



WEGI company

# LED Flood Light Specification

Product : LED FLOOD LIGHT  
Data : 2015 . 6. 1.

## CUSTOMER:

checked By	checked By	checked By	checked By	Approval

Manufacture: WEGI,co.LTD

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## WEGI company

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WEGI company

# LED Flood Light Specification

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1-1

Product  
Characteristics

## Product Characteristics and Application

### 1) Characteristics of Products

- ☆ Capable of keeping low surface temperatures thanks to the unique heat sink
- ☆ Meeting the requirement of eco-friendly product for hazardous substance level
- ☆ Low maintenance and replacement cost owing to long life (50,000 HR)  
(Reference: Test report of LG INNOTEK 5152 Package (LEDMWH51) LM80)
- ☆ Possible to use anywhere thanks to the wide operating voltage ranges (AC100~240V, 50/60Hz)
- ☆ Capable of achieving high efficiency equivalent to that of metal haloid lamp, with relatively lower power consumption

### 2) Usage

- ☆ Outdoor places where lighting is used for long time
- ☆ Lighting for commercial buildings - Factory, Traditional market, Stadium, Gas station, etc.
- ☆ Sculpture that requires high-end lighting, Commercial signs in department stores, amusement park, etc.
- ☆ Places with high ceiling, where installation and replacement of lighting fixtures is difficult.

### 3) Examples of Installation



1-2

Product  
Characteristics

## Energy Saving

Metal haloid lamp



150W ⇒ 70W  
200W ⇒ 100W  
250W ⇒ 130W  
300W ⇒ 150W  
400W ⇒ 200W

LED Flood Light



Compared Product	Power Consumption	Annual Power Consumption	Power Rates	Energy Saving Rates
Metal Haloid	150W	657KW	65,700	46% Saved
LED Flood Light	70W	306.6KW	30,660	
Metal Haloid	200W	876KW	87,600	50% Saved
LED Flood Light	100W	438KW	43,800	
Metal Haloid	250W	1,095KW	109,500	51% Saved
LED Flood Light	130W	569.4KW	56,940	
Metal Haloid	300W	1,314KW	131,400	52% Saved
LED Flood Light	150W	677KW	67,700	
Metal Haloid	400W	1,752KW	175,200	50% Saved
LED Flood Light	200W	876KW	87,600	

※ Annual power consumption = Power consumption X 12 HR X 365 days (12 HR/day)

※ Power rates = Annual power consumption X KRW 100 (KRW 100/1KW)

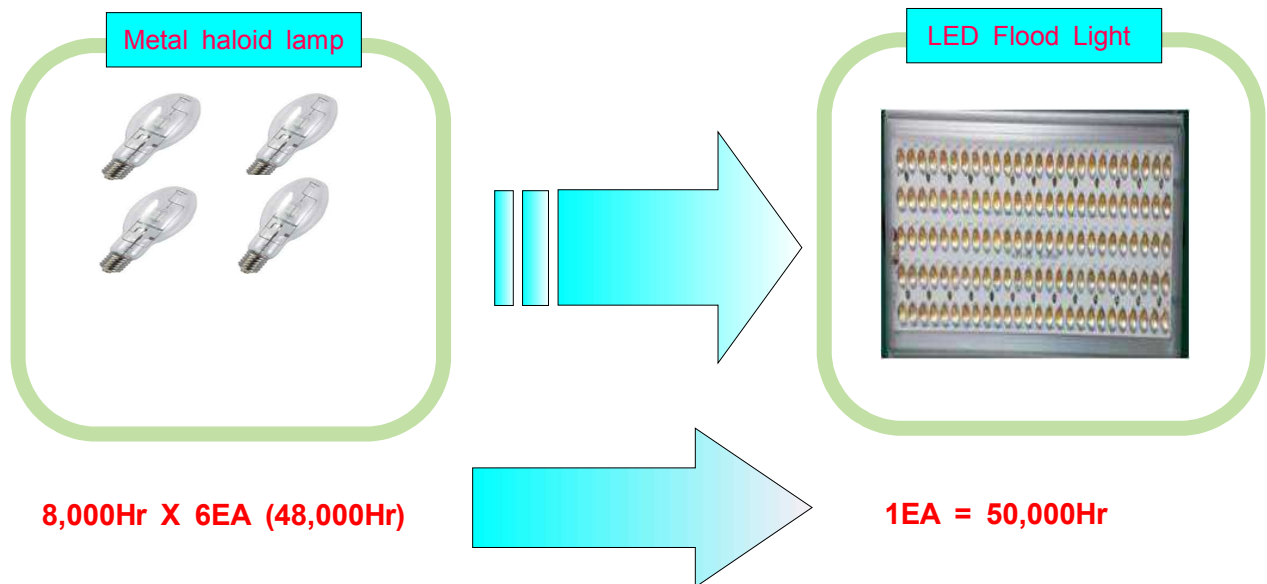
※ For 1 year

※ Above table referred to the test report of LG INNOTEK 5152 Package (LEDMWH51) LM80.

### 1-3

#### Product Characteristics

## LED Life time



## Low level of hazardous substances

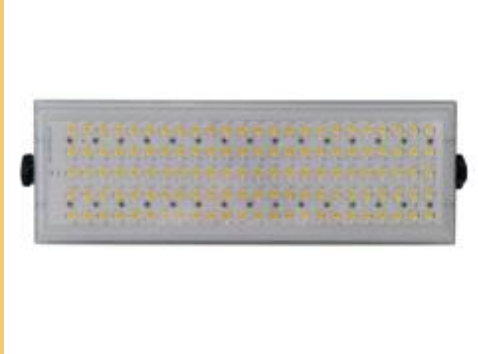
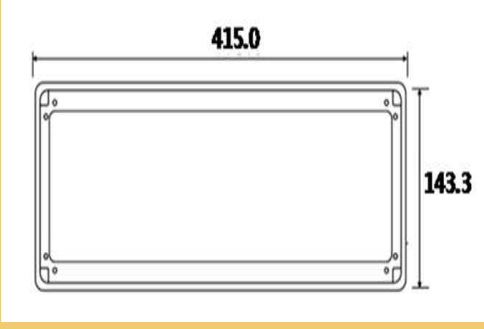
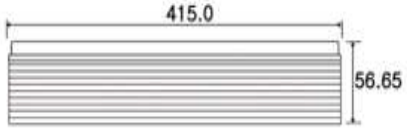

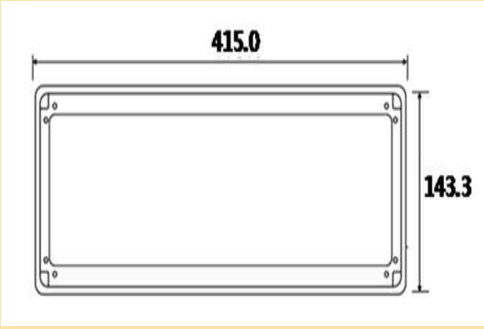
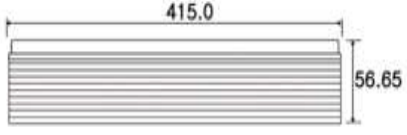


1. Satisfying the requirement of six hazardous substance levels
2. No harmful wavelength (UV rays) and harmless to vision and skin
3. Less greenhouse gas emission with less energy consumed

1-2

Product  
Specification

# LED Flood Light 70W

NO	W (certified)	Product Details	
1	70W KC	Picture	Drawing
			
			
2	70W KS, High efficiency	Picture	Drawing
			
			

1-2

Product  
Specification

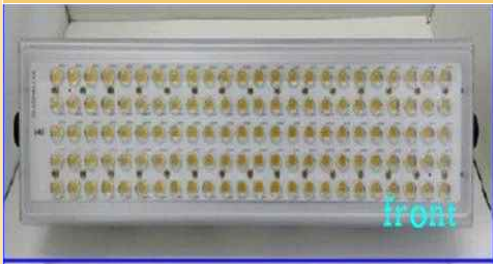
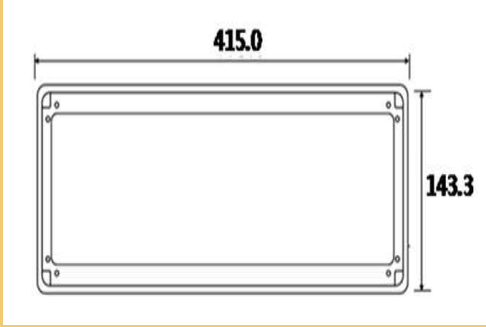
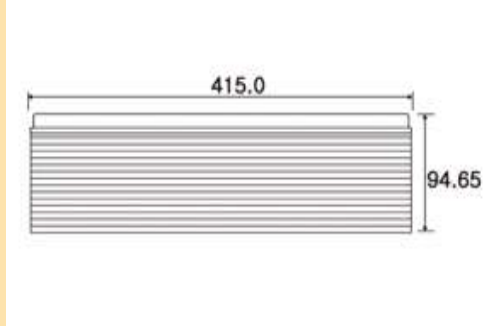

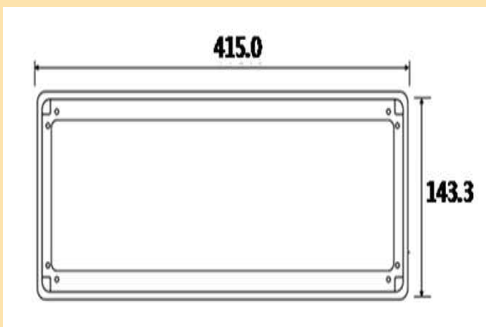

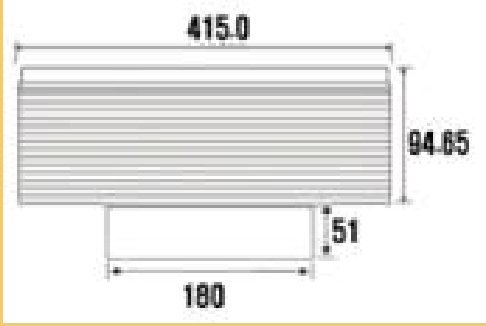
## 70W Flood Light

Item	KC				KS, High efficiency			Unit
Size	415*143.3*56.65				415*143.3*106.85			mm
Weight	2.6Kg				3.2Kg			kg
Input voltage	AC 100~220V							VAC
Rated frequency	50/60Hz							Hz
Rated power	70							W
Rated current	0.318							A
Power factor	≥0.93							-
Luminance efficiency	90				95			lm/W
Rated lumen	6,300				6,650			lm
Color temperature	3,000 / 5,700				3,000 / 5,700			K
Color rendition	≥75				≥80			-
Radiation angle	40	60	80	120	40	60	80	Deg
Illuminance 1m	16,626	7,484	4,286	2,005	1,7549	7,899	4,523	LUX
Illuminance 3m	1,847	831	476	223	1,949	877	502	LUX
Illuminance 5m	665	229	171	80	702	316	180	LUX
Illuminance 7m	339	152	87	41	358	161	92	LUX
Temperature range	-20 ~ 40							°C
Life time	50,000 (ta 25°C)							HR
IP grade					67			IP
Converter	Embedded				Outer mounted	Outer mounted		-

※ This specification may change when the performance of the product is improved

**1-2**  
**Product**  
**Specification**

# LED Flood Light 100W

NO	W (certified)	Product Details	
1	100W KC	Picture	Drawing
		 <p style="text-align: right; color: cyan;">front</p>	
			
2	100W KS, High efficiency	Picture	Drawing
			
		 <p style="text-align: right; color: cyan;">the back side</p>	

**1-2**  
Product  
Specification

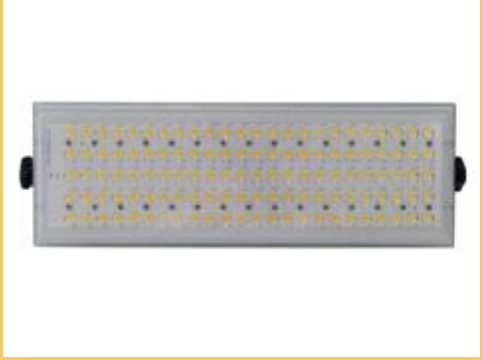
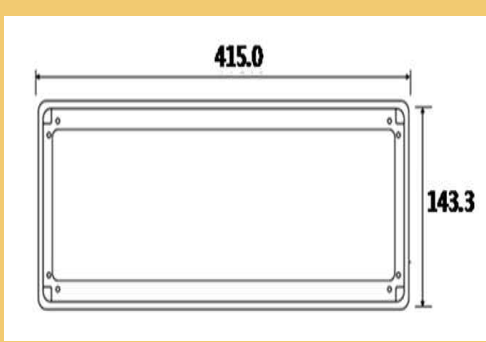
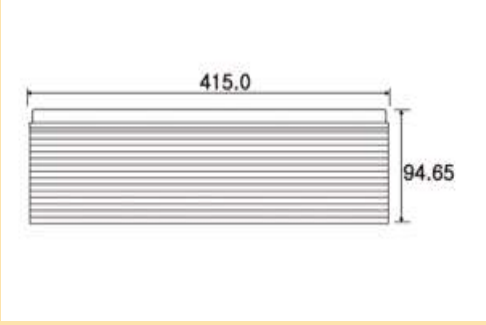

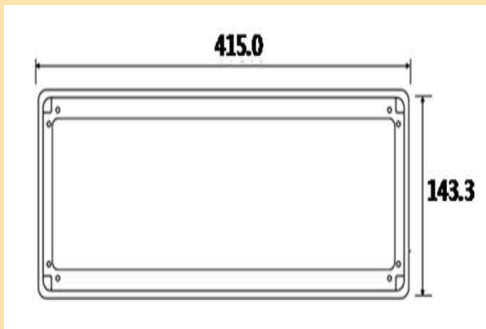

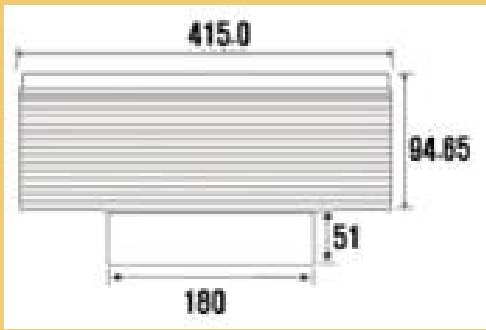
## 100W Flood Light

Item	KC				KS, High efficiency			Unit
Size	415*143.3*94.65				415*143.3*144.85			mm
Weight	4Kg				4.8Kg			kg
Input voltage	AC 100~220V							VAC
Rated frequency	50/60Hz							Hz
Rated power	100							W
Rated current	0.454							A
Power factor	≥0.93							-
Luminance efficiency	90				95			lm/W
Rated lumen	9,000				9,500			lm
Color temperature	3,000 / 5,700				3,000 / 5,700			K
Color rendition	≥75				≥80			-
Radiation angle	40	60	80	120	40	60	80	Deg
Illuminance 1m	23,751	10,691	6,122	2,864	25,071	11,285	6,462	LUX
Illuminance 3m	2,639	1,187	680	318	2,785	1,253	718	LUX
Illuminance 5m	950	427	244	114	1,002	451	258	LUX
Illuminance 7m	484	218	124	58	511	230	131	LUX
Temperature range	-20 ~ 40							°C
Life time	50,000 (ta 25°C)							HR
IP grade					67			IP
Converter	Embedded				Outer mounted	Outer mounted		-

\* This specification may change when the performance of the product is improved.

**1-2**  
**Product**  
**Specification**

# LED Flood Light 130W

NO	W (certified)	Product Details	
1	130W KC	Picture	Drawing
			
			
2	130W KS, High efficiency	Picture	Drawing
			
			

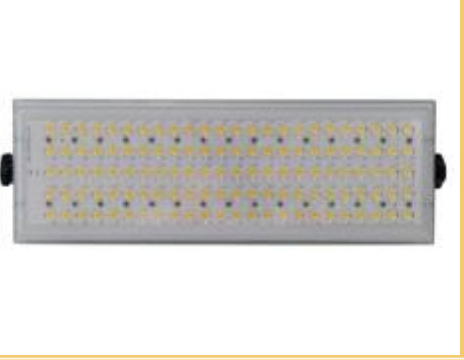
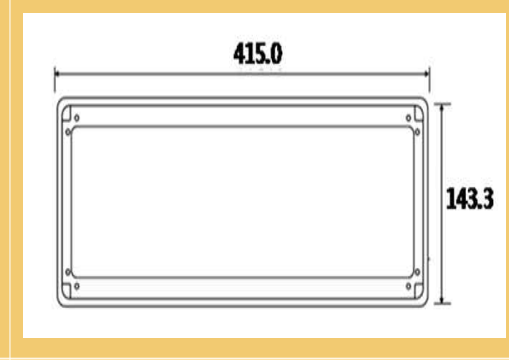
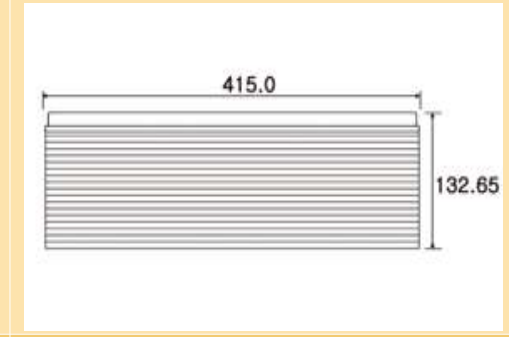
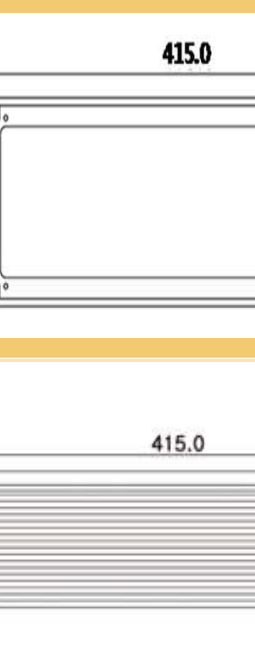

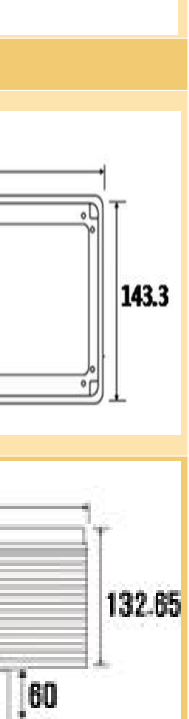
**1-2**  
Product  
Specification

## 130W Flood Light

Item	KC				KS, High efficiency			Unit
Size	415*143.3*94.65				415*143.3*144.85			mm
Weight	4.4Kg				5Kg			kg
Input voltage	AC 100~220V							VAC
Rated frequency	50/60Hz							Hz
Rated power	130							W
Rated current	0.59							A
Power factor	≥0.93							-
Luminance efficiency	90				95			lm/W
Rated lumen	11,700				12,350			lm
Color temperature	3,000 / 5,700				3,000 / 5,700			K
Color rendition	≥75				≥80			-
Radiation angle	40	60	80	120	40	60	80	Deg
Illuminance 1m	30,877	13,899	7,959	3,724	32,592	14,671	8,401	LUX
Illuminance 3m	3,430	1,544	884	413	3,621	1,630	933	LUX
Illuminance 5m	1,235	555	318	148	1,303	586	336	LUX
Illuminance 7m	630	283	162	76	665	299	171	LUX
Temperature range	-20 ~ 40							°C
Life time	50,000 (ta 25°C)							HR
IP grade					67			IP
Converter	Embedded				Outer mounted	Outer mounted		-

**1-2**  
**Product**  
**Specification**

# LED Flood Light 150W

NO	W (certified)	Product Details	
1	150W KC	Picture	Drawing
			
			
2	150W KS, High efficiency	Picture	Drawing
			
			

**1-2**  
Product  
Specification

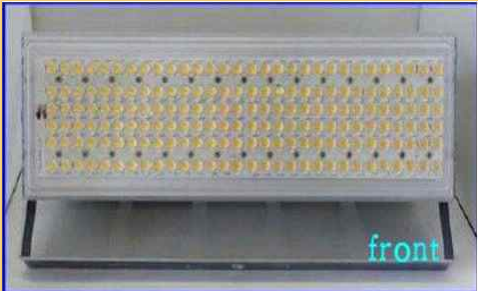
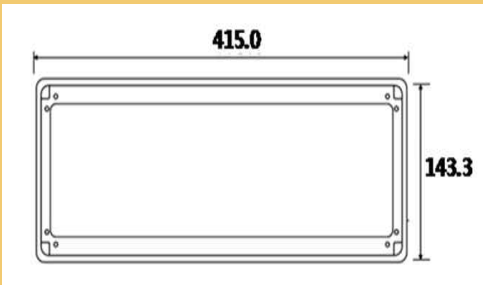

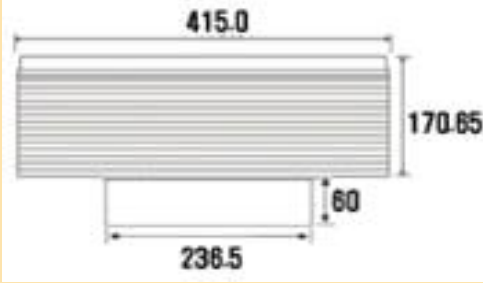
## 150W Flood Light

Item	KC				KS, High efficiency			Unit
Size	415*143.3*132.65				415*143.3*182.85			mm
Weight	5.1Kg				6.2Kg			kg
Input voltage	AC 100~220V							VAC
Rated frequency	50/60Hz							Hz
Rated power	150							W
Rated current	0.681							A
Power factor	≥0.93							-
Luminance efficiency	90				95			lm/W
Rated lumen	13,500				14,250			lm
Color temperature	3,000 / 5,700				3,000 / 5,700			K
Color rendition	≥75				≥80			-
Radiation angle	40	60	80	120	40	60	80	Deg
Illuminance 1m	35,627	16,037	49,18 <sub>3</sub>	4,297	37,606	16,928	9,693	LUX
Illuminance 3m	3,958	1,781	1,020	477	4,178	1,880	1,077	LUX
Illuminance 5m	1,425	641	367	171	1,504	677	387	LUX
Illuminance 7m	727	327	187	87	767	345	197	LUX
Temperature range	-20 ~ 40							°C
Life time	50,000 (ta 25°C)							HR
IP grade					67			IP
Converter	Embedded				Outer mounted	Outer mounted		-

※ This specification may change when the performance of the product is improved.

**1-2**  
**Product**  
**Specification**

# LED Flood Light 200W

NO	W (certified)	Product Details	
		Picture	Drawing
1	200W KC,KS, 고효율	 <p style="text-align: right; color: cyan;">front</p>	
		 <p style="text-align: right; color: cyan;">the back side</p>	

**1-2**  
Product  
Specification

## 200W Flood Light

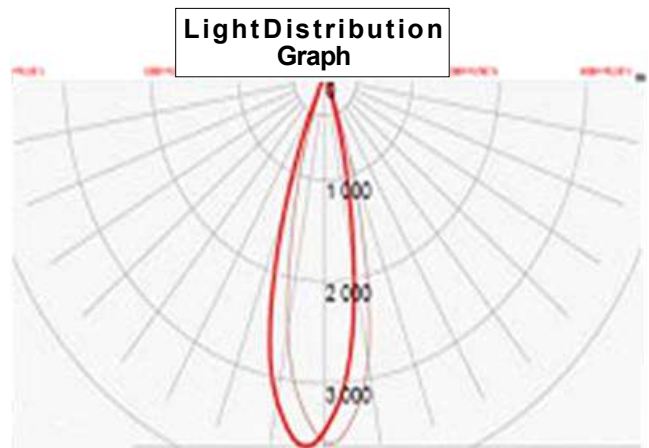
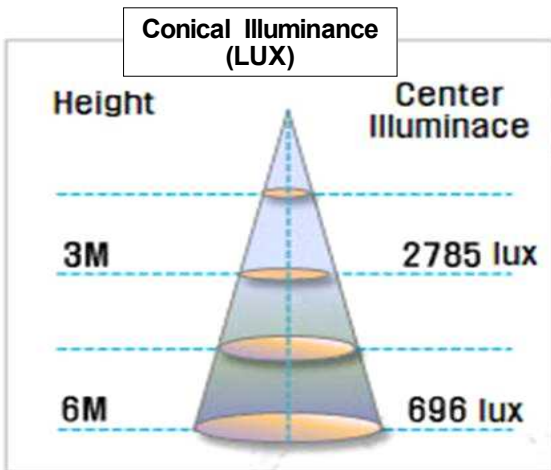
Item	KC				KS, High efficiency			Unit
Size	415*143.3*170.65				415*143.3*220.85			mm
Weight	7.2Kg				8.3Kg			kg
Input voltage	AC 100~220V							VAC
Rated frequency	50/60Hz							Hz
Rated power	200							W
Rated current	0.909							A
Power factor	≥0.93							-
Luminance efficiency	90				95			lm/W
Rated lumen	18,000				19,000			lm
Color temperature	3,000 / 5,700				3,000 / 5,700			K
Color rendition	≥75				≥80			-
Radiation angle	40	60	80	120	40	60	80	Deg
Illuminance 1m	47,503	21,383	12,245	5,729	50,142	22,571	12,925	LUX
Illuminance 3m	5,278	2,375	1,360	636	5,571	2,507	1,436	LUX
Illuminance 5m	1,900	855	489	229	2,005	902	517	LUX
Illuminance 7m	969	436	249	116	1,023	460	263	LUX
Temperature range	-20 ~ 40							°C
Life time	50,000 (ta 25°C)							HR
IP grade					67			IP
Converter	Embedded				Outer mounted	Outer mounted		-

\* This specification may change when the performance of the product is improved.

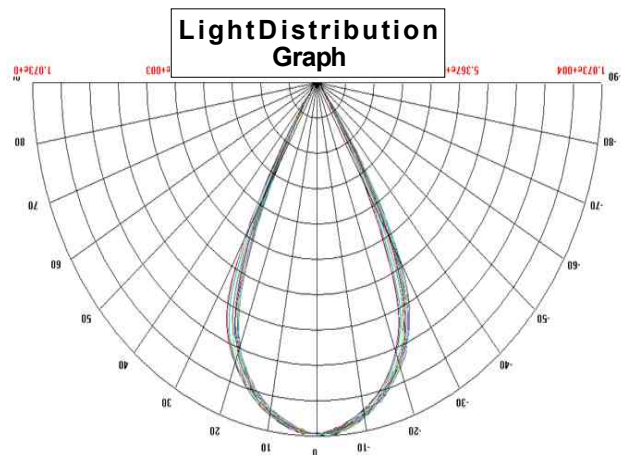
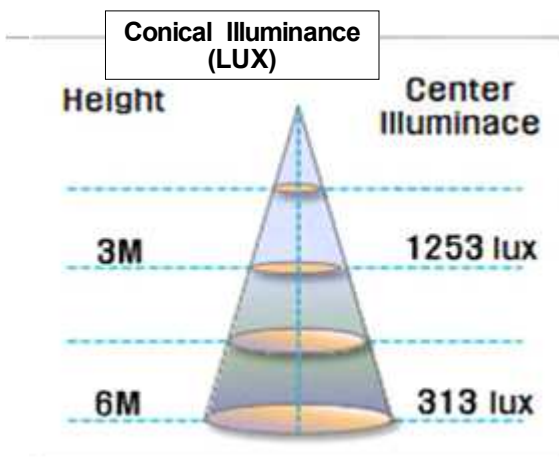
2  
Light  
Distribution  
Curve

Light Distribution Curve I

1. 40° [ex.100W]



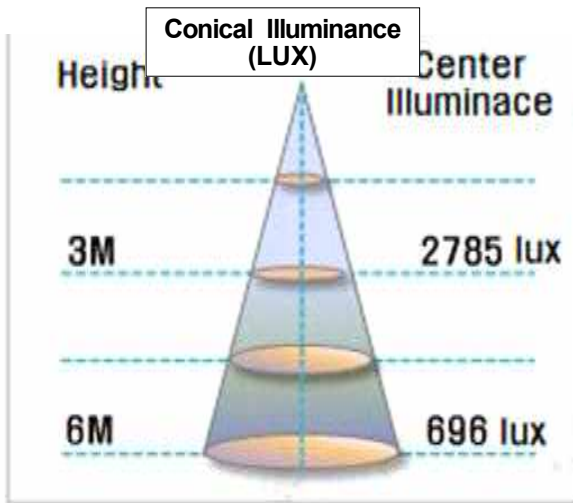
2. 60° [ex.100W]



2  
Light  
Distribution  
Curve

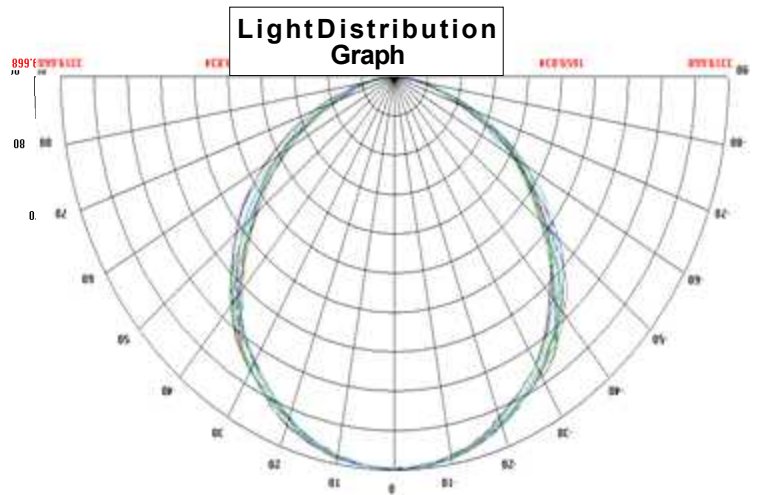
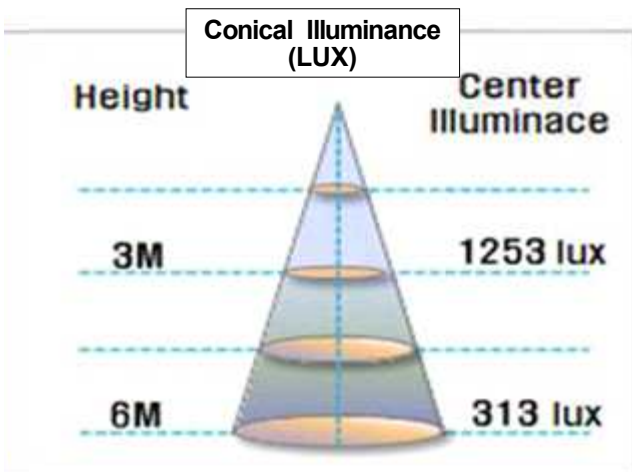
Light Distribution Curve II

3. 80° [ex.100W]



LightDistribution Graph

4. 120° [ex.100W]



## LED Floodlights Manual

### Safety Cautions (Please read this manual before using the product)

- ★Please read the "Safety Cautions" carefully before usage and follow the safety instructions correctly.
- ★This is an eco-friendly flood light with less harmful substances, less waste, and energy-saving properties.
- ★The life time of this product is 5,000 hours (See the test report of LG Innotek IM 80)

#### 2. Safety Warnings and Cautions

Warning	Caution
<p>Serious injury or human damage (fatality) may occur if the safety instructions are not followed.</p>	<p>Injuries or product damage may occur if the safety instructions are not followed.</p>
<p>1. Read this manual carefully before installing the product.</p> <p>2. Do not break down or make alterations to the product arbitrarily. Electric shocks may occur.</p> <p>3. Ground the product first before installation. Otherwise, electric shock accident may occur.</p> <p>4. Power down the product immediately and request repair service if smoke or strange smell is detected during the operation of the product. Otherwise, fire and/or electric shock may occur.</p> <p>5. Electrical work must be done by a qualified engineer in accordance with the necessary technical standard, outdoor electric wiring standard and regulations, and installation manual. Insufficient electric capacity or inappropriate electric work may lead to fire or electric shocks.</p> <p>6. Contact us immediately if the lamp is turned down on its own. Do not break down the product; it may lead to electric shocks and/or malfunction of the product.</p> <p>7. Do not use the LED flood lights other than its original purpose. It may lead to electric shocks and/or fire.</p>	<p>1. When overcurrent is detected in the building to which the product is installed, install surge protector first and then install the product (Otherwise, damage may occur to the product.).</p> <p>2. Please note in advance that some differences may exist in illuminating colors and brightness of the product due to distribution of LED.</p> <p>3. The installation of the product needs to be done by at least two engineers. If the product falls during the installation process, serious impact might be caused to the product, resulting in damages, which might not be subject to maintenance service.</p> <p>4. Do not directly see the lamp when it is turned on. It might lead to visual impairment.</p> <p>5. Do not use flammable substances such as alcohol, benzene, or acetone when cleaning the product.</p> <p>6. Use the screws mounted in the product when reconnecting the handle to the product after disconnecting it for separate installation.</p> <p>※ Serious flaws might occur in the product as the side cover can be damaged if other-than-originally-mounted screws are used.</p>

#### 3. Maintenance Service



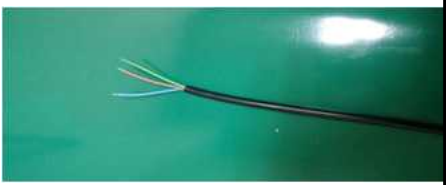
Repair services or free exchange of a product are provided for a period of 2 years from purchase date if malfunctions are occurred to the product.

A. Paid Repair Service	B. Free Repair Service
<p>1) Wrong connections of the poles</p> <p>2) Surge-incurred problem</p> <p>3) Damage by installer negligence</p> <p>4) Natural disasters (Fire, Damage from sea wind, Gas damage, Earthquake, Damage from storm and flood, Thunder stroke, etc.)</p>	<p>1) Defective product</p> <p>2) Damage during delivery</p> <p>3) Other cases defined by the company</p>






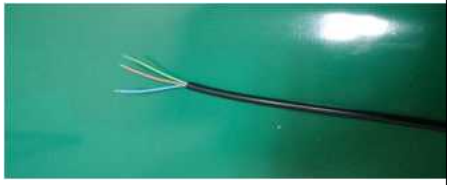

# 4

## Installation

### A. How to attach the product

		
① Check if the power is off.	② Fix the cradle on where the product is attached with screws through the holes on the cradle.	③ Ground the product to the green grounding wire, and connect other wires to the A/C wire.
④ Turn the power on, and check if the power light is lit.		

### B. Jig-removal installation

			
① Check if the power is off.	② If the product is too heavy to install, disconnect the cradle from the product by loosening the knob screws on the side.	③ Fix the cradle on where the product is attached with screws through the holes on the cradle..	
			
④ Re-assemble the cradle and product.	⑤ Ground the product to the green grounding wire, and connect other wires to the A/C wire.	⑥ For angle adjustment for dimming range changes, adjust the cradle to the required place and fix it using screws.	
⑦ Turn the power on, and check if the power light is lit.			

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※ Source data for life time of the products



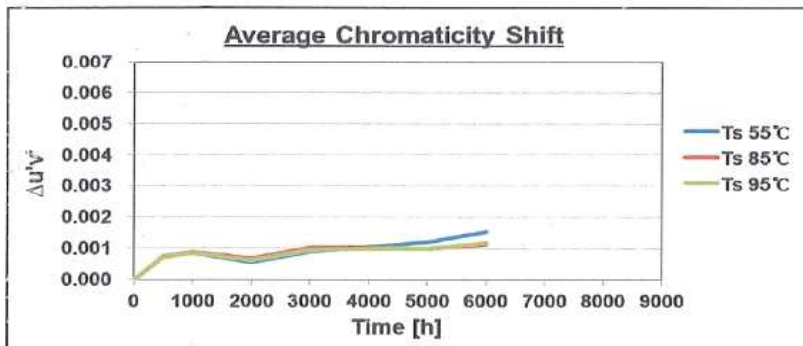
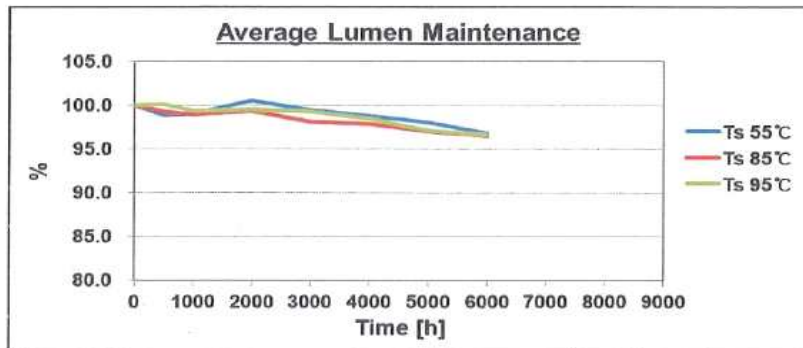
1493 Naepo-ri, Munsan-eup, Paju-city,  
Gyeonggi-do, Republic of Korea  
Tel: +82-02-3777-1114  
Fax: +82-02-3777-0082  
<http://www.lginnotek.co.kr>

Certificate No :  
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6. Charts



Test Condition 1 - 55°C Case Temp		Test Condition 2 - 85°C Case Temp		Test Condition 3 - 95°C Case Temp	
Sample size	28	Sample size	28	Sample size	28
Number of failures	0	Number of failures	0	Number of failures	0
DUT drive current used in the test (mA)	350	DUT drive current used in the test (mA)	350	DUT drive current used in the test (mA)	350
Test duration (hours)	6,000	Test duration (hours)	6,000	Test duration (hours)	6,000
Test duration used for projection (hour to hour)	1,000 - 6,000	Test duration used for projection (hour to hour)	1,000 - 6,000	Test duration used for projection (hour to hour)	1,000 - 6,000
Tested case temperature (°C)	55	Tested case temperature (°C)	85	Tested case temperature (°C)	95
α	5.613E-06	α	5.655E-06	α	6.310E-06
B	1.007	B	0.999	B	1.006
Calculated L70(6k) (hours)	65,000	Calculated L70(6k) (hours)	63,000	Calculated L70(6k) (hours)	57,000
Reported L70(6k) (hours)	>36000	Reported L70(6k) (hours)	>36000	Reported L70(6k) (hours)	>36000

LAB-0300-05(01)

접수번호(Order No.) : EKC2014-7585



# 전기용품안전인증서 Electrical Appliances Safety Certificate

안전인증번호 : JE11017-14003A  
(Certificate No.)

제조업자명 : (주)위지아이  
(Manufacturer)

대표자명 : 최종영  
(President)

제조공장의소재지 : 광주 북구 첨단과기로 333,306(대촌동,벤처지원센터)  
(Factory Address)

제품명 : 일반조명기구(투광조명기구)  
(Product) (Luminaires for floodlights)

기본모델명 : WGL100SWPS-EC-GW  
(Basic Model)

정격 : 220 V~, 60 Hz, 100 W (LED 1.3 W × 120 EA)  
(Rating)

파생모델명 : WGL70SWPS-EC-GW  
(Series Model)

적용기준 : KC60598-1(2014-09), KC60598-2-5(2014-09)  
(Standard)

「전기용품안전관리법 시행규칙」 제6조 제2항의 규정에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.

We Issue Electrical Appliances Safety Certification as above product by Article 6 Section 2 of the Electrical Appliances Safety Control Enforcement Regulation.

2015년 01월 20일  
year month day



※ 이 인증서는 「전기용품안전관리법」에 따른 전기용품안전성 확인에 한정된 것이며 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류  
(Annex)

1. 안전관리부품 및 재질목록(List of Critical components)
2. 기본모델·파생모델의 내용(General Descriptions of Certified Products)
3. 전기용품안전인증의 변경 현황(Status of Certificate Revisions)



접수번호(Order No.) : EKC2014-7552



# 전기용품안전인증서 Electrical Appliances Safety Certificate

안전인증번호 : JE11017-14002A  
(Certificate No.)

제조업자명 : (주)위지아이  
(Manufacturer)

대표자명 : 최중영  
(President)

제조공장의소재지 : 광주 북구 첨단과기로 333,306(대촌동,벤처지원센터)  
(Factory Address)

제품명 : 일반조명기구(투광조명기구)  
(Product) (Luminaires for floodlights)

기본모델명 : WGL200SWPS-EC-GW  
(Basic Model)

정격 : 220 V~, 60 Hz, 200 W (LED 1.3 W × 180 EA)  
(Rating)

파생모델명 : WGL120SWPS-EC-GW, WGL130SWPS-EC-GW, WGL150SWPS-EC-GW  
(Series Model)

적용기준 : KC60598-1(2014-09), KC60598-2-5(2014-09)  
(Standard)

『전기용품안전관리법 시행규칙』 제6조 제2항의 규정에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.

We Issue Electrical Appliances Safety Certification as above product by Article 6 Section 2 of the Electrical Appliances Safety Control Enforcement Regulation.

2015년 02월 02일  
year month day



※ 이 인증서는 『전기용품안전관리법』에 따른 전기용품안전성 확인에 한정된 것이며 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당법률에 따라 추가로 인증·허가 등을 받아야 합니다.

- 첨부서류 (Annex)
1. 안전관리부품 및 재질목록(List of Critical components)
  2. 기본모델·파생모델의 내용(General Descriptions of Certified Products)
  3. 전기용품안전인증의 변경 현황(Status of Certificate Revisions)



※ 안전인증 시의 조건 : 동 제품의 생산 시 자체검사를 실시하고 안전인증 시 등록된 부품누락 및 임의 변경하지 말 것.





고효율기자재

# 고효율에너지기자재 인증서

① 업체명(법인등록번호)

(주) 위지아이 (200111-0273303)

② 사무소 소재지

광주광역시 북구 대촌동 광주테크노파크 958-3번지 벤처지원센터 306호(첨단과기로 333, 벤처지원센터 306호)

③ 공장소재지

광주광역시 북구 대촌동 광주테크노파크 958-3번지 벤처지원센터 306호(첨단과기로 333, 벤처지원센터 306호)

④ 인증기자재

제품의 특징

- 1. 초기광속 : 9,893 (lm)      2. 광원색 : 5,602 K
- 3. 연색성 : 83.4              4. 역률 : 0.96
- 5. 고조파함유율 : 7.7%
- 6. 광원 및 패키지(LG Innotek, LEMWH51X80HZ)
- 7. 컨버터 : 프라임 피에스텍 KS(제12-1321호)

기자재명 : LED투광등기구  
 형식 : LED투광등기구  
 모델명 : WGL100SWPS-EC-GW  
 용량 : 100W  
 효율 : 광효율 104.6 (lm/W)

「에너지이용 합리화법」 제22조제4항에 따라 고효율에너지기자재임을 인증합니다.

2015년 5월 29일

에너지관리공단 이 사 장



비고 : 이 인증서의 유효기간은 인증서 발급일로부터 3년이므로 유효기간 연장을 희망할 경우에는 유효기간 만료일 90일전부터 연장신청을 하여야 합니다.

<본 인증서는 한국광기술원 KOPTI-TL14-0551(2015.03.12)의 시험성적에 근거함>



고효율기자재

# 고효율에너지기자재 인증서

① 업체명(법인등록번호)

(주) 위지아이 (200111-0273303)

② 사무소 소재지

광주광역시 북구 대촌동 광주테크노파크 958-3번지 벤처지원센터 306호(첨단과기로 333, 벤처지원센터 306호)

③ 공장소재지

광주광역시 북구 대촌동 광주테크노파크 958-3번지 벤처지원센터 306호(첨단과기로 333, 벤처지원센터 306호)

④ 인증기자재

제품의 특징

- 1. 초기광속 : 19,180 (lm)      2. 광원색 : 5,554 K
- 3. 연색성 : 85.4                4. 역률 : 0.96
- 5. 고조파함유율 : 15.2%
- 6. 광원 및 패키지(LG Innotek, LEMWH51X80HZ)
- 7. 컨버터 : 프라임 피에스텍 KS(제12-1321호)

기자재명 : LED투광등기구  
 형식 : LED투광등기구  
 모델명 : WGL200SWPS-EC-GW  
 용량 : 200W  
 효율 : 광효율 95.6 (lm/W)

「에너지이용 합리화법」 제22조제4항에 따라 고효율에너지기자재임을 인증합니다.

2015년 5월 29일

에너지관리공단 이 사 장



비고 : 이 인증서의 유효기간은 인증서 발급일로부터 3년이므로 유효기간 연장을 희망할 경우에는 유효기간 만료일 90일전부터 연장신청을 하여야 합니다.

<본 인증서는 한국광기술원 KOPTI-TL14-0552(2015.03.12)의 시험성적에 근거함>