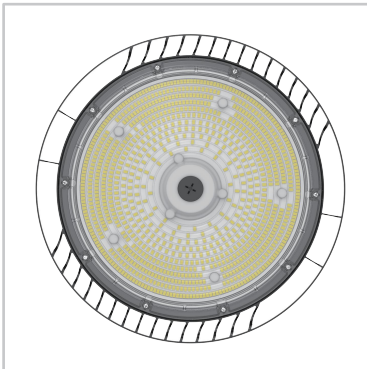# GOLDENLUX
Delivering Value to Lights

FR05-Series

KEY ADVANTAGES

- 2000lm/w ultra-high light efficiency
- Wattage from 100W to 200W optional
- Power Selectable (Optional)
- High energy savings compared to systems with traditional discharge lamps
- Robust design
- Emergency lighting with optional battery
- High visual comfort
- No hazardous materials
- Fast ROI thanks to long life span and reduced maintenance
- Compact housing optimised for heat dissipation and reduced dust accumulation
- Dedicated range of mounting accessories

TYPES OF APPLICATION

- CAR PARKS
- LARGE AREAS
- INDUSTRIAL HALLS & WAREHOUSES
- SPORT FACILITIES

CAR PARKS

LARGE AREAS

INDUSTRIAL HALLS & WAREHOUSES

SPORT FACILITIES

CE

RoHS COMPLIANT

IK09

IP65

5 YEARS WARRANTY
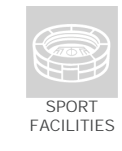
GENERAL INFORMATION

Driver included	Yes
CE mark	Yes
RoHS compliant	Yes
Safety features	Open circuit protection Short circuit protection Overvoltage protection
Testing standard	LM-79-19(all measurements in ISO17025 accredited laboratory)

HOUSING AND FINISH

Housing	Aluminium
Optic	Polycarbonate
Protector	Polycarbonate (with integrated lenses)
Housing finish	Electrostatic polyester powder coating
Standard colour(s)	RAL 9017 black
Tightness level	IP 65
Impact resistance	IK 09

OPERATING CONDITIONS

Operating temperature range (Ta)	-20°C to + 45°C
Operating Humidity	10-90%RH
Mounting Option	Loop Hanging
Warranty	5 years

PERFORMANCE

Power	100W/150W/200W
Efficacy	Up to 200lm/w (Ra70) Up to 190lm/w (Ra80)
Power Efficiency	≥93%
Start Time	≤0.2S
Warm-up time to 60%	0.5S

ELECTRICAL INFORMATION

Electrical class	Class I EU
Nominal voltage	120-277V │ 50/60Hz
Power factor (at full load)	0.9
Surge protection options (kV)	6KV-Line-Line 6KV-Line-Earth
Electromagnetic compatibility (EMC)	EN 55015:2019/A11:2020, EN 61000 3-2:2019, EN 61000-3-3:2013, EN 61547:2009, EN 62493:2015
Control protocol(s)	1-10V
Sensor	Motion sensor (optional)
Emergency	Optional auxiliary battery
Total Harmonic Distortion(THD)	IEC 61000-3-2 Class C <20%
Driver Type	Constant current(CC)

For fixed Class 1 luminaires, overvoltage protective devices which comply with IEC 61643-11 shall be disconnected from the circuit.

withstand voltage	1.5KV 60S 10mA

※Lamp switch must control L line or control L and N lines.

OPTICAL INFORMATION

LED Type	SMD2835
Beam Angle	60° / 90° / 120°
Recommended installation height	4m to 12m
Color Tolerance	Ra70 ≤7 Ra80 ≤5
LED colour temperature	3000K / 4000K / 5000K / 5700K / 6500K
Colour rendering index (CRI)	CRI>70 standard CRI>80 optional
Upward Light Output Ratio (ULOR)	0%

※Ra measurement tolerance is ±2.

LIFETIME OF THE LEDS @ TA 25°C

All configurations	
L70B50	>100,000h
L80B20	>50,000h
L90B10	>30,000h
Switching Cycles	>100,000 times

※To adjust the power and color temperature, the input power must be turned off.

FR05-SERIES | PERFORMANCE

GOLDENLUX

PREMIUM VERSION

POWER	LUMENS	EFFICACY
100W	20,000LM	200LM/W(Ra70)
	19,000LM	190LM/W(Ra80)
150W	30,000LM	200LM/W(Ra70)
	18,500LM	190LM/W(Ra80)
200W	40,000LM	200LM/W(Ra70)
	38,000LM	190LM/W(Ra80)

PRO VERSION

POWER	LUMENS	EFFICACY
100W	19,000LM	190LM/W(Ra70)
	18,000LM	180LM/W(Ra80)
150W	28,500LM	190LM/W(Ra70)
	27,000LM	180LM/W(Ra80)
200W	38,000LM	190LM/W(Ra70)
	36,000LM	180LM/W(Ra80)

STANDARD VERSION

POWER	LUMENS	EFFICACY
100W	17,000LM	170LM/W(Ra70)
	15,700LM	157LM/W(Ra80)
150W	25,500LM	170LM/W(Ra70)
	24,000LM	160LM/W(Ra80)
200W	34,000LM	170LM/W(Ra70)
	32,000LM	160LM/W(Ra80)

ECO VERSION

POWER	LUMENS	EFFICACY
100W	15,000LM	150LM/W(Ra70)
	14,000LM	140LM/W(Ra80)
150W	22,500LM	150LM/W(Ra70)
	21,000LM	140LM/W(Ra80)
200W	30,000LM	150LM/W(Ra70)
	28,000LM	140LM/W(Ra80)

※The Performance Data is tested base on 230VAC, 90° and 4000K for all versions
※Power Consumption Tolerance ±5% (Apply to all versions)
※Lumen Efficiency Tolerance ±5% (Apply to all versions)

PACKAGING

POWER	PACKAGE SIZE	QTY/CTN	SINGLE PIECE VOLUME	NET WEIGHT	GROSS WEIGHT	20GP	40HQ
100W	L285*W285*H165mm	1PCS/CTN	0.0134m³	1.4kg	1.9kg	2080pcs	5070pcs
150W	L310*W310*H165mm	1PCS/CTN	0.0159m³	1.6kg	2.1kg	1760pcs	4270pcs
200W	L355*W355*H165mm	1PCS/CTN	0.0207m³	1.8kg	2.6kg	1350pcs	3280pcs

LIGHT DISTRIBUTIONS

60°

90°

120°
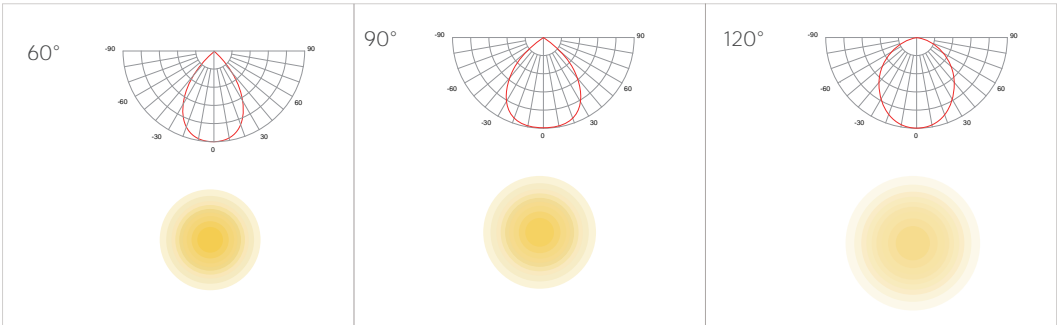
ACCESSORIES OPTIONAL

Universal Rotatable Bracket

Safety Chain
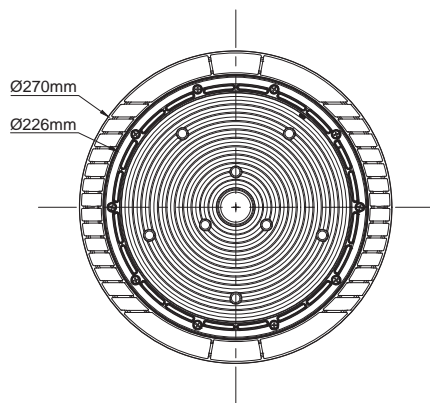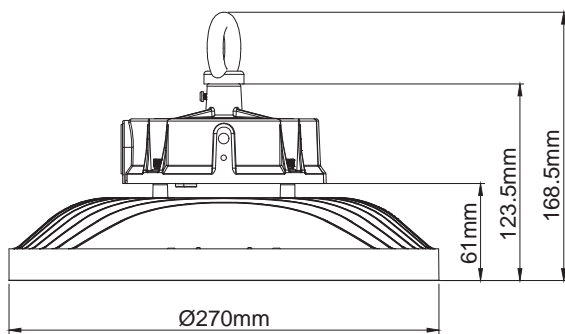
Motion Sensor

Philips Led Driver

Sosen Led Driver

Lifud Led Driver
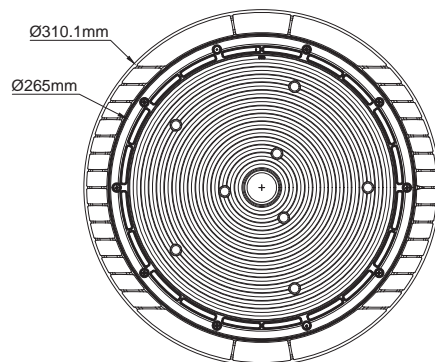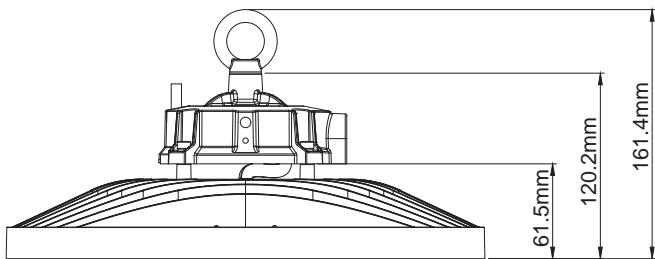
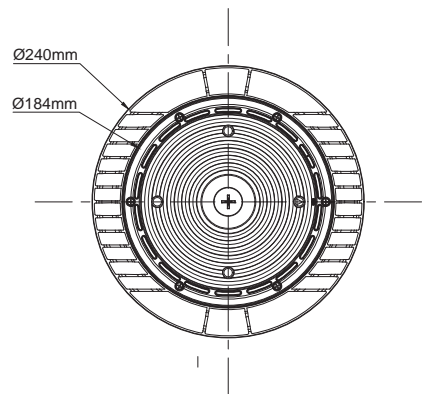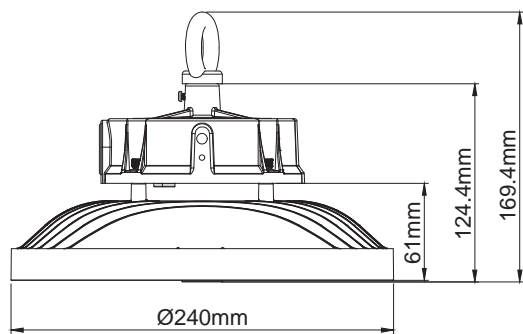⚠ Connecting the cable requires an IP65 Tightness level

100W

Ø240mm

Ø240mm
Ø184mm

168.5mm
123.5mm
61mm

150W

Ø270mm

Ø270mm
Ø226mm

168.5mm
123.5mm
61mm

200W

Ø310.1mm
Ø265mm

161.4mm
120.2mm
61.5mm

2-3/F Building 2, Bei Fang Yong Fa Industrial Park, Jincheng Road, Shajing Town, Bao'an District, Shenzhen. / www.goldenlux.cn
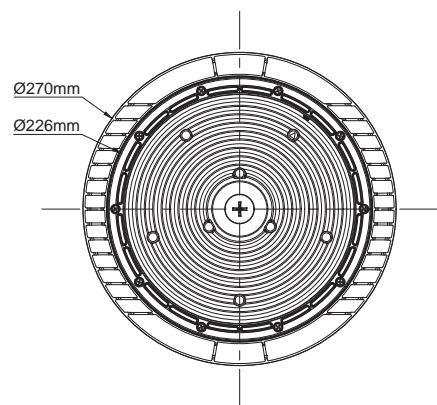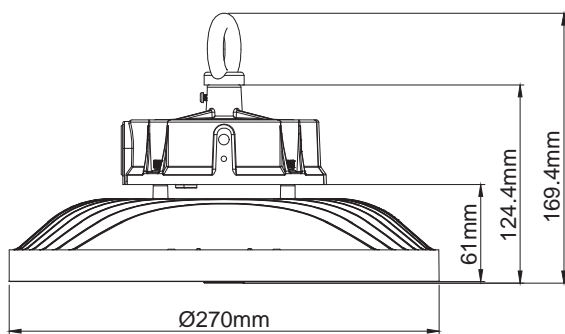
LED High Bay Light | 5

FR05-SERIES | DRAWING

GOLDENLUX

⚠ Connecting the cable requires an IP65 Tightness level

100W

Ø240mm
Ø184mm
169.4mm
124.4mm
61mm
Ø240mm

150W

Ø270mm
Ø226mm
169.4mm
124.4mm
61mm
Ø270mm

200W

Ø310.1mm
Ø265mm
179.3mm
161.4mm
120.2mm