HPS spectrum concentrated in 550~650nm only]

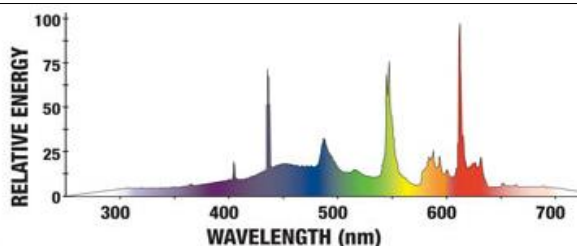


Human-Eye Response

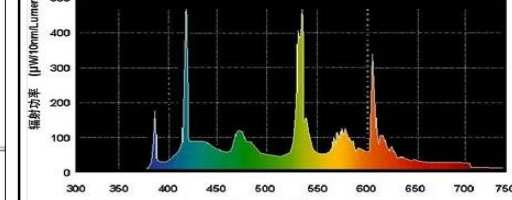


2. Metal Halide/LED/Induction Lamps

The spectrum of Metal Halide Lamp shows 3 primary color peaks, Red-Green-Blue. As a white light source providing better color rendering than that of HPS, it replaces HPS. However it does not provide good quality of lighting because of stronger greenish color and flickering.

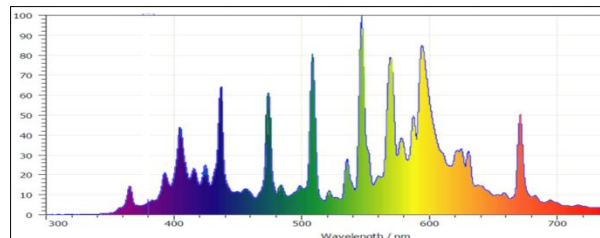


[Spectrum of Induction Lamp]



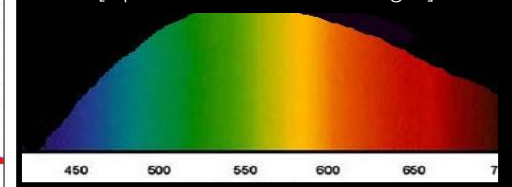
3. UCD Lamp

The spectrum of UCD shows all rainbow colors in visible light band which is from 400nm to 700nm. Therefore its Lux reading only at 555nm may be lower than HPS. But UCD lighting is actually much brighter and provides near sunlight feature having excellent color rendering(8wavelength).



[Continuous spectrum of UCD in 400~700 nm]

[Spectrum of natural sunlight]



※ Lux reading of UCD may be sometimes lower at the standard wavelength(555nm), but UCD actually provides brighter and more natural lighting as human eyes recognize.

Comparison of Performance Table

Item	Metal Halide	Electrodeless Induction	CDM	LED	UCD	Features of UCD
Appearance						Saving 60%-87% / Long Lifetimes
Retrofit Wattage	250W	200W	200W	180W	150W	• Power-saving : 60~80% & Low price • Spec-IP 65 & Light pole each-40m
Lifetime(Hour)	8,000	20,000	12,000	20,000	50,000	• Less maintenance cost with doubled lifetime
lm/W	68	70	80	80	120	• World's highest efficiency
Ra	65 (3Wavelengths)	70 (3Wavelengths)	80 (3Wavelengths)	80 (3Wavelengths)	94 (8Wavelengths)	• Excellent color rendering • Near sunlight characteristic
luminous flux degradation	Fast 20% a year	Fast 20% a year	Fast 20% a year	Fast 20% a year	Slow 35% after 14 years	• World's highest efficiency
Ballast or Converter	Magnetic Ballast	Electronic Ballast	Electronic Ballast	Electronic Ballast	Electronic Ballast	• Ballast lifetime-over 8 years at 50°C operation
Maintenance	Part replacement	Not compatible	Not compatible	Part cannot be replaced	Part replacement	• Minimized maintenance by having Standby bulb
Pole spacing	40M	25M	40M	25M	40M	• LED- light diffusion (glare) can not be installed closer than 20M as required - Installation Fee Increase
Turn ON time	10 minutes	Instant Turn ON	7 minutes	Instant Turn ON	Instant Turn ON	• Suitable for in/outdoor applications • Best lighting-street, industrial, plant, cultivation, fish luring, military sites, etc.
Operating Temperature	-20℃~40℃	-15℃~45℃	-20℃~50℃	-20℃~40℃	-35℃~65℃	• Universal applications and installations

Specification of UCD Lighting



1. Street Lighting
STA-100/150/250/315W
Casing Dimension
910 x 360 x 210 ø64 (mm)
Weight : 8 / 8.7 kg IP65



2. Street Lighting
STB-70/100/150/250W
Casing Dimension
800x 330x 215 ø73 (mm)
Weight : 7.2 / 8 Kg IP65



3. Street Lighting
STK-70/100/150/250W
Casing Dimension
650x 350x 210 ø60 (mm)
Weight : 7.5 Kg IP65



4. Security Lighting
SCA-50/70/100W
Casing Dimension
660 x 270 x 190 ø50 (mm)
Weight : 4.7 kg IP65



5. Security Lighting
SCC-50/70/100W
Casing Dimension
595 x 295 x 180 ø60 (mm)
Weight : 5.7 Kg IP65



6. Security Lighting
SCD-50/70/100W
Casing Dimension
558 x 329 x 157 ø60 (mm)
Weight : 5.5 Kg IP65



7. Flood Lighting
FDA-50/70W
FDC-70/100/150/250W
Casing Dimension
420x300x130(mm)/440x415x170(mm)
Weight : 4.5kg / 5.8kg IP65



8. Double Flood Lighting
FDE-300/500/630W
Casing Dimension
435 x 555 x 170 (mm)
Weight : 11.5 / 13 kg IP65



9. Spot Lighting(Low)
SPCA-70/100/150W
Casing Dimension
365 x 520 (mm) 14"
Weight : 3.5 kg



10. Spot Lighting
SP-70W
Casing Dimension
365 x 520 (mm) 14"
Weight : 2.5 kg



11. Spot Lighting(High)
SK/SKB-100/150, 250/315W
Casing Dimension
405 x 520 / 405 x 700 (mm) 16"
Weight : 4.2 / 4.7 kg



12. Spot Lighting(Indoor)
SPDA/C-70/100/150W
Casing Dimension
370 x 370 x 580 / 370 x 600 x 600(mm) 14"
Weight : 4.3 / 5 Kg



13. Spot Lighting-SPA(Outdoor)
SPA-70/100/150/250W
Casing Dimension :
420x565x245(mm) 16"
Weight : 70/150W – 4.6 / 5Kg



14. Spot Lighting(Outdoor)
SPOT/SPOT/SPOC-100/150W
Casing Dimension
370 x 330 x 580 / 370 X 580 X 670 (mm) 14"
Weight : 4.8 / 5.5 Kg



15. Spot Lighting(Outdoor)
SPB/SPC-150/250/315W
Casing Dimension
430 x 400 x 680 / 430 X 625 X 680 (mm) 16"
Weight : 6.3 / 7 Kg



16. Garden Lighting
GD-70/100/150W
Casing Dimension
720 x 455 ø80 (mm)
Weight : 9.5 kg



17. Tunnel & Parking lot Lighting
TNA-50/70W
TNK-70/100/150W
Casing Dimension
334x305x165 / 430x320x230 (mm)
Weight : 4.6 kg / 6.7 kg IP65



18. Tunnel & Indoor Lighting
TNB-70/100/150W
Casing Dimension
467x300x200 (mm)
Weight : 7.5 kg IP65



19. Industrial / Explosion Lighting
INDA-50/70W
EXA-70/100/150W
Casing Dimension
300 x 250 (mm) ø140 (mm)
642 x 505 x 310 (mm)
Weight : 3.2 / 13 kg IP65



20. Search Lighting
SLK-250/315W
Casing Dimension
401 x 302 x 562 (mm)
Weight : 11 kg IP65



21. Office/Room Lighting
RMOA/B-50/70/100/140W
Casing Dimension
680x315x90 / 1300x315x93 (mm)
Weight : 3.7 / 7 kg



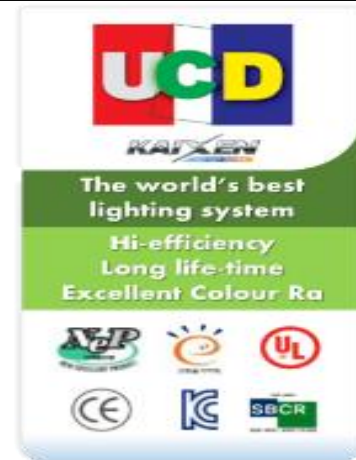
22. Horticulture Lighting (HL)
HL-70/100/150/250W
Casing Dimension :
535x250x160(mm)
Weight : 150W-1Kg / 250W-1.1Kg



23. Ceiling fixture Lighting
IR6EG/10EG-50/70, 100/150W
Casing Dimension (Glass)
180 x 190(6") / 290 x 330(10") (mm)
Weight : 1.3 Kg / 2.5 kg



24. Ceiling fixture Lighting
IR6E/8E-50/70, 70/100W
Casing Dimension (Non-Glass)
180 x 190(6") / 190 x 265(8") (mm)
Weight : 1.1 Kg / 1.3 kg



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