songhyun GlowOne

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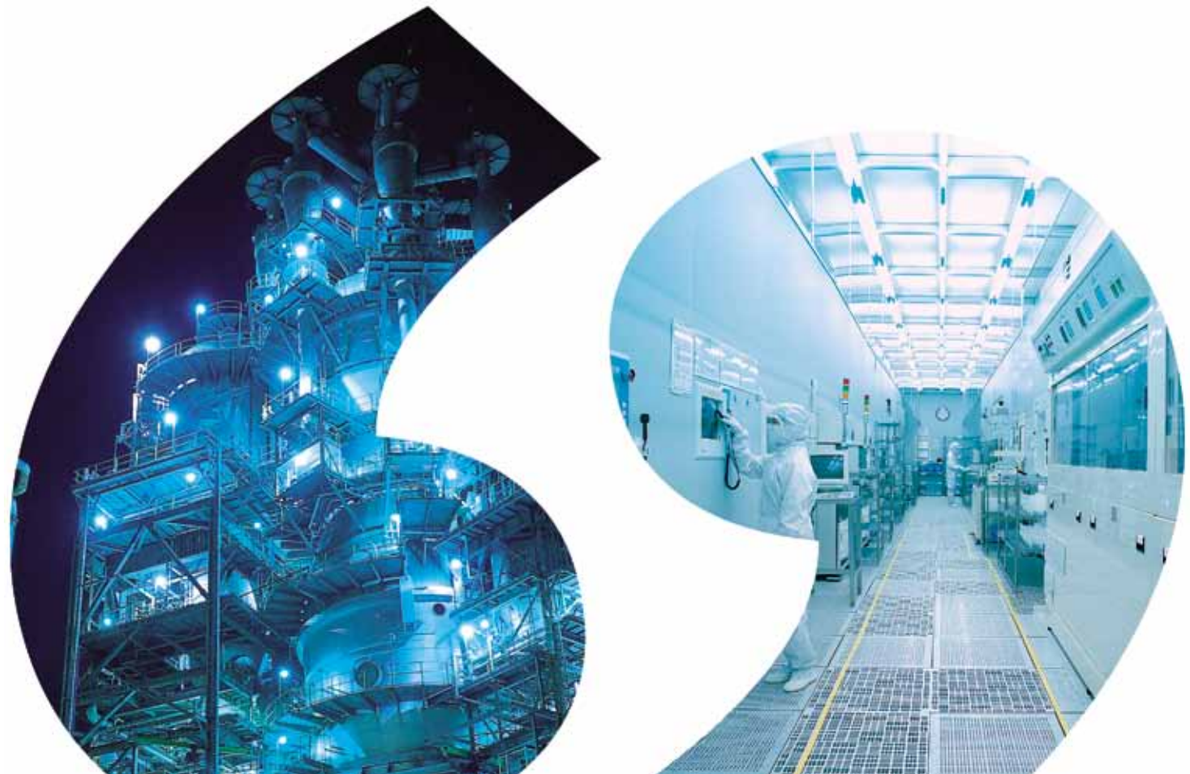
LIGHTING CATALOGUE (EN)

ENGLISH

songhyun GlowOne

LIGHTING CATALOGUE

Vol. 01



songhyun
GlowOne
A LIGHTING COMPANY

Saving World Energy with a Global LED lighting professional, “GlowOne”

GlowOne is a lighting professional company producing and distributing LED lighting products those are environment-friendly and, for the ECO-friendly future and Green Growth, advanced energy saving technologies are applied to.

GlowOne’s industrial lighting techniques can make the LED lights more reliable even under extreme conditions (high temperature, high humidity, dust and vibration) and also can provide all kinds of the LED Lighting products. The GlowOne’s LED Lighting products are now illuminating all over the places (indoors, outdoors, industrial sites, etc.) in the world.

History

GlowOne leads the green revolution of light based on its reliable technology

With the unity of POSCO LED and SKC Lighting, GlowOne will be growing into a representative global LED lighting total-solution company in Korea through convergence of members and maximization of synergy.

songhyun GlowOne

2017. 10 Acquisition SKC Lighting
08 Expansion TG-POSCO Production Line
07 Songhyun Techno Center Opened (Factory re-located in Dongtan City)
03 Launched NBL115 / 160

POSCO LED

2016 07 Changed its name from 'POSCO LED' to 'GlowOne'
04 Newly launched as a group-wide effort by Songhyun (POSCO LED → Songhyun Group)

2015 02 The company moved to Giheung-gu, Yongin-si, Gyeonggi-do

2014 10 Received the grand prize in the LED/OLED lighting Design contest exhibit hosted by LED FORUM (LE400)

2013 12 Establishing TG POSCO LED (a joint venture in China)
10 AC LED Entered all 3 Big box retailers
06 Opening the showcase in Philadelphia, US.
04 The acquisition of ISO 14001

2012 09 Received AIDA Good Design Award (Bay Light)
09 Received iF Design Award 2013 (Bay Light)
09 Launching AC LED Lamp
09 Received Korea Good Design (Bay Light)
06 Participation in LED EXPO Exhibition 2012
04 Opening the showcase in Frankfurt, Germany
03 Received Red Dot Design Award (Linear Light)

2011 12 Received US Good Design (Bay Light, Street Light)
11 Received Korean Good Design (Street Light)
10 Received iF Design Award 2012 (Street Light)
03 Initial Production of Bay Light
02 Pohang Plant Establishment

2010 12 The acquisition of KS license-Panel light
09 POSCO LED Establishment

SKC

2016 • Newly Launched by SK Subsidiary

2015 • Won the Orders of Kia Motors Project in Mexico
• Acquired UL / DLC certification and enter to American market
• Supplied LED Lightings, M14, to SK Hynix
• Supplied LED Lightings to SK E&S Boryeong LNG Terminal

2014 • Participated in L+B 2014 Frankfurt
• Supplied LED High-bay to NEC Lighting, Japan

2013 • S-Lamp Sensor Lighting GD Product Selection
• Obtained CE / ENEC certification and entered the EU market

2012 • Acquired ISO certification
• Automation of LED Lighting Production
• Started to supply SKT LED Channel Sign module
• Started to supply LED Lightings for SK gas station

2011 • SKC Lighting Establishment
• Started to supply LED Lightings to Koizumi Lighting , Japan

Business Area

A global company specializing in LED lighting with a strong commitment to sustainability

GlowOne Lighting is a revolutionary, low carbon, green growth technology that allows for improvements in living and working environments as well as sustainable living.

A global company specializing in LED lighting

GlowOne plays a pivotal role in Songhyun's green growth business, a new growth engine for the global steelmaker, which has been selected as a global sustainability-leading company for nine consecutive years on the Dow Jones Sustainability Indices. Based on the leading capabilities of Songhyun in materials technology as well as the technical capabilities of POSTECH, RIST and Seoul Semiconductors, GlowOne manufactures highly reliable lighting products, boasting the globally competitive capabilities in industrial LED lighting technology.

A global company specializing in industrial lighting

Our unique technology for industrial lighting and exclusive test beds backed by various industrial facilities at Songhyun have enabled us to develop and manufacture highly reliable lighting products which maintain outstanding performance even in the most extreme conditions (high temperatures and humidity, strong dust and vibration conditions) for lighting applications. With our LED lighting adopted in energy intensive industrial sites around the world, we contribute to improving productivity through reduced downtime, energy savings, and reduced carbon emissions.

A provider of LED lighting solutions

GlowOne focuses on the development, production and sales of a full line of LED lighting products that support various applications in industrial, business, commercial, public and residential facilities. Also, we offer the best total solution meeting various conditions and needs of each client, through smart lighting design and installation consultancy services, based on the convergence of lighting technology and ICT expertise. Controlling colors and lighting hours with the LED smart lighting control system helps to save energy over 30% energy compared to simple applications of LED lighting.

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songhyun GlowOne

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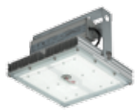
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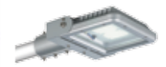
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01

INDUSTRIAL

LED HIGH-BAY LUMINAIRE

LED EXPLOSION-PROOF LUMINAIRE

LED NON-SPARKING LUMINAIRE

LED FLAME-PROOF LUMINAIRE

BIO CLEAN ROOM LUMINAIRE

LED CLEAN ROOM LUMINAIRE

LED TEAR DROP LUMINAIRE

LED CANOPY LUMINAI RE

LED High-bay Luminaire Series

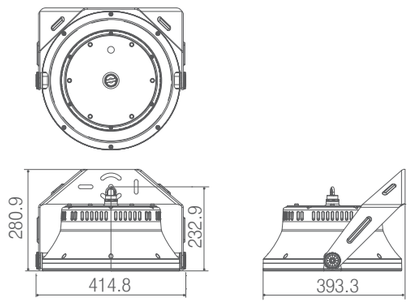
FBL 350W

- Housing : Aluminum diecasting
- Cover : Tempered glass
- Power Consumption : 350W
- Color Temperature : 5700K
- Beam Angle : 45°
- Power Factor : 〉0.90
- Operating Temperature : −30℃ ~ 60℃
- Storage Temperature : −40℃ ~ 80℃
- 40,000 hours (25℃)
- IP66

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra		V		T	C
GHBWMC53C140A	350	45,500	130	5700	75	45	220	10.5	Bracket	KCC, KS, KE

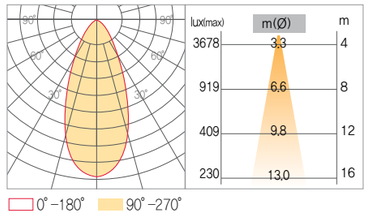
Product Specification (mm)

350W



Photometric Data / Cone lux level

350W, 5700K, 45°



Application Site

Factories, Industrial sites, The fiercest environments (High temperature/Strong dust) etc.

※Some of the above specifications may change to improve performance

LED High-bay Luminaire Series

FBL 88W, 176W

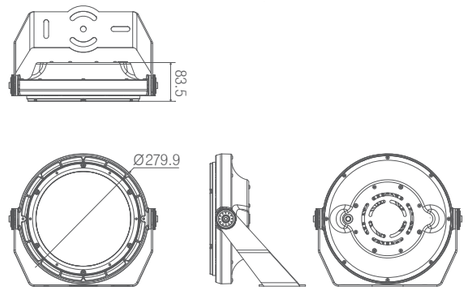
- Housing : Aluminum diecasting
- Cover : Tempered glass
- Power Consumption : 88W / 176W
- Color Temperature : 5700K
- Beam Angle : 35° / 45° / 60°
- Power Factor : ⟩0.90
- Operating Temperature : −30℃ ~ 60℃
- Storage Temperature : −40℃ ~ 80℃
- 40,000 hours (25℃)
- IP66

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∠	V	kg	T	C
GHBxx903C1xxA	88	11,440	130	5700	75	35, 45, 60	220	4.1	Bracket Chain Pipe	KCC, KS, KE
GHBxxA83C1xxA	176	22,880	130	5700	75	35, 45, 60	220	5.3		KCC, KS, KE

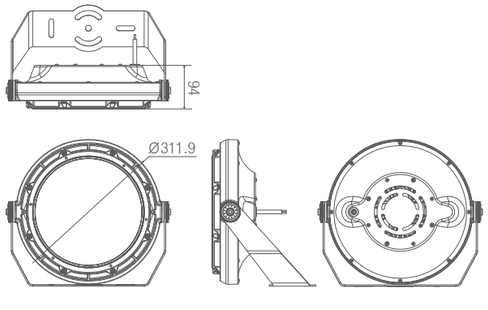
GHB xx xx 3C1 xx A
- 30:35°, 40:45°, 60:60°
- 90:88W , A8:176W
- WM:Wall Mount, CH:Chain Pendant, PP:Pipe Pendant Type

Product Specification (mm)

88W

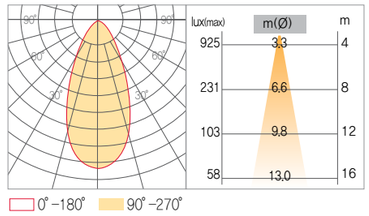


176W

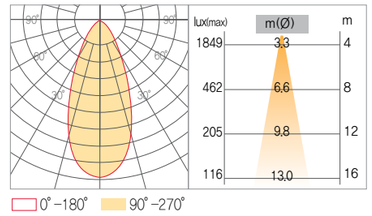


Photometric Data / Cone lux level

88W, 5700K, 45°



176W, 5700K, 45°



Application Site

Factories, Industrial sites, The fiercest environments (High temperature/Strong dust) etc.

※Some of the above specifications may change to improve performance

LED High-bay Luminaire Series

NBL 50W, 70W, 97W

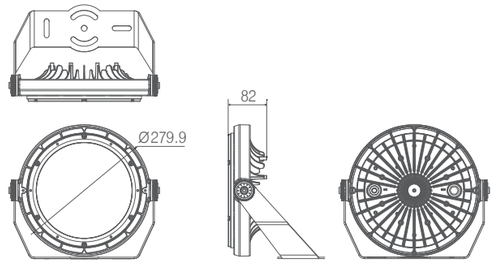
- Housing : Aluminum diecasting
- Cover : Tempered glass
- Power Consumption : 50W / 70W / 97W
- Color Temperature : 5700K
- Beam Angle : 35° / 45° / 60°
- Power Factor : ⟩0.90
- Operating Temperature : −30℃ ~ 50℃
- Storage Temperature : −40℃ ~ 80℃
- 40,000 hours (25℃)
- IP66

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∧	V	kg	T	C
GHBxx503C1xxA	50	6,250	125	5700	75	35, 45, 60	220	3.5	Bracket Chain Pipe	KCC, KC, KE
GHBxx703C1xxA	70	9,100	130	5700	75	35, 45, 60	220	3.5		KCC, KC, KE
GHBxxA03C1xxA	97	12,610	130	5700	75	35, 45, 60	220	4.0		KCC, KS, KE

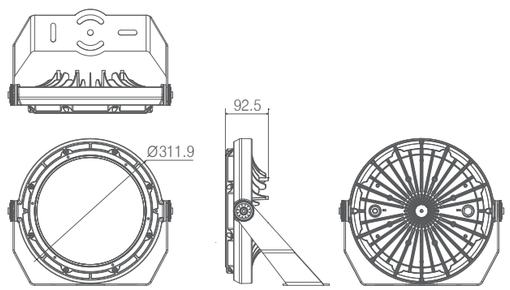
GHB xx xx 3C1 xx A
- 30:35°, 40:45°, 60:60°
- 50:50W, 70:70W, A0:97W
- WM:Wall Mount, CH:Chain Pendant, PP:Pipe Pendant Type

Product Specification (mm)

50W, 70W

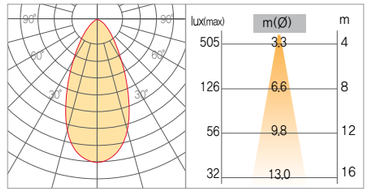


97W

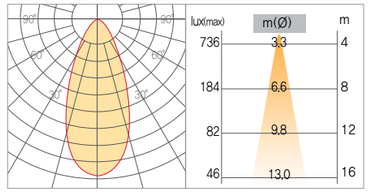


Photometric Data / Cone lux level

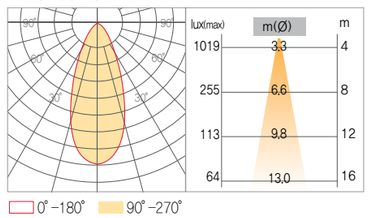
50W, 5700K, 45°



70W, 5700K, 45°



97W, 5700K, 45°



Application Site

Factories, Industrial sites, The fiercest environments (High temperature/Strong dust) etc.

※Some of the above specifications may change to improve performance

LED High-bay Luminaire Series

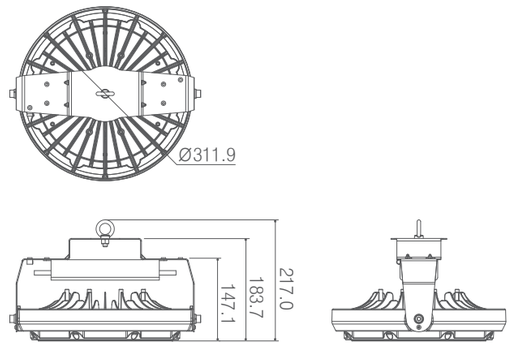
NBL 150W

- Housing : Aluminum diecasting
- Cover : Tempered glass
- Power Consumption : 150W
- Color Temperature : 5700K
- Beam Angle : 60° / 115°
- Power Factor :)0.90
- Operating Temperature : -30℃ ~ 50℃
- Storage Temperature : -40℃ ~ 80℃
- 40,000 hours (25℃)
- IP66

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∧	V	kg	T	C
GHBCHA53C1600	150	18,000	120	5700	75	60	220	5	Chain	KCC, KC, KE
GHBCHA53C1B00	150	18,000	120	5700	75	115	220	5	Chain	KCC, KC, KE

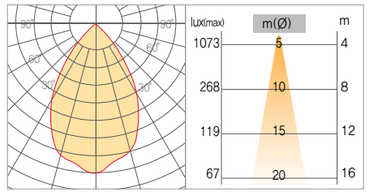
Product Specification (mm)

150W

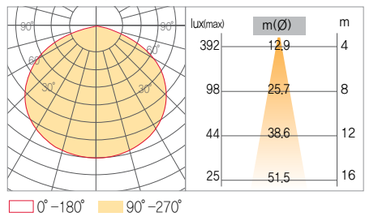


Photometric Data / Cone lux level

150W, 5700K, 60°



150W, 5700K, 115°



Application Site

Factories, Industrial sites, The fiercest environments (High temperature/Strong dust) etc.

※Some of the above specifications may change to improve performance

LED High-bay Luminaire Series

CHBL 100W, 150W

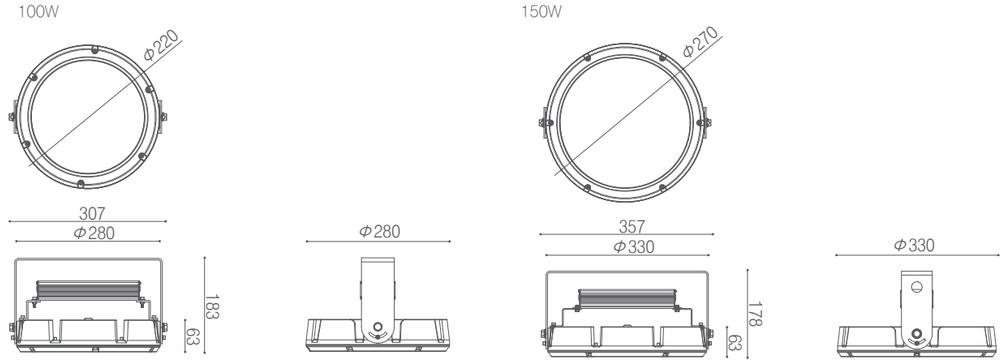
- Housing : Aluminum diecasting
- Cover : Tempered glass
- Power Consumption : 100W / 150W
- Color Temperature : 5000K
- Beam Angle : 20° / 60° / 110°
- Operating Temperature : −20℃ ~ 50℃
- Storage Temperature : −30℃ ~ 80℃
- 50,000 hours (30℃)
- IP66

Bracket Type

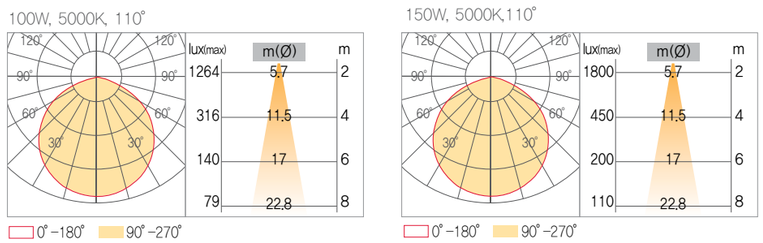
Chain Type

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∧	V	kg	T	C
SHBBRA04N3A05	100	14,000	140	5000	85	110	100~240	5.6	Bracket Chain	KCC, KC, KE, PSE
SLCHBI150EF-020VCO	150	15,750	105	5000	75	20	100~240	7.6		KC
SLCHBI150EF-060VCO	150	15,900	106	5000	75	60	100~240	7.6		KC
TBD	150	21,000	140	5000	85	110	100~240	7.4		KCC, KC, KE, PSE

Product Specification (mm)



Photometric Data / Cone lux level



Application Site

Factories, Industrial sites, Sports facilities etc.

※Some of the above specifications may change to improve performance

LED High-bay Luminaire Series

HBL 80W, 100W, 150W

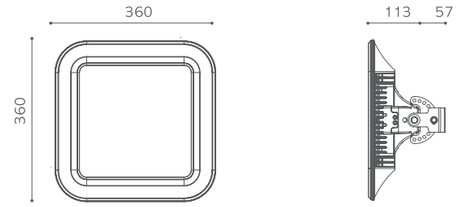
- Housing : Aluminum diecasting
- Cover : Tempered glass (Clear / Milky)
- Power Consumption : 80W /100W / 150W
- Color Temperature : 5000K
- Beam Angle : 60° / 110°
- Power Factor : ⟩0.90
- Operating Temperature : −25℃ ~ 50℃
- Storage Temperature : −25℃ ~ 80℃
- 50,000 hours (30℃)
- IP66

Bracket Type

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∧	V	kg	T	C
SLHB080-060VC1	80	7,040	88	5000	75	60	100~240	7	Bracket	KS
SLHB080-110VC3	80	9,040	113	5000	85	110	100~240	7		KS
TBD	100	14,000	140	5000	85	110	100~240	5.6		KCC, KC, KS, KE
SHBBRA04N3A05	150	21,000	140	5000	85	110	100~240	7.4		PSE

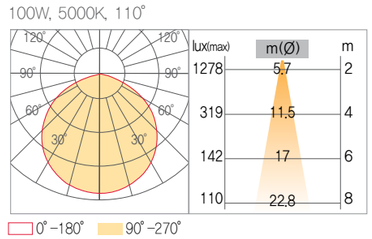
Product Specification (mm)

100W, 150W

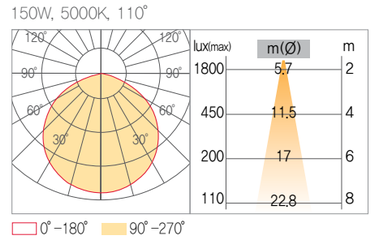


Photometric Data / Cone lux level

100W, 5000K, 110°



150W, 5000K, 110°



Application Site

Factories, Industrial sites etc.

※Some of the above specifications may change to improve performance

LED High-bay Luminaire Series

RHBL 100W

- Housing : Aluminum diecasting
- Cover : Tempered glass
- Power Consumption : 100W
- Color Temperature : 5000K
- Beam Angle : 110°
- Power Factor : ⟩0.90
- Operating Temperature : −20℃ ~ 50℃
- Storage Temperature : −30℃ ~ 80℃
- 50,000 hours (30℃)
- IP66

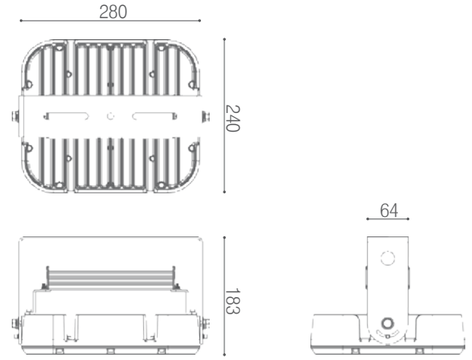
Bracket Type

Chain Type

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∧	V	kg	T	C
SHBBRA04N3A02	100	11,000	110	5000	83	110	100~240	6.0	Bracket Chain	KCC, KC, KE
TBD	100	14,500	145	5000	85	110	100~240	6.0		PSE
SHBBRA04N3A04	100	14,600	146	5000	85	110	100~240	6.6		

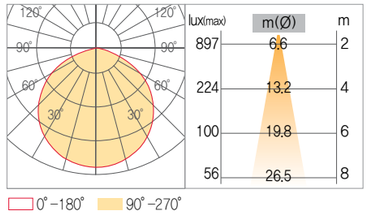
Product Specification (mm)

100W



Photometric Data / Cone lux level

100W, 5000K, 110°



Application Site

Factories, Industrial sites etc.

※Some of the above specifications may change to improve performance

LED High-bay Luminaire Series

EHBL 78W, 110W, 146W

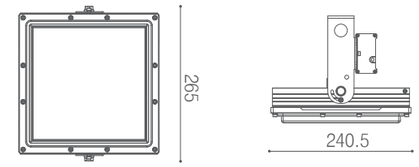
- Housing : Aluminum Extruding
- Cover : Polycarbonate (PC)
- Power Consumption : 78W / 110W / 146W
- Color Temperature : 5000K
- Beam Angle : 110°
- Power Factor : ⟩0.90
- Operating Temperature : −25℃ ~ 45℃
- 50,000 hours (30℃)
- IP65

PSE

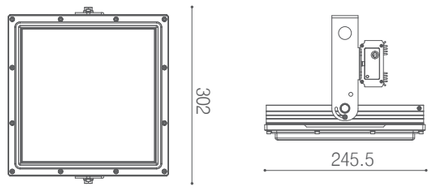
Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∧	V	kg	T	C
TBD	78	12,000	160	5000	70	110	100~240	4.0	Bracket	PSE
TBD	110	17,000	160	5000	70	110	100~240	4.0		
TBD	146	22,000	160	5000	70	110	100~240	4.8		

Product Specification (mm)

78W, 110W

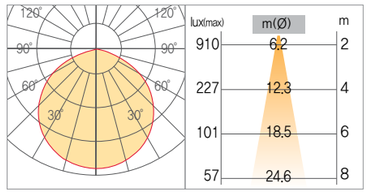


146W

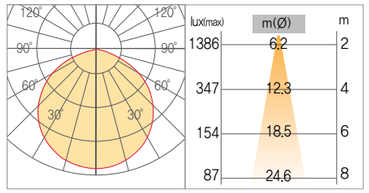


Photometric Data / Cone lux level

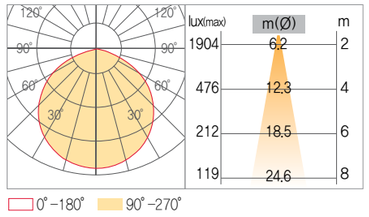
78W, 5000K, 110°



110W, 5000K, 110°



146W, 5000K, 110°



Application Site

Factories, Industrial sites etc.

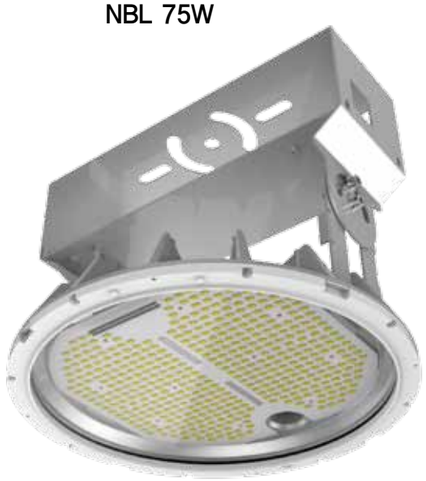
※Some of the above specifications may change to improve performance

LED High-bay Luminaire Series

NBL 75W, 87W

- Housing : Aluminum diecasting
- Cover : Tempered glass
- Power Consumption : 75W / 87W
- Color Temperature : 5700K
- Beam Angle : 110° / 115°
- Power Factor : ⟩0.90
- Operating Temperature : −20℃ ~ 50℃ (75W), −20℃ ~ 45℃ (87W)
- Storage Temperature : −20℃ ~ 60℃ (75W), −30℃ ~ 50℃ (87W)
- 40,000 hours (25℃)
- IP66

NBL 75W



Bracket Type

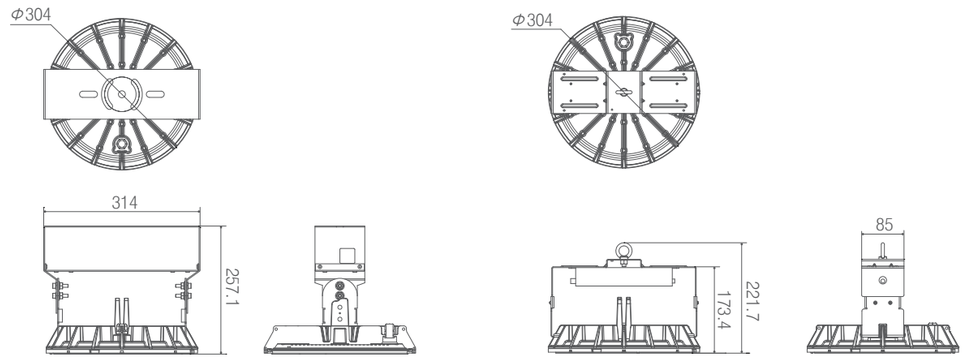
NBL 87W

Chain Type

Model No.	Power Consumption	Luminous Flux	Im/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∧	V	kg	T	C
GHBBR802C1B00-OWELL	75	12,000	160	5700	80	115	100~240	4.4	Chain, Bracket	KC, KE
PHBCH854C1B00	87	12,000	138	5700	80	110	100~240	4.3		

Product Specification (mm)

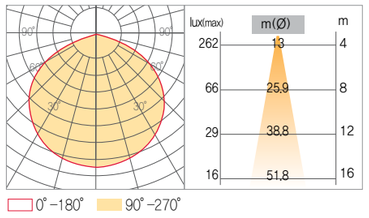
75W



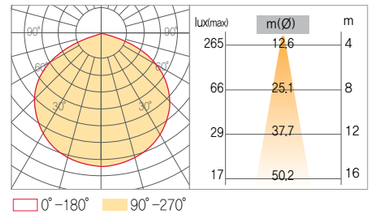
87W

Photometric Data / Cone lux level

75W, 5700K, 115°



87W, 5700K, 110°



Application Site

Factories, Industrial sites, Commercial facilities etc.

※Some of the above specifications may change to improve performance

LED High-bay Luminaire Series

NBL 230W, 265W

- Housing : Aluminum diecasting
- Cover : Tempered glass
- Power Consumption : 230W / 265W
- Color Temperature : 5000K
- Beam Angle : 60° / 115°
- Power Factor : ⟩0.90(230W) / ⟩0.95(265W)
- Operating Temperature : −30℃ ~ 50℃
- Storage Temperature : −40℃ ~ 80℃
- 50,000 hours (50℃)
- IP65

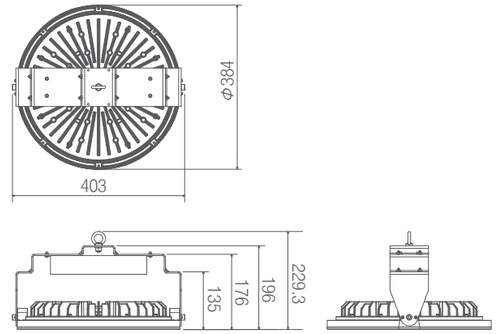
NBL 230W

NBL 265W

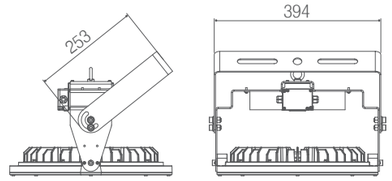
Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Dimming (Option)	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra		V	kg	Dim	T	C
GHBCHB33N3600	230	34,000	150	5000	80	60, 115	100~277	9.1	1-10	Chain (Bracket Option)	CE
GHBCHB63N361P	265	40,000	150	5000	80	60, 115	100~277	9.2	1-10		CE, SAA

Product Specification (mm)

230W, 265W

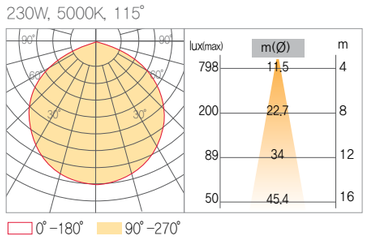


Option Drawing

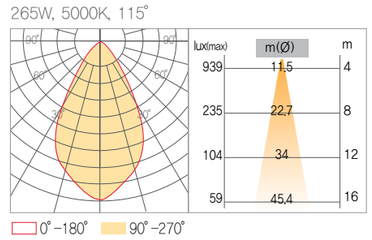


Photometric Data / Cone lux level

230W, 5000K, 115°



265W, 5000K, 115°



Application Site

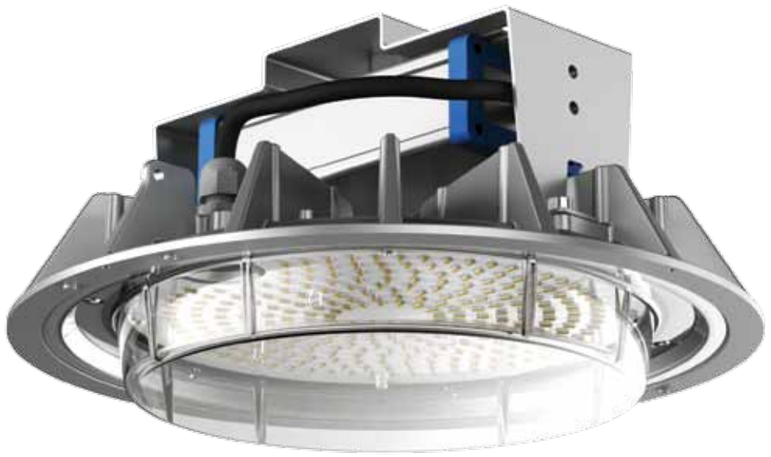
Factories, Industrial sites etc.

※Some of the above specifications may change to improve performance

LED High-bay Luminaire Series

NBL 78W, 82W, 110W, 115W, 127W

- Housing : Aluminum diecasting
- Cover : Polycarbonate (PC)
- Power Consumption : 78W / 82W / 110W / 115W / 127W
- Color Temperature : 5700K
- Beam Angle : 55° / 65° / 110° / 115°
- Power Factor : ⟩0.90
- Operating Temperature : −30℃ ~ 50℃
- Storage Temperature : −40℃ ~ 80℃
- 50,000 hours (50℃)
- IP65



Mirror Reflector 65°

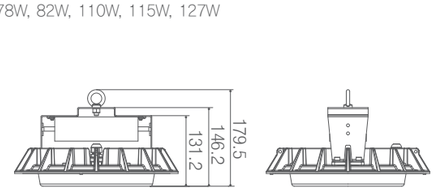
White Reflector 110°

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Dimming (Option)	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra		V		Dim	T	C
GHBCH783C1B00	78	11,700	150	5700	80	65, 110 (Reflector) / 115	220	3		Chain	CE, KC, KE
GHBCH824C1B1P	82	12,300	150	5700	80		100~220	3	dimming		CE, SAA
GHBCHA13C1B00	110	16,000	145	5700	80		220	3			CE, KC, KE
GHBCHA13C1B00	115	16,680	145	5700	80		100~220	3.4	dimming		CE, SAA
GHBCHA24C1B1P	127	21,590	170	5700	70	55 / 115	100~240	3.4	dimming		CE, SAA

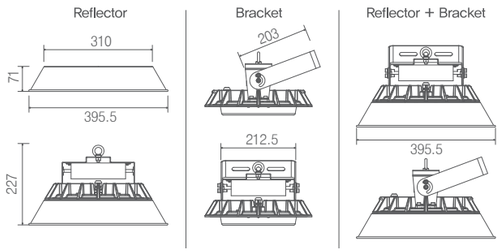
Type	Model No.	Option Type	Size (mm)	Weight (g)	Material	Applications
Option (Separate purchase)	BL0204-0006	Mirror Reflector (65 Deg)	Ø395.5 x 71	300	AL1050	Distribution 65°
	BL0204-0003	White Reflector (110 Deg)	Ø395.5 x 71	300	AL1050	Distribution 110°
	BL0106-0093	Wall Mount Bracket	212.4 x 203	700	Steel	Wall mount type
	BL0203-0002	Anti-Glare Plate	Ø190 x 2T	70	Polycarbonate	Anti Glare / Efficiency 20% ↓
	BL0205-0020	Anti-Pollutant Plate	Ø190 x 2T	70	Polycarbonate	Clear Plate / Efficiency 7% ↓

Product Specification (mm)

78W, 82W, 110W, 115W, 127W



Option Drawing

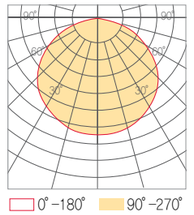


Application Site

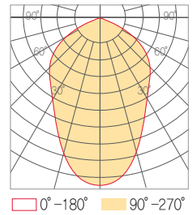
Factories, Industrial sites, Commercial facilities etc.

Photometric Data

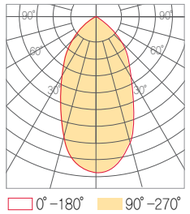
Normal type (115°)



Option Reflector type (65°)



Option Reflector type (55°)



※Some of the above specifications may change to improve performance

LED Explosion-proof Luminaire Series

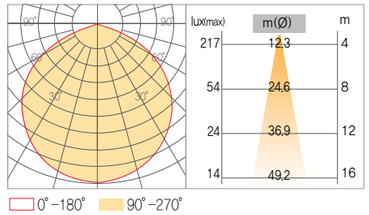
EP 60W, 80W

- Housing : Aluminum diecasting
- Cover : Tempered glass
- Power Consumption : 60W / 80W
- Color Temperature : 5700K
- Beam Angle : 115°
- Power Factor : ⟩0.90
- Operating Temperature : −30℃ ~ 50℃
- Storage Temperature : −20℃ ~ 60℃
- 40,000 hours (50℃)
- IP66

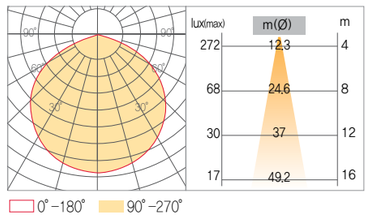
Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∧	V	kg	T	C
GEPCL604C1B00	60	9,600	155	5700	80	115	220	10	Ceiling Bracket Pendant Stanchion Gooseneck Pole	KCS (Ex d II C T6 50℃)
GEPCL804C1B00	80	12,400	160	5700	80	115	220	10.2		
GEPCL604C1BA0	60	8,700	145	5700	80	115	220	9		
GEPCL604C1BA0	80	11,600	145	5700	80	115	220	9.2		

Photometric Data / Cone lux level

60W, 5700K, 115°



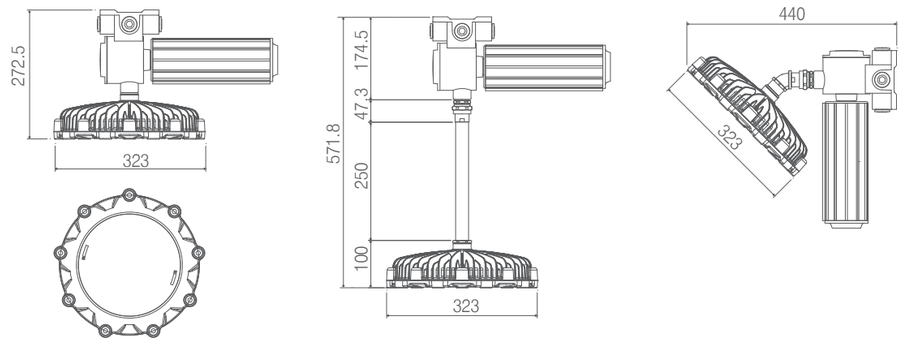
80W, 5700K, 115°



Application Site

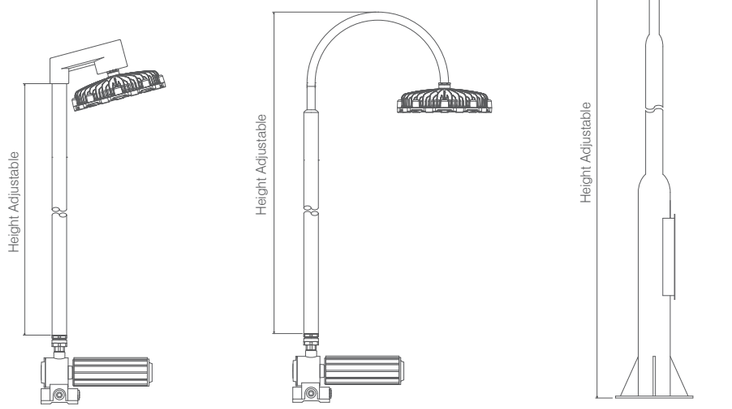
Factories, Industrial sites etc.

Product Specification (mm)



Ceiling Type　　Pendant Type　　Bracket Type

Product Specification (mm)



Stanchion Type　　Goose Neck Type　　Pole Type

※Some of the above specifications may change to improve performance

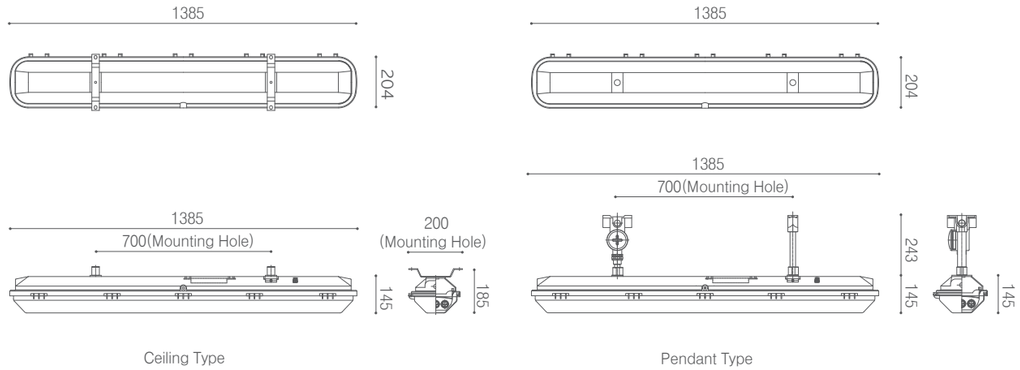
LED Non-Sparking Luminaire

EFDFL-LED Ex denR IIB T6, Ex tD A21 T85°C

- Mounting Box : Aluminum diecasting
- Housing : Steel
- Cover : Polycarbonate (PC)
- Power Consumption : 16.8W x 2
- Color Temperature : 5700K
- Beam Angle : 137°
- Power Factor : ⟩0.90
- Operating Temperature : −25℃ ~ 50℃
- Storage Temperature : −25℃ ~ 80℃
- 50,000 hours (30℃)
- IP66

Model No.	SMPS	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Explosion-proof rating	Cert.
No.		W	lm	lm/W	K	Ra		V			C
EFDFL-LED	SKC	14.6 x 2 SMPS included 16.8W x 2	3,983	110	5700	80	137	220	6	Ex denR IIB, Ex tD A21 T85°C	KCS

Product Specification (mm)

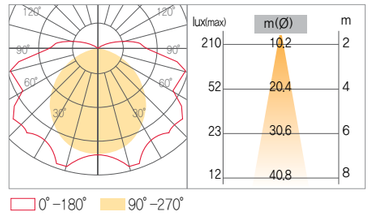


Ceiling Type

Pendant Type

Photometric Data / Cone lux level

16.8W x 2, 5700K,137°



Application Site

Zone 1, Zone 2

※Some of the above specifications may change to improve performance

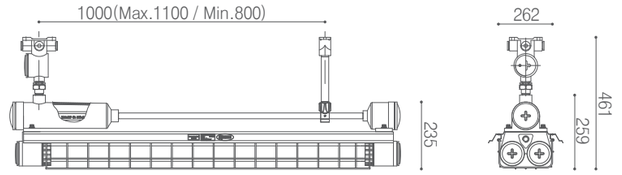
LED Flame-proof Luminaire

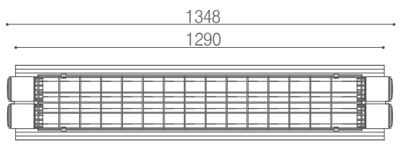
SDF-L24x2P Ex de IIC T5, Zone1, 2

- Housing : Aluminum diecasting
- Cover : Steel, Operating Temperature
- Power Consumption : 16.8W x 2
- Color Temperature : 5700K
- Beam Angle : 137°
- Operating Temperature : -25℃ ~ 50℃
- 50,000 hours (30℃)
- IP65

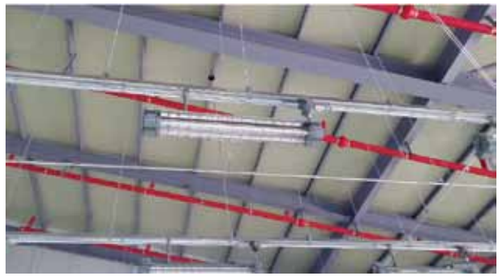
Model No.	SMPS	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Explosion-proof rating	Cert.
No.		W	lm	lm/W	K	Ra		V			C
SDF-L24x2P	SKC	14.6W x 2 SMPS included 16.8W x 2	3,983	110	5700	80	137	220	16.5	Ex de IIC T5	KCS

Product Specification (mm)





Application Site



Zone 1, Zone 2

※Some of the above specifications may change to improve performance

Explosion proof technical data

Method of Protection

Classification	Mark
Flame Proof	d
Increased Safety	e

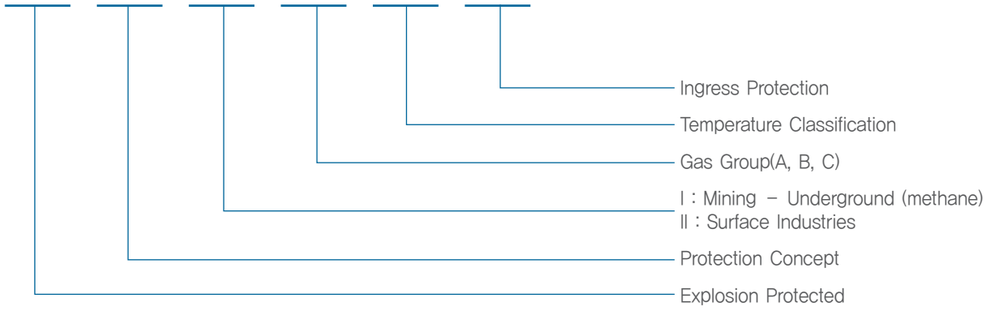
Maximum Temperature on surface and Temperature Classes

Classification	IEC	KS, JIS
300 – 450	T1	G1
200 – 300	T2	G2
135 – 200	T3	G3
100 – 135	T4	G4
85 – 100	T5	G5
Less than 85	T6	

International Standard

Area	Standard
Korea	Notification of the Ministry of Labor KS IEC 60079-0, 1, 2, 5, 6, 7, 11 : 2001
International (IEC)	IEC 60079-0 ~ 19
North America	NFPA ISA, UL, FM, CSA
Europe	CENELEC EN

How to mark explosion-proof rating



Protection concept

Protection Method	Mark		Contents	
Flame Proof	d		Explosion-proof structure in which the container can withstand the explosion pressure when the explosion occurs inside the container by the ignition source and the flame is not spread to the explosive atmosphere outside the container	
Increased Safety	e		Explosion-proof structure with increased safety through additional safety measures to prevent the risk of overheating of electrical equipment, arcs or sparking	
Non Sparking	n	nA	Non-Sparking Device	A device made to minimize the occurrence of arcs or sparks that may cause ignition under normal operating conditions.
		nR	Ventilation limited container	Containers designed to prevent gas, steam and mist from penetrating

Explosion group, Gas group

Group	Hazardous Materials	Mark	Contents	
Mine(I)	Gas	–	Methane gas	
Industrial(II) (KS, JIS, IEC)	Gases & Vapors	A	Acetone, benzene, butane, propane, ethanol, ammonia	
		B	Ethylene, butadiene, city gas	
		C	Hydrogen, acetylene, emulsified carbon	
	Dust	Mark	Deflagrable dust	Combustible dust
		11	Magnesium, aluminum	Zinc, coke, carbon black, rubber, dyes, phenolic resin, polyethylene
		12	Aluminum (resin)	Cocoa, lignin, rice bran
		13		Sulfur

Comparison of Standard for Hazardous Location by Country

Country	Continuous dangerous atmosphere under normal conditions	Temporary dangerous atmosphere under normal conditions	Dangerous atmosphere under abnormal conditions
Korea, Japan	Zone 0	Zone 1	Zone 2
IEC, Europe	Zone 0	Zone 1	Zone 2
USA	Division 1		Division 2

Classification of Hazardous Location (Korea and IEC, Europe)

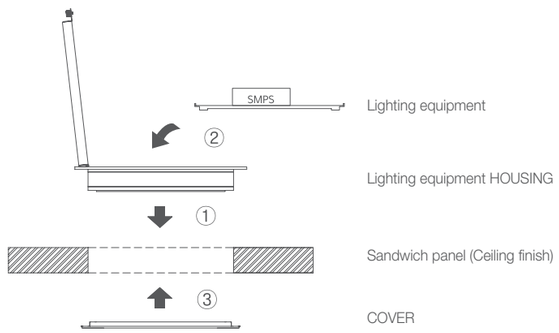
Classification	Contents	Example
Zone 0	A place where dangerous atmosphere continues to occur or may occur under normal conditions	Top space in storage container of flammable liquid, inside flammable gas container, Pit Trench containing flammable liquid
Zone 1	A place where dangerous atmosphere may occur under normal conditions	Around zone 0, around the oil supply inlet, around the connection opened for operation
Zone 2	A place where dangerous atmosphere may exist for a short time under normal conditions (Normal maintenance, failure, malfunction, etc.)	Around Zone 1, around the connection of the equipment, around the sealing of the pump

Bio Clean Room Luminaire Series

BCR

- Housing : Aluminum
- Cover : Polycarbonate (PC)
- Power Consumption : L-TUBE (20W / 30W / 36W / 54W)
  LED FPL (45W / 60W)
  LED FLAT (40W)
- Socket : 2G11 / G12
- Color Temperature : 5700K
- Beam Angle : 110°
- Operating Temperature : -20℃ ~ 50℃
- Storage Temperature : -40℃ ~ 80℃
- 50,000 hours (30℃)

Installation
conceptual diagram



Lighting equipment

Lighting equipment HOUSING

Sandwich panel (Ceiling finish)

COVER

Model No. No.	Lamp Type L	Power Consumption W	Dimension mm	Hole Size mm	CCT K
BCR-LEDT202R-TS/TC	L-TUBE	36(18W x 2)	1320 x 339 x 78	1268 x 292	5700
BCR-LEDT202R-BS/BT/BB	L-TUBE	36(18W x 2)	1320 x 339 x 78	1268 x 292	5700
BCR-LEDT203R-TS/TC	L-TUBE	54(18W x 3)	1320 x 339 x 78	1268 x 292	5700
BCR-LEDT203R-BS/BT	L-TUBE	54(18W x 3)	1320 x 339 x 78	1268 x 292	5700
BCR-LEDT153S-TS/TC	LED FPL	45(15W x 3)	544 x 544 x 78	498 x 492	5700
BCR-LEDT153S-BS/BT	LED FPL	45(15W x 3)	544 x 544 x 78	498 x 492	5700
BCR-LEDT154S-TS/TC	LED FPL	60(15W x 4)	544 x 544 x 78	498 x 492	5700
BCR-LEDT154S-BS/BT	LED FPL	60(15W x 4)	544 x 544 x 78	498 x 492	5700
BCR-LEDF401R-TC	LED FLAT	40	1261 x 362 x 78	1210 x 308	5700
BCR-LEDF401R-BS/BT/BB	LED FLAT	40	1261 x 362 x 78	1210 x 308	5700
BCR-LEDF401S-TC	LED FLAT	40	662 x 662	618 x 612	5700
BCR-LEDF401S-BS/BT/BB	LED FLAT	40	662 x 662	618 x 612	5700

EX) BCR-LEDF401R-TC
① ② ③④ ⑤⑥

① Type of light source LEDT : Tubular LED Lamp
LEDF : Flat type LED

② Power consumption

③ Qty. of Lamps

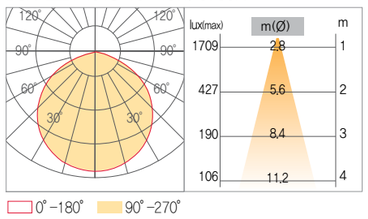
④ Luminaire shape R : Rectangle
S : Square

⑤ Open area T : Upper part opening
B : Lower part opening

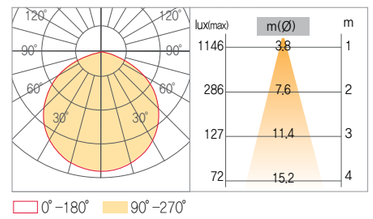
⑥ Luminaire type S : Standard
C : Cover
T : T-type
B : Box

Photometric Data / Cone lux level

BCR-LEDF401S-TC 40W, 5700K

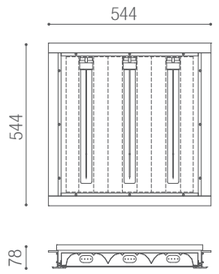


BCR-LEDT202R-TS 18WX2, 5700K

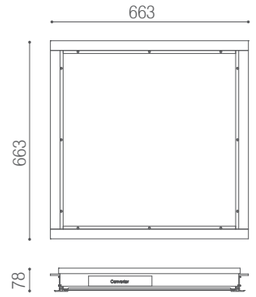


Product Specification (mm)

LED FPL Lamp type



LED Flat Panel type



※Some of the above specifications may change to improve performance

LED Clean Room Luminaire Series

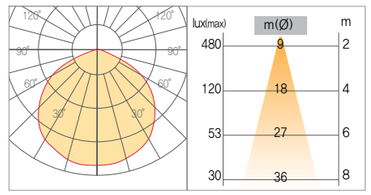
CRL 54W, 108W

- Housing : Aluminum
- Cover : Polycarbonate (PC), Reflector 85%
- Power Consumption : 54W / 108W
- Socket : 2G11
- Color Temperature : 5700K
- Beam Angle : 110°
- Operating Temperature : −20℃ ~ 50℃
- Storage Temperature : −40℃ ~ 80℃
- 50,000 hours (30℃)
- Max allowable load 200kg

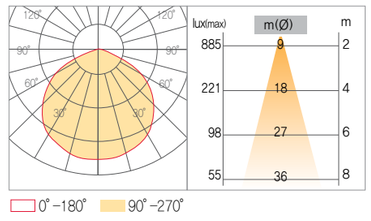
Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Cert.
No.	W	lm	lm/W	K	Ra	∧	V	kg	C
SLCRL0413K-0612NC0	54(13.5W x 4)	5,372	103	5700	80	110	100~240	19.5	KC, CQC
SLCRL0813K-1212NC0	108(13.5W x 8)	9,577	92	5700	80	110	100~240	39.0	KC, CQC

Photometric Data / Cone lux level

13.5W x 4, 5700K,110°

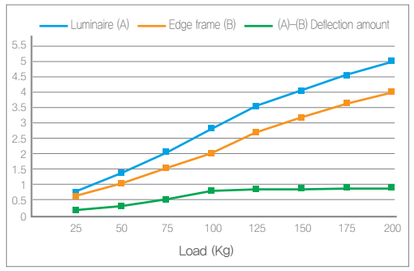


13.5W x 8, 5700K,110°



Luminaire allowable load measurement result

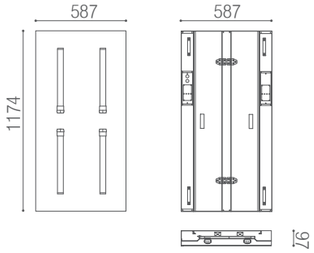
Load (Kg)	Luminaire(A)	Edge frame(B)	(A)−(B)
	Deflection (mm)		
25	0.71	0.58	0.13
50	1.32	1.04	0.28
75	2.01	1.50	0.51
100	2.76	1.97	0.79
125	3.48	2.65	0.83
150	3.99	3.12	0.87
175	4.47	3.58	0.89
200	4.92	4.01	0.91



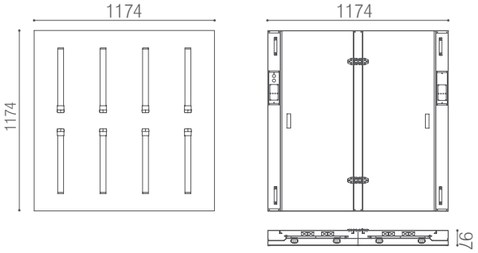
※Some of the above specifications may change to improve performance

Product Specification (mm)

13.5W x 4=54W



13.5W x 8=108W



Application Site

Clean rooms, Semiconductor manufacturer etc.

LED Tear Drop Luminaire

TDL 16.8Wx1,16.8Wx2

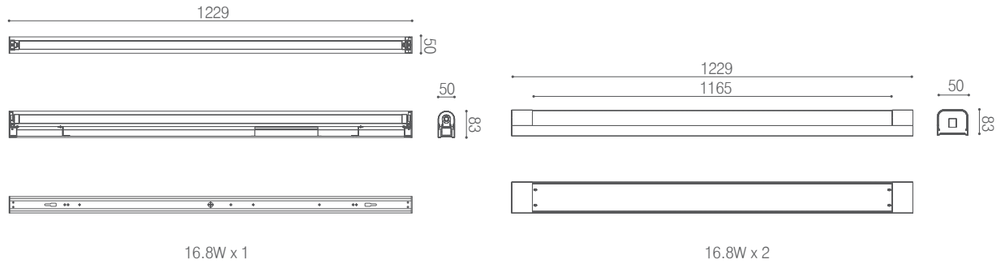
- Housing : Aluminum
- Cover : Polycarbonate (PC)
- Power Consumption : 16.8W x 1 / 16.8W x 2
- Color Temperature : 5700K
- Beam Angle : 130°
- Power Factor : ⟩0.90
- Operating Temperature : −20℃ ~ 50℃
- Storage Temperature : −25℃ ~ 80℃
- 50,000 hours (30℃)

LNL2401 – 16.8W x 1

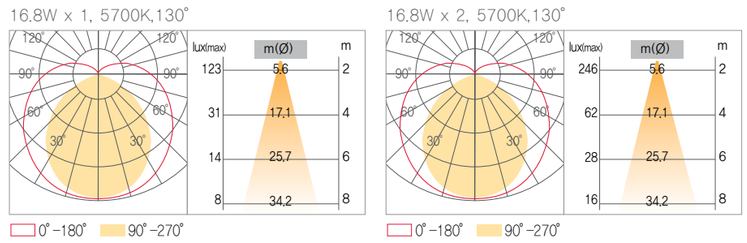
LNL2402 – 16.8W x 2

Model No.	SMPS	Power Consumption	Luminous Flux	Im/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Cert.
No.		W	lm	lm/W	K	Ra		V		C
LNL-2401	SKC	14.6W x 1 SMPS included 16.8W x 1	2,040	118	5700	80	130	220	2.1	KC
LNL-2402	SKC	14.6W x 2 SMPS included 16.8W x 2	4,080	118	5700	80	130	220	3.1	KC

Product Specification (mm)



Photometric Data / Cone lux level



Application Site

Clean rooms, Semiconductor and high-tech industrial sites, Offices

※Some of the above specifications may change to improve performance

LED High-bay Luminaire Series

HTBL 90W, 150W To be released

Option 1-10V Dimming

Application Site Factories, The fiercest environments (High temperature/Strong dust) etc.

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∠	V	kg	T	C
TBD	90	13,050	145	5000	70	115	220	5.3	Bracket Chain Pipe	KCC, KC
TBD	150	21,750	145	5000	70	115	220	7		KCC, KC

SBL 100W, 160W, 260W To be released

Zigbee 1-10V, Sensor

Application Site Factories, Industrial sites etc.

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∠	V	kg	T	C
TBD	100	15,000	150	5000	80	60/110	100~277	6.2	Chain (Bracket Option)	CE
TBD	160	23,500	150	5000	80	90/110	100~277	7.5		CE
TBD	260	38,500	150	5000	80	90/110	100~277	8.7		CE

LED High-bay Luminaire Series

LBL 80W, 160W, 240W To be released

Option 1-10V Dimming, Sensor

Application Site Factories, Industrial sites etc.

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∠	V	kg	T	C
TBD	80	12,000	150	5000	75	Multi	100~277	5.5	Chain (Bracket Option)	CE
TBD	160	24,000	150	5000	75	Multi	100~277	6.5		CE
TBD	240	36,000	150	5000	75	Multi	100~277	8		CE

LED Canopy Luminaire Series

CP 65W, 90W To be released

Option 1-10V Dimming

Application Site Factories, Industrial sites etc.

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∠	V	kg	T	C
TBD	65	9,000	150	5000	80	110	100~277	5.5	Surface Mount	CE, SAA
TBD	90	15,000	150	5000	80	110	100~277	5.5		CE, SAA

※Some of the above specifications may change to improve performance

02

OUTDOOR

LED FLOOD LIGHT LUMINAIRE

LED STREET LUMINAIRE

LED SECURITY LUMINAIRE

LED MODULE

LED Flood Light Luminaire Series

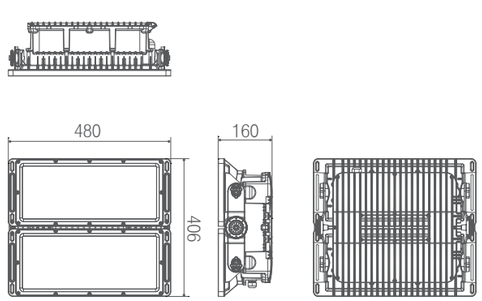
LE 385W

- Housing : Aluminum diecasting
- Cover : Tempered glass
- Power Consumption : 385W
- Color Temperature : 5700K
- Beam Angle : 30° / 45° / 60°
- Power Factor : ⟩0.90
- Operating Temperature : −25℃ ~ 50℃
- Storage Temperature : −25℃ ~ 80℃
- 50,000 hours (30℃)
- IP67

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∠	V	kg	T	C
GFLWMC83C140A	385	44,000	110	5700	70	30, 45, 60	220	18	Bracket	CE, SAA

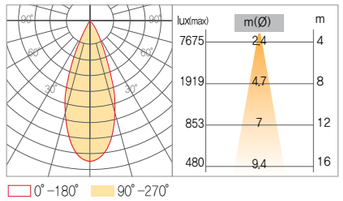
Product Specification (mm)

385W

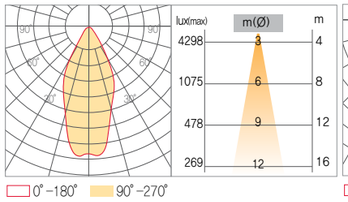


Photometric Data / Cone lux level

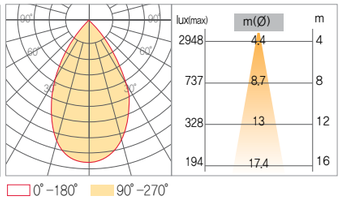
385W, 5700K, 30°



385W, 5700K, 45°



385W, 5700K, 60°



Application Site

Factories, Industrial sites, Commercial facilities, Outdoor facilities etc.

※Some of the above specifications may change to improve performance

LED Flood Light Luminaire Series

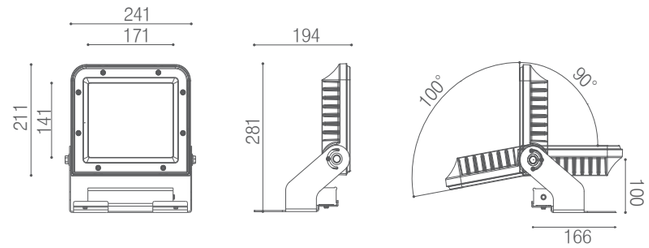
FL 38W, 48W, 60W, 75W

- Housing : Aluminum diecasting
- Cover : Tempered glass
- Power Consumption : 38W / 48W / 60W / 75W
- Color Temperature : 5700K
- Beam Angle : 110°
- Power Factor : ⟩0.90
- Operating Temperature : −25℃ ~ 50℃
- Storage Temperature : −25℃ ~ 80℃
- 50,000 hours (30℃)
- IP66

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∠	V	kg	T	C
SFLBR384C1B00	38	5,500	144	5700	85	110	100~240	4.3	Bracket	PSE, CE
SFLBR484N3B00	48	6,500	135	5700	85	110	100~240	4.3		PSE, CE
SFBR604N3B00	60	7,500	125	5700	85	110	100~240	4.3		PSE, CE
SFLBR804N3B00	75	11,504	153	5700	85	110	100~240	4.3		KS

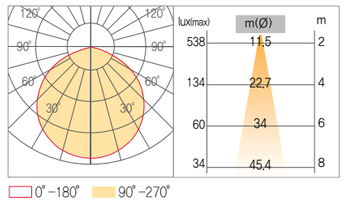
Product Specification (mm)

38W, 48W, 60W, 75W

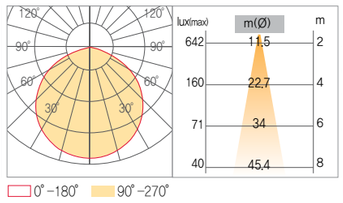


Photometric Data / Cone lux level

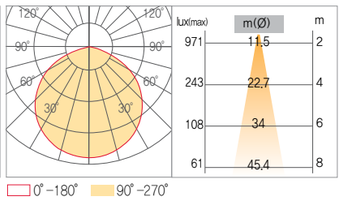
48W, 5700K, 110°



60W, 5700K, 110°



75W, 5700K, 110°



Application Site

Signs, Factories, Commercial facilities, Outdoor facilities etc.

※Some of the above specifications may change to improve performance

LED Flood Light Luminaire Series

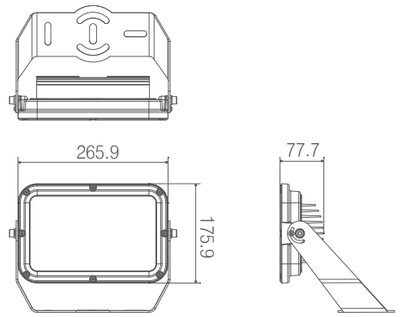
MFL 50W, 70W, 90W

- Housing : Magnesium diecasting
- Cover : Tempered glass
- Power Consumption : 50W / 70W / 90W
- Color Temperature : 5700K
- Beam Angle : 35° / 45° / 60°
- Power Factor : ⟩0.90
- IP66

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∠	V	kg	T	C
TBD	50	7,000	140	5700	75	35, 45, 60	220	2.5		
TBD	70	9,800	140	5700	75	35, 45, 60	220	2.5	Bracket	KC, KE
TBD	90	12,600	140	5700	75	35, 45, 60	220	2.5		

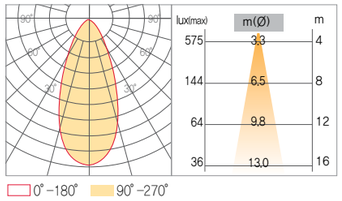
Product Specification (mm)

50W, 70W, 90W

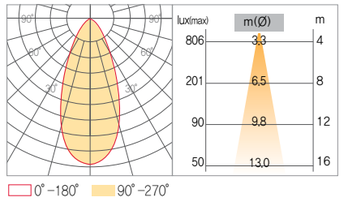


Photometric Data / Cone lux level

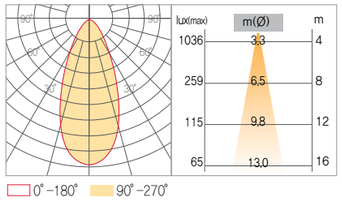
50W, 5700K, 45°



70W, 5700K, 45°



90W, 5700K, 45°



Application Site

Factories, Industrial sites etc.

※Some of the above specifications may change to improve performance

LED Street Luminaire Series

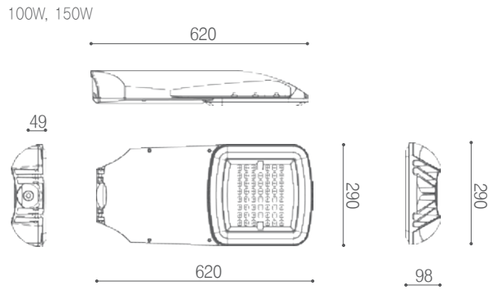
ST 100W, 150W

- Housing : Aluminum diecasting
- Power Consumption : 100W / 150W
- Color Temperature : 3000K / 5700K
- CRI : 75
- Beam Angle : IESNA Cassification TYPE I Short
  IESNA Cassification TYPE II Short
  IESNA Cassification TYPE III Short
- Power Factor :)0.90
- Operating Temperature : -30℃ ~ 50℃
- 50,000 hours (30℃)
- IP66

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∧	V	kg	T	C
SSTHDA04C1T105(TYPE1) SSTHDA04C1T200(TYPE2)	100	12,000	120	5700	75	Type I, II	100~240	7.82	Pole Mount	KE
SSTHDA54C1T201(TYPE2)	150	18,000 15,100	120	5700 3000	75	Type II, III	100~240	7.82		CQC
SSTHDA54C1T200(TYPE2) SSTHDA54C1T300(TYPE3)	150	15,900	106	5700	75	Type II, III	100~240	7.82		KE

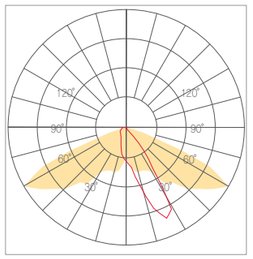
Product Specification (mm)

100W, 150W

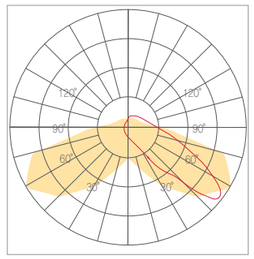


Photometric Data

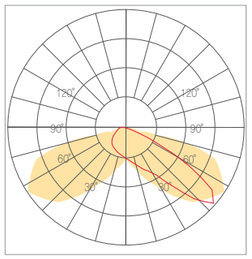
100W, 5700K, IESNA TYPE I Short



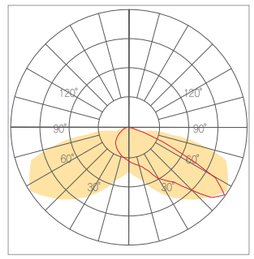
100W, 5700K, IESNA TYPE II Short



150W, 5700K, IESNA TYPE II Short



150W, 5700K, IESNA TYPE III Short



Application Site

Factories, Industrial sites, Roads etc.

※Some of the above specifications may change to improve performance

LED Security Luminaire Series

SCL 25W, 50W

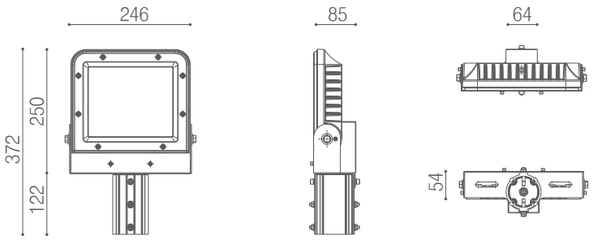
- Housing : Aluminum diecasting
- Cover : Tempered glass
- Power Consumption : 25W / 50W
- Beam Angle : 110°
- Power Factor : ⟩0.90
- Operating Temperature : −20℃ ~ 50℃
- Storage Temperature : −30℃ ~ 80℃
- 50,000 hours (30℃)
- IP65

- Applicable ARM Thickness : 32A~40A

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type
No.	W	lm	lm/W	K	Ra	∠	V	kg	T
TBD	25	3,500	140	5700	85	110	100~240	4.4	Pole Mount
SSCHD504C1B00	50	7,000	140	5700	85	110	100~240	4.4	

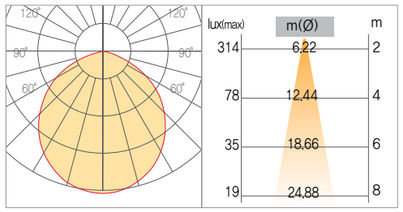
Product Specification (mm)

25W, 50W

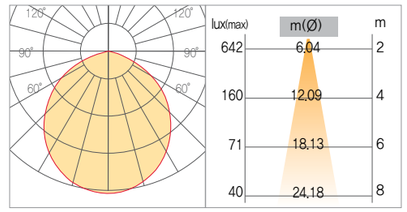


Photometric Data / Cone lux level

25W, 5700K,110°



50W, 5700K,110°



※Some of the above specifications may change to improve performance

LED Module

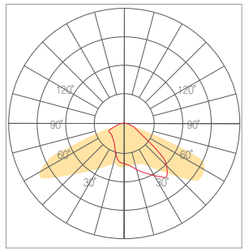
LE 21W

- Housing : Aluminum diecasting
- Power Consumption : 21W
- Color Temperature : 5000K
- Beam Angle : Street / Security / Tunnel
- Power Factor : ⟩0.90
- Operating Temperature : −20℃ ~ 50℃
- Storage Temperature : −30℃ ~ 80℃
- 40,000 hours (50℃)
- IP66

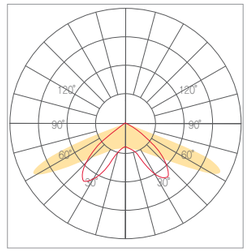
Model No.	Power Consumption	Luminous Flux	Im/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight
No.	W	lm	lm/W	K	Ra	°	V	kg
GLEAE258XXXXX	21	2,750	125	5000	75	Street / Security / Tunnel	30	0.35

Photometric Data

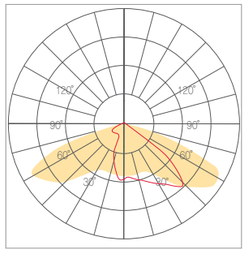
Security Light



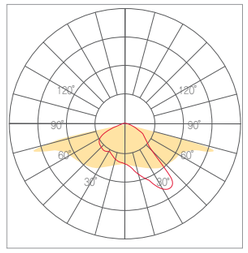
Tunnel Light



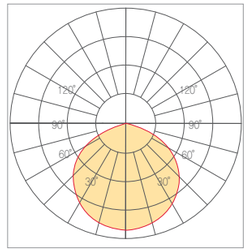
Illuminance, Street Light



Luminance, Street Light

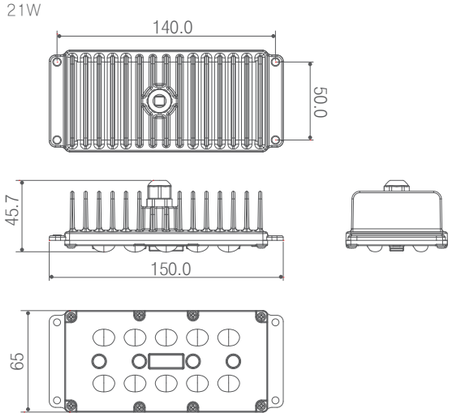


Lambertian



Product Specification (mm)

21W



Application Site

Factories, Industrial sites, Roads etc.

※Some of the above specifications may change to improve performance

03

INDOOR

LED DOWNLIGHT

LED FLAT PANEL LUMINAIRE

LED LINEAR LUMINAIRE

LED T5 LUMINAIRE

LED Downlight Series

QDL 10W, 12W, 15W, 20W

- Housing : Steel
- Cover : Polypropylene (PP)
- Power Consumption : 10W /12W / 15W / 20W
- Color Temperature : 4000K / 5700K
- Beam Angle : 110°
- Power Factor :)0.90
- Operating Temperature : -20℃ ~ 40℃
- Storage Temperature : -25℃ ~ 65℃
- 50,000 hours (30℃)

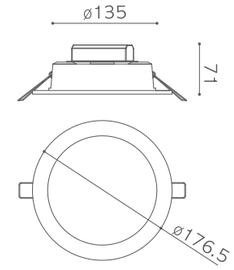
QDL 10W,12W,15W

QDL 20W

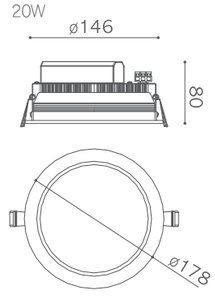
Lamp Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Hole Size	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∧	V	kg	mm	T	C
QDL-10WK	10	880	86	5700	85	110	100~240	0.37	150	6inch Recessed type	KC
QDL-10WKE	10	931	86	5700	85	110	100~240	0.37	150		KC, KE
QDL-12W40KE	12	1,080	90	4000	85	110	100~240	0.37	150		KC, KE
QDL-12WK	12	1,030	86	5700	85	110	100~240	0.37	150		KC
QDL-12WKE	12	1,081	90	5700	85	110	100~240	0.37	150		KC, KE
QDL-15WK	15	1,330	89	5700	85	110	100~240	0.37	150		KC
QDL-15WKE	15	1,380	90	5700	85	110	100~240	0.37	150		KC, KE
QDL-20W40KE	20	1,830	94	4000	85	110	100~240	0.4	150		KC, KE
QDL-20WKE	20	1,897	98	5700	85	110	100~240	0.4	150		KC, KE

Product Specification (mm)

10W, 12W, 15W

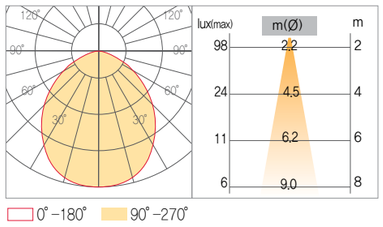


20W

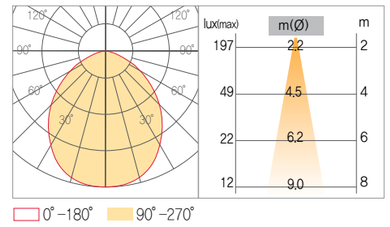


Photometric Data / Cone lux level

6inch, 10W, 5700K, 110°



6inch, 20W, 5700K, 110°



Application Site

Airports, Offices, Restaurants, Hospitals, Schools etc.

※Some of the above specifications may change to improve performance

LED Downlight Series

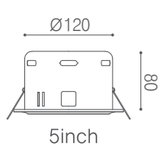
SDL 12W, 19.5W

- Housing : Steel
- Cover : Polycarbonate (PC)
- Power Consumption : 12W / 19.5W
- Color Temperature : 5000K
- Beam Angle : 90°, 95°
- Power Factor :)0.90
- Operating Temperature : −20℃ ~ 40℃
- Storage Temperature : −25℃ ~ 65℃
- 40,000 hours (30℃)

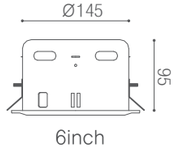
Housing Size (mm)	Lamp Model No.	Power Consumption W	Luminous Flux lm	lm/W	CCT K	(Typ.) CRI Ra	Beam Angle	Input Voltage V	(Including SMPS) Weight kg	Hole Size (mm)	Installation Type T	Cert. C
5inch	SLSGX012-110VF0	12	962	80	5000	80	90	100~240	0.6	130	Recessed type	KS
6inch	SLSGX012-110VF0	12	962	80	5000	80	95	100~240	0.8	155		KS
	SLSGX019-110VF0	19.5	1,593	81	5000	80	95	100~240	1	155		KS

Product Specification (mm)

12W

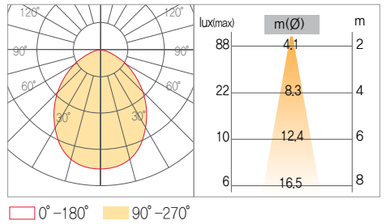


19.5W

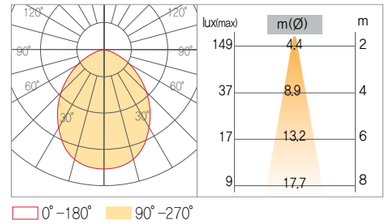


Photometric Data / Cone lux level

5inch,12W, 5000K, 90°



6inch,19.5W, 5000K, 95°



Application Site

Airports, Offices, Restaurants, Hospitals, Schools etc.

※Some of the above specifications may change to improve performance

LED Flat Panel Luminaire Series

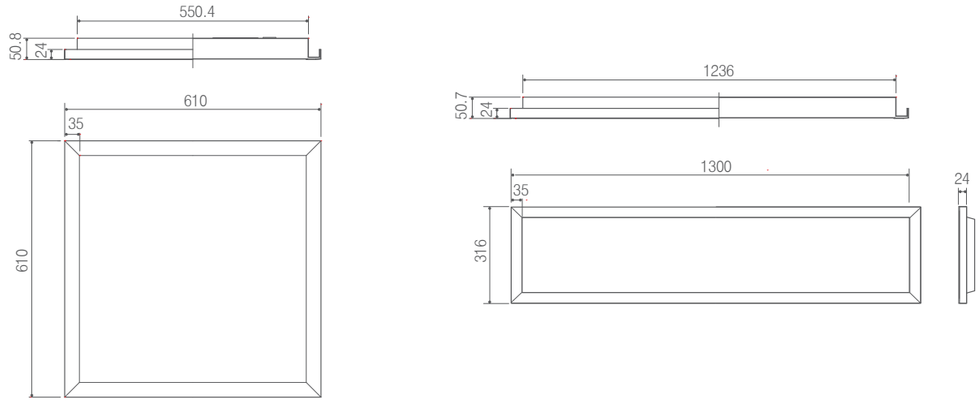
PL 40W

- Housing : Cold Rolled Steel
- Cover : PS Plate
- Power Consumption : 40W
- Color Temperature : 5700K
- Beam Angle : 110°
- Power Factor :)0.90
- Operating Temperature : -25℃ ~ 50℃
- 50,000 hours (30℃)

Lamp Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Hole Size	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∧	V	kg	mm	T	C
TBD	40	4,000	100	5700	80	110	100~240	3.7	550 x 550	M-bar type	KC, KE
TBD	40	4,000	100	5700	80	110	100~240	3.9	1236 x 250		KC, KE

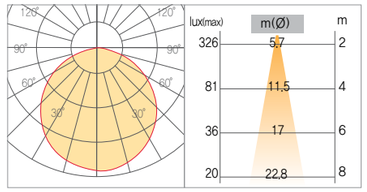
Product Specification (mm)

40W



Photometric Data / Cone lux level

40W, 5700K, 113°



Application Site

Offices, Houses, Schools, Government offices etc.

※Some of the above specifications may change to improve performance

LED Flat Panel Luminaire Series

NPL 38W, 40W

- Housing : Aluminum
- Cover : Polystyren (PS)
- Power Consumption : 38W / 40W
- Color Temperature : 5700K
- Beam Angle : 120°
- Power Factor :)0.90
- Operating Temperature : -25℃ ~ 50℃
- 50,000 hours (30℃)

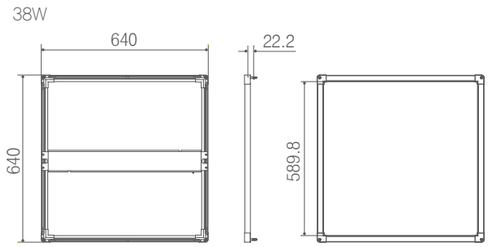
NPL 38W

NPL 40W

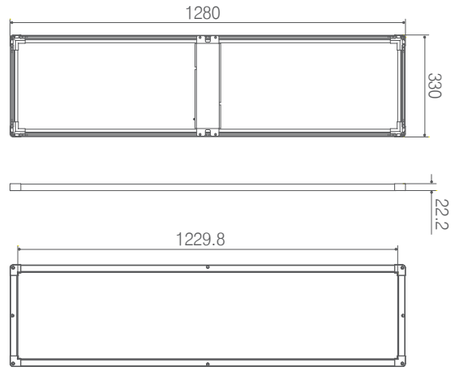
Lamp Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Hole Size	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∠	V	kg	mm	T	C
GPDDM383C1B00	38	4,180	110	5700	80	120	100~240	3.7	640x640	Direct mount	KC, KE
GPBDM403C1B00	40	4,400	110	5700	80	120	100~240	3.9	1280x330		KC, KE

Product Specification (mm)

38W

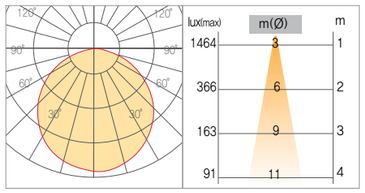


40W

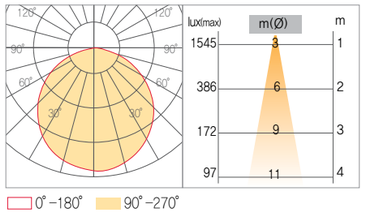


Photometric Data / Cone lux level

38W, 5700K, 120°



40W, 5700K, 120°



Application Site

Offices, Houses, Schools, Government offices etc.

※Some of the above specifications may change to improve performance

LED Flat Panel Luminaire Series

EPL 30W, 40W

- Housing : Aluminum
- Cover : Polystyren (PS)
- Power Consumption : 30W / 40W
- Color Temperature : 5700K
- Beam Angle : 113°
- Power Factor : ⟩0.90
- Operating Temperature : −25℃ ~ 50℃
- 50,000 hours (30℃)

EPL30W / 40W(600x600)

EPL30W / 40W(1200x300)

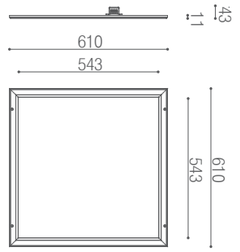
T BAR

M BAR

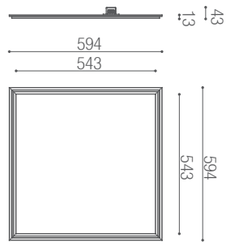
Model No. No.	Power Consumption W	Luminous Flux lm	lm/W	CCT K	(Typ.) CRI Ra	Beam Angle	Input Voltage V	(Including SMPS) Weight g	Hole Size mm	Cert. C
SLFPK030-6161NM	30	3,732	124	5700	80	113	200~240	3.4	540 x 540 ~ 576 x 576	KS, KC, KE
SLFPK040-6161NM	40	4,752	119	5700	80	113	200~240	3.4		KS, KC, KE
SLFPK030-5959NT	30	3,732	124	5700	80	113	200~240	3.0	576 x 576	KS, KC, KE
SLFPK040-5959NT	40	4,752	119	5700	80	113	200~240	3.0		KS, KC, KE
SLFPK030-C931NM	30	3,922	127	5700	80	113	200~240	3.4	1240 x 260 ~ 1256 x 276	KS, KC, KE
SLFPK040-C931NM	40	5,166	129	5700	80	113	200~240	3.4		KS, KC, KE

Product Specification (mm)

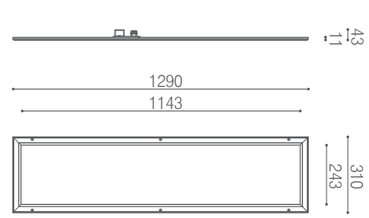
M BAR (EPL 30W)



T BAR (EPL 30W)

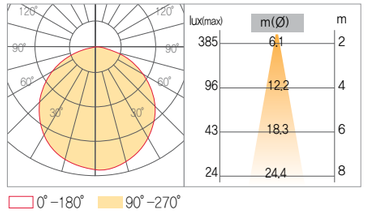


M BAR (EPL 40W)

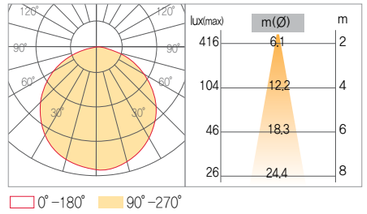


Photometric Data / Cone lux level

600 x 600 40W, 5700K, 113°



1200 x 300 40W, 5700K, 113°



Application Site

Offices, Houses, Schools, Government offices etc.

※Some of the above specifications may change to improve performance

LED Linear Luminaire Series

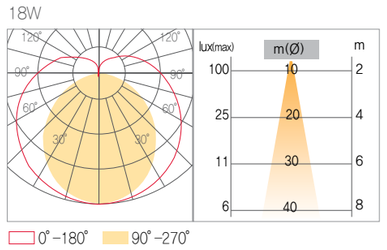
WPL 18W, 30W, 36W, 40W

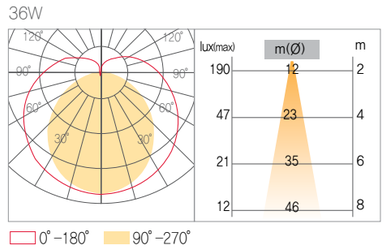
- Surface mount or Raceway type
- Suitable for parking lots requiring lighting for 24 hours
- Power Consumption can be reduced to 70% compared to the previous period, and brightness can be increased by 40%
- Human and vehicle detection sensor (Option)
- 50,000 hours

Model No. No.	Power Consumption W	Luminous Flux lm	lm/W	CCT K	(Typ.) CRI Ra	Beam Angle	Input Voltage V	(Including SMPS) Weight kg	Installation Type T	Cert. C
WPL-CL018-1200-02	18	2,135	125	5700	88	120	220	0.1	Surface mount	KS, KE
WPL-CL030-1200-02	30	3,280	116	5700	88	120	220	0.1		KS, KE
WPL-CL036-1200-02	36	3,975	113	5700	88	120	220	0.1		KS, KE
WPL-CL040-1200-02	40	4,000	100	5700	84	120	220	0.1		KS

Product Specification (mm)

Photometric Data / Cone lux level





Application Site

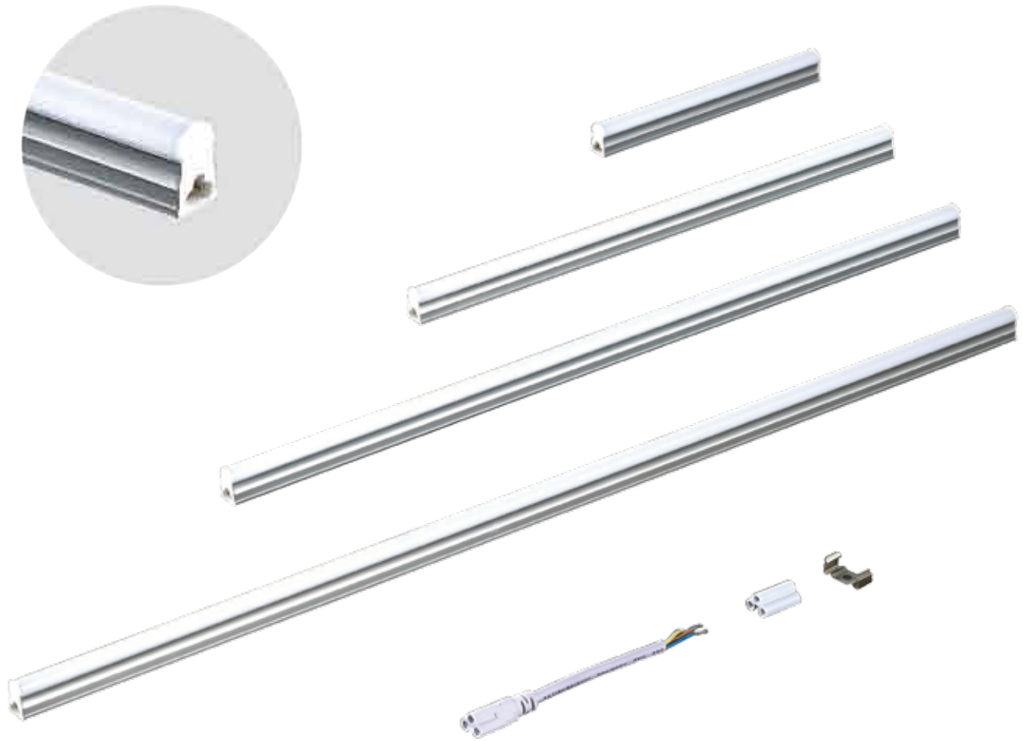
Parking lots, Warehouses, Factories etc.

※Some of the above specifications may change to improve performance

LED T5 Luminaire Series

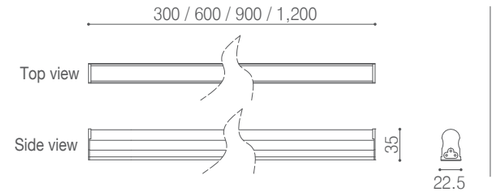
QT5 6W, 10W, 14W, 18W

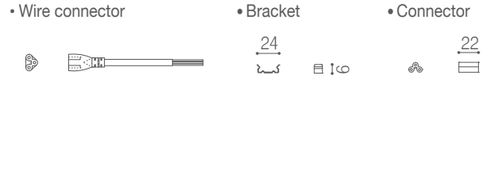
- Housing : Aluminum
- Cover : Polycarbonate (PC)
- Power Consumption : 6W / 10W / 14W / 18W
- Color Temperature : 3000K / 4000K / 5700K
- Beam Angle : 110°



Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Width x Height x Length	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∧	V	kg	mm	T	C
QT5-6W30KE	6	492	82	3000	85	110	220	0.12	22.5x35x300	Surface mount	KS
QT5-10W30KE	10	900	90	3000	85	110	220	0.19	22.5x35x600		KS
QT5-14W30KE	14	1,274	91	3000	85	110	220	0.26	22.5x35x900		KS
QT5-18W30KE	18	1,692	94	3000	85	110	220	0.33	22.5x35x1200		KS
QT5-6W40KE	6	498	83	4000	85	110	220	0.12	22.5x35x300		KS
QT5-10W40KE	10	900	90	4000	85	110	220	0.19	22.5x35x600		KS
QT5-14W40KE	14	1,288	92	4000	85	110	220	0.26	22.5x35x900		KS
QT5-18W40KE	18	1,710	95	4000	85	110	220	0.33	22.5x35x1200		KS
QT5-6WKE	6	510	85	5700	85	110	220	0.12	22.5x35x300		KS
QT5-10WKE	10	910	91	5700	85	110	220	0.19	22.5x35x600		KS
QT5-14WKE	14	1,316	94	5700	85	110	220	0.26	22.5x35x900		KS
QT5-18WKE	18	1,746	97	5700	85	110	220	0.33	22.5x35x1200		KS, KE

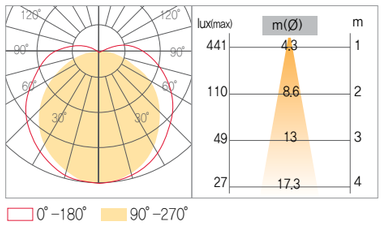
Product Specification (mm)





Photometric Data / Cone lux level

18W, 5700K, 110°



Application Site

Commercial spaces, Offices, Indoor spaces etc.

※Some of the above specifications may change to improve performance

04

LED LAMP
SMPS / BALLAST

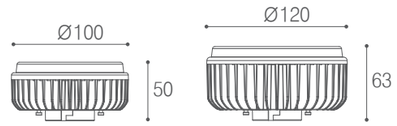
LED Lamp Series

SGX 12W, 19.5W

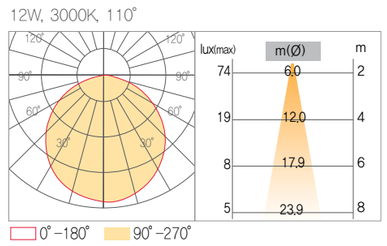
- Power Consumption : 12W / 19.5W
- Color Temperature : 3000K / 5000K
- Beam Angle : 110°
- Power Factor : ⟩0.90
- Operating Temperature : −20℃ ~ 40℃
- Storage Temperature : −25℃ ~ 65℃

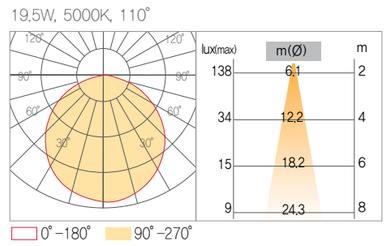
Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	∠	V	kg	T	C
SLSGX012-110LLF0	12	1,040	87	3000	80	110	220	0.28	Recessed type	KC
SLSGX012-110VF0	12	1,160	97	5000	80	110	220	0.28		KC
SLSGX019-110LLF0	19.5	1,800	92	3000	80	110	220	0.49		KC
SLSGX019-110VF0	19.5	1,920	98	5000	80	110	220	0.49		KC

Product Specification (mm)



Photometric Data / Cone lux level





Application Site

Airports, Schools, Restaurants, Hospitals, Indoor interior spaces etc.

※Some of the above specifications may change to improve performance

LED Lamp Series

AL 9W, 12W, 36W, 43W

- Housing : Polycarbonate (Diffuser/Clear)
- Power Consumption : 9W / 12W / 36W / 43W
- Color Temperature : 4000K / 5000K
- Beam Angle : 120° / 210°
- Power Factor : ⟩0.90
- Operating Temperature : −10℃ ~ 40℃
- Storage Temperature : −20℃ ~ 50℃
- 360,000 hours (25℃)

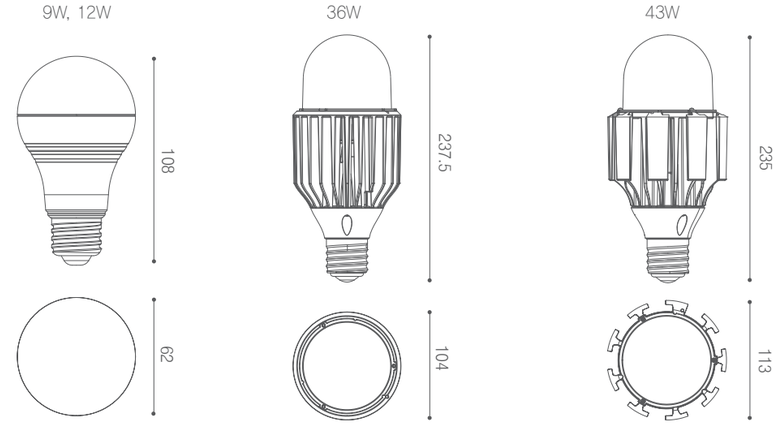
AL 9W / 12W

AL 36W
(Diffuser/Clear)

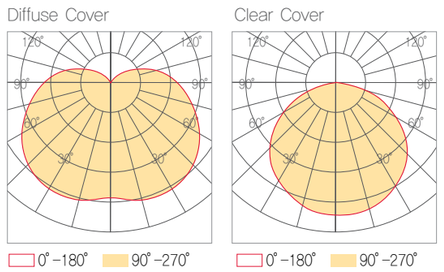
AL 43W
(Diffuser/Clear)

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra	°	V	kg	T	C
TBD	9	960	107	4000 / 5000	80	120	220	0.12	E26	KC
TBD	12	1,300	109	4000 / 5000	80	120	220	0.12	E26	KC
GBLAF363N3MG2	36	4,500/4,140(Diffuser) 4,680/4,320(Clear)	125/115 130/120	4000 / 5000 4000 / 5000	80	120, 210	220	0.81	E39	KC
GBLAF433N3MG2	43	5,160/4,950(Diffuser) 5,590/5,375(Clear)	120/115 130/125	4000 / 5000 4000 / 5000	80	120, 210	220	0.88	E39	KC

Product Specification (mm)



Photometric Data



Application Site

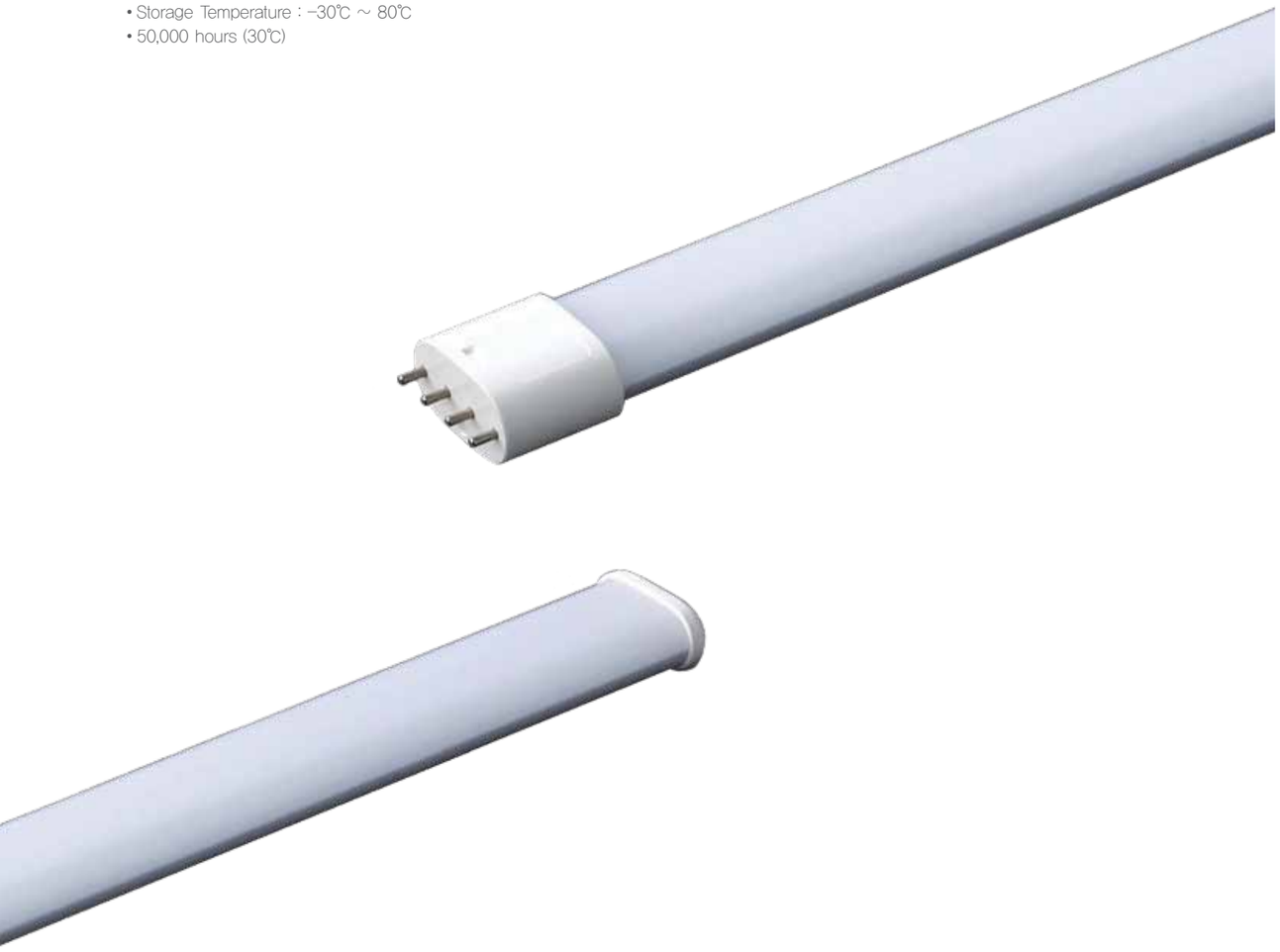
Factories, Industrial sites etc.

※Some of the above specifications may change to improve performance

LED Lamp Series

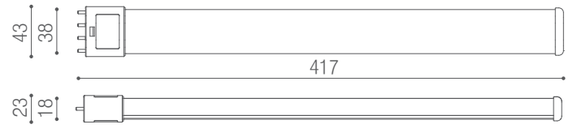
FPL 13.5W

- Housing : Aluminum
- Cover : Polycarbonate
- Power Consumption : 13.5W
- Color Temperature : 3000K / 5700K
- Beam Angle : 110°
- Operating Temperature : -20℃ ~ 50℃
- Storage Temperature : -30℃ ~ 80℃
- 50,000 hours (30℃)



Model No.	SMPS	Power Consumption	Luminous Flux	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight
No.		W	lm	K	Ra		V	
SLKPL013-110LLF0	SLPT-38014JS	11.5 SMPS included 13.5W	1,530	3000	>80	110	32 0.36A	0.16
SLKPL013-110NF0	SLPT-38027JD(2CH)		1,660	5700	>80	110		0.16

Product Specification (mm)



Applicable Product

LED Clean Room Luminaire

- Suitable for Clean Room
- Housing : Aluminum
- Cover : Polycarbonate(PC), Reflector 85%
- Socket : 2G11
- Operating Temperature : -20℃ ~ 50℃
- Storage Temperature : -30℃ ~ 80℃
- 50,000 hours (30℃)

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Cert.
No.	W	lm	lm/W	K	Ra		V		C
SLCRL0813K	108(13.5W x 8)	1,660	144	5700	80	110	100~240	38.95	KC

※Some of the above specifications may change to improve performance

LED Lamp Series

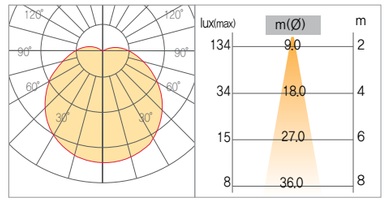
LT 16.8W

- Power Consumption : 16.8W
- Color Temperature : 5700K
- CRI : 80
- Beam Angle : 120°
- Operating Temperature : −20℃ ~ 50℃
- 50,000 hours (30℃)
- G13 base
- Size : Ø25.7 x 1198 (mm) / CAP Ø28

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Installation Type	Cert.
No.	W	lm	lm/W	K	Ra		V		T	C
SLFLK015-120NF0	14.6 SMPS included 16.8W	2,300	137	5700	80	120	220	0.31	G13 1200mm	KE

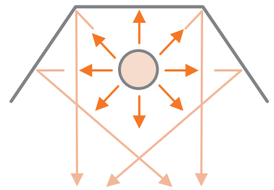
Photometric Data / Cone lux level

16.8W, 5700K, 120°



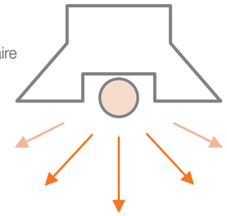
General Fluorescent Luminaire vs LED TUBE Luminaire

General Fluorescent Luminaire



- Directing the light of 360° light distribution by reflecting the luminaire
- Light loss by itself
- Light loss by instrument reflection (Persistent deepening)

LED TUBE Luminaire



- Possess its own beam angle
- Enable to widen beam angle
- Minimizing distortion of shade or reflector
- Less influence from dust and pollution
- Cutting-edge design even when turned off

Applied Product

※Some of the above specifications may change to improve performance

LED Lamp Series

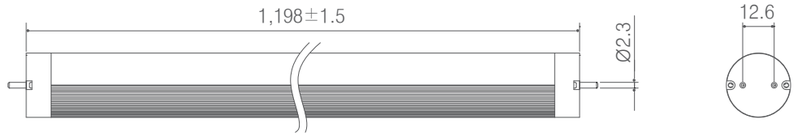
LTP 13.5W, 15.7W

- Power Consumption : 13.5W / 15.7W
- Color Temperature : 3000K / 5000K
- CRI : 80
- Beam Angle : 120°
- Power Factor : ⟩0.90
- Operating Temperature : −20℃ ~ 50℃
- 50,000 hours (30℃)
- G13 base

Model No.	Power Consumption	Luminous Flux	lm/W	CCT	(Typ.) CRI	Beam Angle	Input Voltage	(Including SMPS) Weight	Type
No.	W	lm	lm/W	K	Ra	°	V	kg	T
SLFLPA14-120xxF1	13.5	2,020	150	3000, 5000	80	120	100~240	0.35	Uni-directional type
SLFLPA16-120xxF1	15.7	2,330	148		80	120	100~240	0.35	
SLFLPB14-120xxF1	13.5	2,020	150		80	120	100~240	0.35	Duplex type
SLFLPB16-120xxF1	15.7	2,330	148		80	120	100~240	0.35	

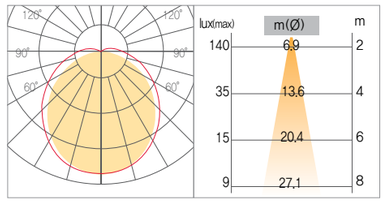
(Luminous Flux : Based on CCT 5000K)

Product Specification (mm)



Photometric Data / Cone lux level

16.2W, 5000K, 120°



Application Site

Manufacturing plants, Parking lots, Interior lighting, Commercial facilities etc.

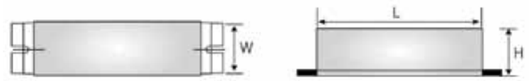
※Some of the above specifications may change to improve performance

SMPS Series

Classification	Image	SKCL Model No.	Power Consumption	Output Voltage	Output Current	Size(mm)	Certification	Remark
L-Tube SMPS		SLPT-29018KS	18W	27V Typical (22~29Vdc)	570mA	212 (L) x 33 (W) x 26 (H)	KC	L-Tube
FPL Lamp SMPS		SLPT-38014JS SLPT-38014CS	14W	32V Typical (26~36Vdc)	360mA	212 (L) x 33 (W) x 25 (H)	KS CCC	FPL Lamp
FPL Lamp SMPS		SLPT-38027JD SLPT-38027CD	27W	32V Typical (26~36Vdc)	360mA x 2CH	236 (L) x 38 (W) x 27 (H)	KS CCC	FPL Lamp
Flat Panel SMPS		SLPF-45040KS	40W	42V Typical (38~45Vdc)	850mA	236 (L) x 38 (W) x 27 (H)	KS	Flat Panel type
Water proof SMPS		SLPF-40036KS	25W ~ 36W	38V Typical (32~40Vdc)	600 ~ 820mA	192 (L) x 44 (W) x 32.3 (H)	KS, CB IP66	Security type
Water proof SMPS		SLPM-48060KS	40W ~ 60W	48V Typical (42~50Vdc)	0.8 ~ 1.1A	171 (L) x 62 (W) x 37.5 (H)	KS, IP65	Flood light type
Water proof SMPS		SLPH-48150IS SLPH-48120IS	150W 100W ~ 120W	45V Typical (39~50Vdc)	2.7 ~ 3.2A 2.0 ~ 2.6A	222 (L) x 68 (W) x 39.5 (H)	KS, IP67 PSE, CB	SLPH-48150KS IP65 model SLPH-48150IS IP67 model

※Some of the above specifications may change to improve performance

BALLAST Series



Suitable for FL Lamp

Power (W)	Lamp Qty.	Model	Specification	Color	Size L	Size W	Size H	Piece Distance
20W	1	DY120L	KS	White	160	57	34	147
		DY120LS	KS, Slim type	White	212	34	25	204
		DY120L(AY)	Sign Board, KS	White	160	57	34	147
	2	DY220L	KS	White	242	44	38	230
		DY220LS	KS, Slim type	White	250	32	26	240
		DY220L(AY)	Sign Board, KS	White	242	44	38	230
32W	1	DY132L	KS	White	160	57	34	147
		DY132LS	KS, Slim type	White	212	34	25	204
		DY132L(AY)	Sign Board, KS	White	160	57	34	147
	2	DY232L	KS	White	242	44	38	230
		DY232LS	KS, Slim type	White	250	32	26	240
		DY232L(AY)	Sign Board, KS	White	242	44	38	230

Suitable for FPL Lamp

Power (W)	Lamp Qty.	Model	Specification	Color	Size L	Size W	Size H	Piece Distance
18W	1	DY118PLS	KS, Slim type	White	212	34	25	204
	2	DY218PLS	KS, Slim type	White	250	32	26	240
24W	1	DY124PLS	KS, Slim type	White	212	34	25	204
	2	DY224PLS	KS, Slim type	White	250	32	26	240
36W	1	DY136PLS	KS, Slim type	White	212	34	25	204
	2	DY236PLS	KS, Slim type	White	250	32	26	240
55W	1	DY155PLS	KS, Slim type	White	212	34	25	204

Suitable for FL T-5 Lamp

Power (W)	Lamp Qty.	Model	Specification	Color	Size L	Size W	Size H	Piece Distance
14W	1	DY114S	Slim type	White	212	34	25	204
		D114LSST5	Super Slim type	White	305	24	16	298
	2	DY214NFS	CP, Slim type	White	310	31	24	294
21W	1	D121LSST5	Super Slim type	White	258	31	24	243
28W	1	DY128NS	Slim type	White	212	34	25	204
	2	D128LSST5	Super Slim type	White	305	24	16	298
		DY228NFS	CP, Slim type	White	310	31	24	294

Suitable for Down Lamp

Power (W)	Lamp Qty.	Model	Specification	Color	Size L	Size W	Size H	Piece Distance
13W	1	DY113NDE(S)	KC	White	127	47	33	117
	1	DY213NDE(S)	KC	White	127	47	33	117
18W	1	QBA118D	KS	White	127	47	33	117
	2	QBA228D	KS	White	127	47	33	117
26W	1	QBA126D	KS	White	127	47	33	117
	2	QBA226D	KS	White	127	47	33	117

Suitable for HAL Lamp

Power (W)	Lamp Qty.	Model	Specification	Color	Size L	Size W	Size H	Piece Distance
Below 50W	1	QC50H		White	90	34	30	85

※Some of the above specifications may change to improve performance