GinoLED HO* Module E

*HO: High lumen output

Datasheet





Driver Box



The GinoLED is a high power LED module with integrated heat sink for optimal thermal management and tailored optical design. The GinoLED lightweight and easy assembly design make installation become much easier. Up to 146Lm/W high efficacy designed to reach more energy saving. GinoLED is an IP65 unit equipped with IP connector for easy installation. GinoLED E version is designed for good enough specification to fulfill customer basic requirements.

BENEFITS

- Tailored optical and thermal design
 - 60°x60° and 90°x90° lens design, adaptation to different mounting heights.
 - The high performance of GinoLED module is attributable to the omnidirectional nature of tree-like fins. Thanks to that, air streams are able to enter and exit from all directions.
- IP65/IK08 protection
 - Self-contained housing with heat sink, no extra protection is needed
- High energy efficiency
 - Up to 146Lm/W high efficacy*.
- Easy for assembly
 - Thanks for GinoLED integrated design, only few step to finish assembly.
- Long life time
 - 50,000hrs
- * Mentioned efficacy without driver power consumption.

APPLICATIONS

- Airport, Station, Factory
- Indoor Court, Exhibition Hall, Warehouse



SPECIFICATION (4000K & 6500K)

The typical values involved in this specification are under the following conditions:

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Product category	t₀-normal
GL-HO-E 80-XXX-LXXXXX	50 °C
GL-HO-E 120-XXX-LXXXXX	55 ℃
GL-HO-E 150-XXX-LXXXXX	60 °C
GL-HO-E 180-XXX-LXXXXX	60 °C

	Parameter	GinoLED HO Module E					
	raidilletei	GL-HO-E 80	GL-HO-E 120	GL-HO-E 150	GL-HO-E 180		
	Typical Module flux	11000 lm	16500 lm	20500 lm	25600 lm		
	Typical Module efficacy	143 Lm/W	143 Lm/W	146 Lm/W	143 Lm/W		
	Optical		60° x	€ 60°			
Light Output	Орнові		90° x	(90°			
Light Output	CCT		4000K & 6500K				
	SDCM		5	5			
	Typical CRI (Ra)		8	0			
	Lifetime(L70B50 @ t _p -normal)		50,000	hours			
	Typical input voltage	110V DC	165V DC	200V DC	256V DC		
	Typical input current	0.7 A	0.7 A	0.7 A	0.7 A		
	Module Power @(typical)	77W	116W	140W	179W		
Electrical		OSRAM OPTOTRONIC					
Liectrical		80W: OT 100/220240/1A4 1DIMA P7					
	Recommended Driver	120W: OT 150/220240/1A4 1DIMA P7					
		150W: OT 150/220240/1A4 1DIMA P7					
		180W: OT 200/220240/1A4 1 DIMA P7					
	Dimension	Ф296mmL x 204mmH		Ф339mmL x 233mmH			
	Difficusion	(Include D	river box)	(Include [Driver box)		
Mechanical	Mounting		Suspended / w	vall mounted**			
	Optics	Polycarbonate lens					
	Module Weight	2.1	kg	2.8	3 kg		
Temperature	Operating temp. range (ta)*		-30	45°C			
remperature	Storage temp. range*	ge* -40 80°C					
Standard	IP Rating	IP65					
Compliance	IK Rating	IK08					
	Certification	CE/CB/CQC Ready by Apr.2019					

IP65 IK08





Due to the special conditions of manufacturing processes of LED, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product. Actual lumen output can be varied due to many factors like lamp factor of LED, input current/voltage, thermal conditions, many other optical tolerance, and measurement tolerance. The data above is for reference only. Please contact Osram sales or marketing staff for advice if customers has any specific demand on particular parameters.

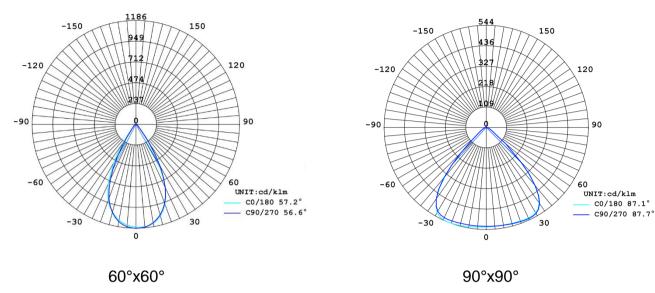


Tolerance of measurements for the color rendering Ra is ±2.

* Exceeding maximum ratings for operation and storage temperature will reduce expected life time or destroy the LED module. The temperature of the LED module needs to be measured at the t_c-point according to EN60598-1 in a thermally constant status with a temperature sensor or a temperature sensitive label.

** Additional accessories are needed for Wall mounted, please contact with sales to get more information.

PHOTOMETRICS



Due to the special conditions of manufacturing processes of LED, the polar candela distribution and distance illuminance can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product. The actual data may differ from the typical data. Tolerance of measurements for beam angle is ±10°.

Environmental and Application Conditions

Ambient temperature range (t _a on free air)	-30~45°C		
	GL-HO-E 80	70°C	
	GL-HO-E 120	75°C	
erating (case) temperature range (t _{c max}) rage temperature range ating ch. impact protection etime @ t _p -normal (L70/B50)	GL-HO-E 150	80°C	
	GL-HO-E 180	80℃	
Storage temperature range	-40~+80°C		
IP rating	IP65		
Mech. impact protection	IK08		
Lifetime @ t _p -normal (L70/B50)	50,000hrs		
	GL-HO-E 80	2.1KG	
	GL-HO-E 120	2.110	
Net weight	GL-HO-E 150	2.8KG	
	GL-HO-E 180	2.510	

Standards / Normative Requirements

Eye security	IEC 62778
Flammability	IEC 60598-1
Safety Requirements	EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	EN 55015
EMC / immunity	EN 61547
EMC limits for harmonic current emissions	IEC 61000-3-2
EMC limitation of voltage changes, voltage fluctuations and flicker	IEC 61000-3-3
CE Mark	Yes
Application in Class I	Yes

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Electrical parameters

Driving mode	Constant current			
	GL-HO-E 80	99-121 VDC @700mA		
	GL-HO-E 120	149-182 VDC @700mA		
Input voltage range	GL-HO-E 150	180-220 VDC @700mA		
	GL-HO-E 180	230-282 VDC @700mA		
Input current range	GL-HO-E 80	630~770 mA		
	GL-HO-E 120	630~770 mA		
	GL-HO-E 150	630~770 mA		
	GL-HO-E 180	630~770 mA		
	GL-HO-E 80	69-85 W @700mA		
Power Range	GL-HO-E 120	104-128 W @700mA		
	GL-HO-E 150	126-154 W @700mA		
	GL-HO-E 180	161-197 W @700mA		

CCT / Color and Color rendering parameters

Product	Min. CCT (k)	Max. CCT (k)	Cen	D-		
			CIE X	CIE Y	Ra	
GL-HO-E 80-840 L60x60 GL-HO-E 120-840 L60x60 GL-HO-E 150-840 L60x60 GL-HO-E 180-840 L60x60 GL-HO-E 80-840 L90X90 GL-HO-E 120-840 L90X90 GL-HO-E 150-840 L90X90 GL-HO-E 180-840 L90X90	3700K	4250K	0.3818	0.3797	. 00	
GL-HO-E 80-865 L60x60 GL-HO-E 120-865 L60x60 GL-HO-E 150-865 L60x60 GL-HO-E 180-865 L60x60 GL-HO-E 80-865 L90x90 GL-HO-E 120-865 L90x90 GL-HO-E 150-865 L90x90 GL-HO-E 180-865 L90x90	6000K	7000K	0.3123	0.3282	>80	

- Remarks:

 1. Test by t_p-normal condition;
 2. Tolerance of measurements for the color rendering Ra is ±2;
 3. Tolerance of measurements for the Chromaticity Coordinate is ±0.005; the tolerance of CCT should be calculated accordingly.



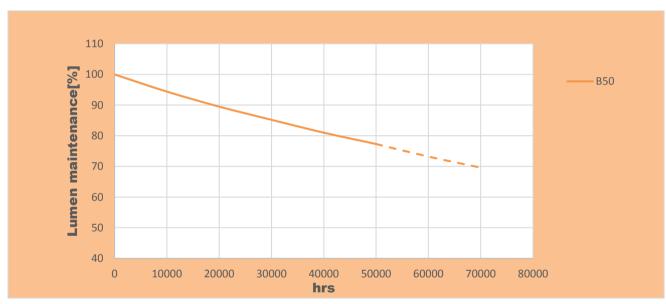
Brightness parameters

	2	Lumen Flux(Lm)			
Product	Current(mA)	Min.	Max.		
GL-HO-E 80	700	9900	12100		
GL-HO-E 120	700	14850	18150		
GL-HO-E 150	700	18450	22550		
GL-HO-E 180	700	23040	28160		

Remarks:

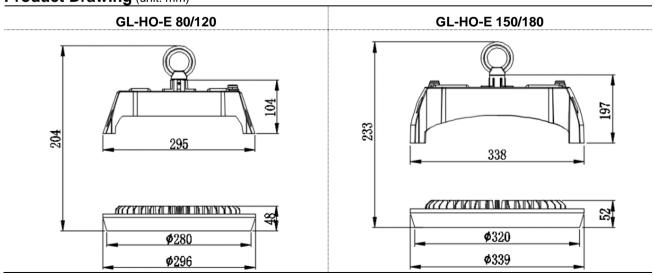
- Ranking at tp-normal condition.
- Exceeding maximum ratings for operating and storage temperature will reduce expected life time or destroy the LED Module.
- The temperature of the LED module must be measured at the tc-point according to EN60598-1 in thermal stable status. Exact location of tc point please see "safety information".
- Due to the special conditions of the manufacturing processes of LED, the typical data or calculated correlations of technical parameters can only reflect statistical figures. These do not necessarily correspond to the actual parameters of each single product, which could differ from the typical data and calculated correlations or the typical characteristic line. If requested, e.g. because of technical improvements, these typ. data will be changed without any further notice.
- Tolerance of measurement of the luminous flux is ±5%.

Lumen maintenance



Remark: Lumen maintenance at tp-normal conditions. Lumen maintenance value base on available LM80 LED data (9000hrs).

Product Drawing (unit: mm)



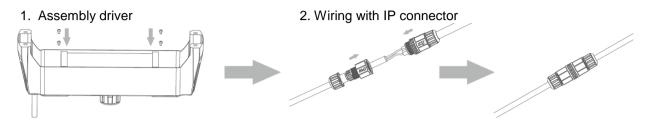
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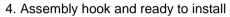


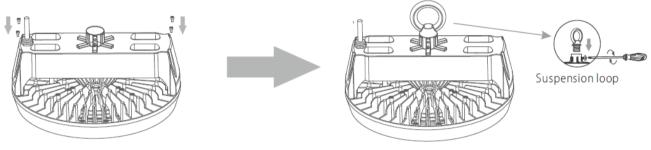
Sales & Technical Support **Application:**

GinoLED HO module provide IP65 connector can easy be installed with IP67 driver, total system meet IP65 requirement.

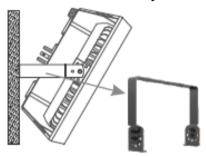


4. Assembly driver box on the module

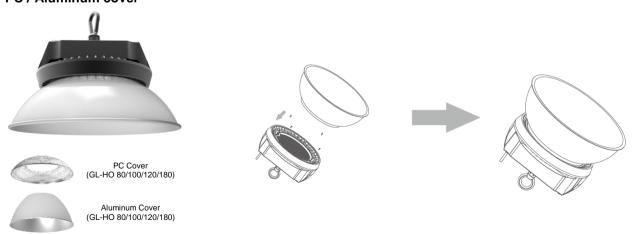




Other assembly accessories Wall mounted accessory*



PC / Aluminum cover*



* Additional accessories are needed for Wall mounted, please contact with sales to get more information.

^{**}Additional accessories are needed for reflector cover, procurement required, please contact with sales to get more information.



Order Number

Model	EAN10	S-unit	EAN40	S-unit
GL-HO-E 80-840 L60X60	TBD	1	TBD	1
GL-HO-E 80-840 L90X90	TBD	1	TBD	1
GL-HO-E 80-865 L60X60	TBD	1	TBD	1
GL-HO-E 80-865 L90X90	TBD	1	TBD	1
GL-HO-E 120-840 L60X60	TBD	1	TBD	1
GL-HO-E 120-840 L90X90	TBD	1	TBD	1
GL-HO-E 120-865 L60X60	TBD	1	TBD	1
GL-HO-E 120-865 L90X90	TBD	1	TBD	1
GL-HO-E 150-840 L60X60	TBD	1	TBD	1
GL-HO-E 150-840 L90X90	TBD	1	TBD	1
GL-HO-E 150-865 L60X60	TBD	1	TBD	1
GL-HO-E 150-865 L90X90	TBD	1	TBD	1
GL-HO-E 180-840 L60X60	TBD	1	TBD	1
GL-HO-E 180-840 L90X90	TBD	1	TBD	1
GL-HO-E 180-865 L60X60	TBD	1	TBD	1
GL-HO-E 180-865 L90X90	TBD	1	TBD	1

Matching Driver Order Number

		Driver order number			
Module name	Matching driver model name	EAN-010	S- unit	EAN-40	S- unit
GL-HO-E 80-840 L60X60	OT 100/220-240/1A4 1DIMA P7	4052899495036	1	4052899495043	10
GL-HO-E 80-840 L90X90	OT 100/220-240/1A4 1DIMA P7	4052899495036	1	4052899495043	10
GL-HO-E 80-865 L60X60	OT 100/220-240/1A4 1DIMA P7	4052899495036	1	4052899495043	10
GL-HO-E 80-865 L90X90	OT 100/220-240/1A4 1DIMA P7	4052899495036	1	4052899495043	10
GL-HO-E 120-840 L60X60	OT 150/220-240/1A4 1DIMA P7	4052899495050	1	4052899495067	10
GL-HO-E 120-840 L90X90	OT 150/220-240/1A4 1DIMA P7	4052899495050	1	4052899495067	10
GL-HO-E 120-865 L60X60	OT 150/220-240/1A4 1DIMA P7	4052899495050	1	4052899495067	10
GL-HO-E 120-865 L90X90	OT 150/220-240/1A4 1DIMA P7	4052899495050	1	4052899495067	10
GL-HO-E 150-840 L60X60	OT 150/220-240/1A4 1DIMA P7	4052899495050	1	4052899495067	10
GL-HO-E 150-840 L90X90	OT 150/220-240/1A4 1DIMA P7	4052899495050	1	4052899495067	10
GL-HO-E 150-865 L60X60	OT 150/220-240/1A4 1DIMA P7	4052899495050	1	4052899495067	10
GL-HO-E 150-865 L90X90	OT 150/220-240/1A4 1DIMA P7	4052899495050	1	4052899495067	10
GL-HO-E 180-840 L60X60	OT 200/220-240/1A4 1DIMA P7	4052899495074	1	4052899495081	10
GL-HO-E 180-840 L90X90	OT 200/220-240/1A4 1DIMA P7	4052899495074	1	4052899495081	10
GL-HO-E 180-865 L60X60	OT 200/220-240/1A4 1DIMA P7	4052899495074	1	4052899495081	10
GL-HO-E 180-865 L90X90	OT 200/220-240/1A4 1DIMA P7	4052899495074	1	4052899495081	10

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Safety information

- ★ The LED module itself and all its components may not be mechanical stressed.
- ★ Assembly must not damage or destroy conducting paths on the circuit board.
- ★ To avoid mechanical damage to the connecting cables, the module should be attached securely to the fixture. Heavy vibration should be avoided.
- ★ Installation of LED modules with (power supplies) needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installation.
- ★ Please ensure that the power supply is of adequate power to operate the total load.
- ★ Please ensure that the power supply with correct output parameters (driving mode, voltage, current) for LED module.
- ★ Pay attention to standard ESD precautions when installing the module.
- ★ If surge protection structure not within power supplier, a lightening protector should be needed additionally for outdoor application.

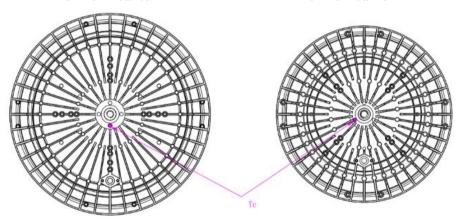




- ★ Higher t_c application is not recommended, under the condition of higher than t_{c max}, the product life is shortened.
- ★ t_c/t_p location as below:



GL-HO-E 80/120



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