

## GinoLED HO Module ECO

LED modules for street lighting



### Product family features

- Available with beam angle: 60°×60° and 90°×90°
- Available with color temperature: 4,000 K, 6,500 K
- Color rendering index  $R_a$ : 80
- Impact resistance: IK08
- Type of protection: IP65
- Lifetime (L70/B50): 50,000 h
- Operating temperature range: -30...45 °C
- Certificates: CE, CB, CQC
- Lifetime (L70/B50) for GL-HO 80: 50,000 h (temperature at  $T_p = 50$  °C)
- Lifetime (L70/B50) for GL-HO 120: 50,000 h (temperature at  $T_p = 55$  °C)
- Lifetime (L70/B50) for GL-HO 150/180: 50,000 h (temperature at  $T_p = 60$  °C)

### Product family benefits

- High module efficacy: up to 146 lm/W
- Integrated heat sink for optimal thermal management and tailored optical design
- Light weight design for easy installation

### Areas of application

- Airports, stations and factories
- Indoor courts, exhibition halls, warehouses



## Product family datasheet

### Technical data

Product description	Electrical data			Photometrical data	
	Nominal current	Type of current	On-mode power	Energy consumption in on-mode	Luminous efficacy
GL-HO-E 180-840 L60X60	0.7 A	DC			143 lm/W
GL-HO-E 180-840 L90X90	0.7 A	DC			143 lm/W
GL-HO-E 180-865 L60X60	0.7 A	DC			143 lm/W
GL-HO-E 180-865 L90X90	0.7 A	DC			143 lm/W
GL-HO-E 150-840 L60X60	0.7 A	DC	140 W	140 kWh/1000h	146 lm/W
GL-HO-E 150-840 L90X90	0.7 A	DC	140 W	140 kWh/1000h	146 lm/W
GL-HO-E 150-865 L60X60	0.7 A	DC			146 lm/W
GL-HO-E 150-865 L90X90	0.7 A	DC			146 lm/W
GL-HO-E 80-840 L60X60	0.7 A	DC	77 W	77 kWh/1000h	143 lm/W
GL-HO-E 80-840 L90X90	0.7 A	DC	77 W	77 kWh/1000h	143 lm/W
GL-HO-E 80-865 L60X60	0.7 A	DC			143 lm/W
GL-HO-E 80-865 L90X90	0.7 A	DC			143 lm/W
GL-HO-E 120-840 L60X60	0.7 A	DC			143 lm/W
GL-HO-E 120-840 L90X90	0.7 A	DC			143 lm/W
GL-HO-E 120-865 L60X60	0.7 A	DC			143 lm/W
GL-HO-E 120-865 L90X90	0.7 A	DC			143 lm/W

Product description	Correlated color temperature CCT	Peak luminous intensity	Colour consistency (McAdam ellipses)	Useful luminous flux
GL-HO-E 180-840 L60X60				
GL-HO-E 180-840 L90X90				
GL-HO-E 180-865 L60X60				
GL-HO-E 180-865 L90X90				
GL-HO-E 150-840 L60X60	4000	24799	5	17069
GL-HO-E 150-840 L90X90	4000	11722	5	19106
GL-HO-E 150-865 L60X60				
GL-HO-E 150-865 L90X90				
GL-HO-E 80-840 L60X60	4000	13307	3	9883
GL-HO-E 80-840 L90X90	4000	6290	3	10730
GL-HO-E 80-865 L60X60				
GL-HO-E 80-865 L90X90				
GL-HO-E 120-840 L60X60				
GL-HO-E 120-840 L90X90				
GL-HO-E 120-865 L60X60				
GL-HO-E 120-865 L90X90				

## Product family datasheet

Product description	Dimensions & weight				Temperatures & operating conditions
	Product weight	Width	Length	Height	Temperature range in operation at Tc point
GL-HO-E 180-840 L60X60	2800.00 g				-30...45 °C
GL-HO-E 180-840 L90X90	2800.00 g				-30...45 °C
GL-HO-E 180-865 L60X60	2800.00 g				-30...45 °C
GL-HO-E 180-865 L90X90	2800.00 g				-30...45 °C
GL-HO-E 150-840 L60X60	2100.00 g	296 mm	296 mm	204 mm	-30...45 °C
GL-HO-E 150-840 L90X90	2100.00 g	296 mm	296 mm	204 mm	-30...45 °C
GL-HO-E 150-865 L60X60	2100.00 g				-30...45 °C
GL-HO-E 150-865 L90X90	2100.00 g				-30...45 °C
GL-HO-E 80-840 L60X60	2100.00 g	296 mm	296 mm	204 mm	-30...45 °C
GL-HO-E 80-840 L90X90	2100.00 g	296 mm	296 mm	204 mm	-30...45 °C
GL-HO-E 80-865 L60X60	2100.00 g				-30...45 °C
GL-HO-E 80-865 L90X90	2100.00 g				-30...45 °C
GL-HO-E 120-840 L60X60	2100.00 g				-30...45 °C
GL-HO-E 120-840 L90X90	2100.00 g				-30...45 °C
GL-HO-E 120-865 L60X60	2100.00 g				-30...45 °C
GL-HO-E 120-865 L90X90	2100.00 g				-30...45 °C

## Product family datasheet

Product description	Temperature range at storage	Lifespan		Certificates & standards	
		Lifespan	Lumen maintenance factor LMF	Type of protection	Standards
GL-HO-E 180-840 L60X60	-40...80 °C	50000 h <sup>1)</sup>		IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3
GL-HO-E 180-840 L90X90	-40...80 °C	50000 h <sup>1)</sup>		IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3
GL-HO-E 180-865 L60X60	-40...80 °C	50000 h <sup>1)</sup>		IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3
GL-HO-E 180-865 L90X90	-40...80 °C	50000 h <sup>1)</sup>		IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3
GL-HO-E 150-840 L60X60	-40...80 °C	50000 h <sup>1)</sup>	96	IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3
GL-HO-E 150-840 L90X90	-40...80 °C	50000 h <sup>1)</sup>	96	IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3
GL-HO-E 150-865 L60X60	-40...80 °C	50000 h <sup>1)</sup>		IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3
GL-HO-E 150-865 L90X90	-40...80 °C	50000 h <sup>1)</sup>		IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3

## Product family datasheet

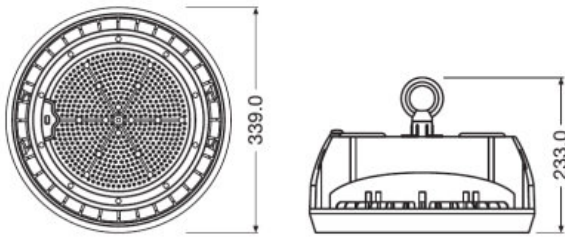
Product description	Temperature range at storage	Lifespan		Certificates & standards	
		Lifespan	Lumen maintenance factor LMF	Type of protection	Standards
GL-HO-E 80-840 L60X60	-40...80 °C	50000 h <sup>1)</sup>	96	IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3
GL-HO-E 80-840 L90X90	-40...80 °C	50000 h <sup>1)</sup>	96	IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3
GL-HO-E 80-865 L60X60	-40...80 °C	50000 h <sup>1)</sup>		IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3
GL-HO-E 80-865 L90X90	-40...80 °C	50000 h <sup>1)</sup>		IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3
GL-HO-E 120-840 L60X60	-40...80 °C	50000 h <sup>1)</sup>		IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3
GL-HO-E 120-840 L90X90	-40...80 °C	50000 h <sup>1)</sup>		IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3
GL-HO-E 120-865 L60X60	-40...80 °C	50000 h <sup>1)</sup>		IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3
GL-HO-E 120-865 L90X90	-40...80 °C	50000 h <sup>1)</sup>		IP65	Acc. to IEC 62778/Acc. to IEC 60598-1/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3

## Product family datasheet

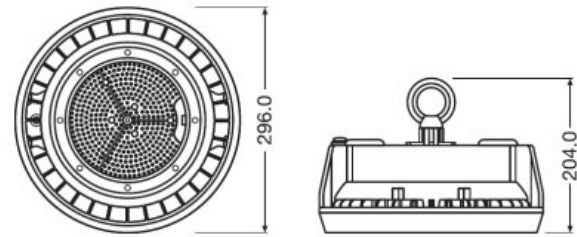
Product description	Energy efficiency class	Logistical data
		Commodity code
GL-HO-E 180-840 L60X60		940540999000
GL-HO-E 180-840 L90X90		940540999000
GL-HO-E 180-865 L60X60		940540399000
GL-HO-E 180-865 L90X90		940540399000
GL-HO-E 150-840 L60X60	D	940540999000
GL-HO-E 150-840 L90X90	D	940540999000
GL-HO-E 150-865 L60X60		940540399000
GL-HO-E 150-865 L90X90		940540399000
GL-HO-E 80-840 L60X60	D	940540999000
GL-HO-E 80-840 L90X90	D	940540999000
GL-HO-E 80-865 L60X60		940540399000
GL-HO-E 80-865 L90X90		940540399000
GL-HO-E 120-840 L60X60		940540399000
GL-HO-E 120-840 L90X90		940540399000
GL-HO-E 120-865 L60X60		940540399000
GL-HO-E 120-865 L90X90		940540399000

<sup>1)</sup> L70/B50 at T<sub>p</sub> normal

## Product family datasheet



Line drawing of GINO G2 & E Version



Line drawing of GINO G2 & E Version

### Application advice

For more detailed application information and graphics please see product datasheet.

### Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172051996	GL-HO-E 180-840 L60X60	Shipping carton box 1	402 mm x 402 mm x 214 mm	34.58 dm <sup>3</sup>	3770.00 g
4062172052016	GL-HO-E 180-840 L90X90	Shipping carton box 1	402 mm x 402 mm x 214 mm	34.58 dm <sup>3</sup>	3770.00 g
4062172052030	GL-HO-E 180-865 L60X60	Shipping carton box 1	402 mm x 402 mm x 214 mm	34.58 dm <sup>3</sup>	3770.00 g
4062172052054	GL-HO-E 180-865 L90X90	Shipping carton box 1	402 mm x 402 mm x 214 mm	34.58 dm <sup>3</sup>	3770.00 g
4062172051897	GL-HO-E 150-840 L60X60	Shipping carton box 1	362 mm x 362 mm x 189 mm	24.77 dm <sup>3</sup>	2896.00 g
4062172051910	GL-HO-E 150-840 L90X90	Shipping carton box 1	362 mm x 362 mm x 189 mm	24.77 dm <sup>3</sup>	2896.00 g
4062172051934	GL-HO-E 150-865 L60X60	Shipping carton box 1	362 mm x 362 mm x 189 mm	24.77 dm <sup>3</sup>	2896.00 g
4062172051958	GL-HO-E 150-865 L90X90	Shipping carton box 1	362 mm x 362 mm x 189 mm	24.77 dm <sup>3</sup>	2896.00 g
4062172051736	GL-HO-E 80-840 L60X60	Shipping carton box 1	362 mm x 362 mm x 189 mm	24.77 dm <sup>3</sup>	2896.00 g

## Product family datasheet

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### Logistical Data

4062172051750	GL-HO-E 80-840 L90X90	Shipping carton box 1	362 mm x 362 mm x 189 mm	24.77 dm <sup>3</sup>	2896.00 g
4062172051774	GL-HO-E 80-865 L60X60	Shipping carton box 1	362 mm x 362 mm x 189 mm	24.77 dm <sup>3</sup>	2896.00 g
4062172051798	GL-HO-E 80-865 L90X90	Shipping carton box 1	362 mm x 362 mm x 189 mm	24.77 dm <sup>3</sup>	2896.00 g
4062172051811	GL-HO-E 120-840 L60X60	Shipping carton box 1	362 mm x 362 mm x 189 mm	24.77 dm <sup>3</sup>	2896.00 g
4062172051835	GL-HO-E 120-840 L90X90	Shipping carton box 1	362 mm x 362 mm x 189 mm	24.77 dm <sup>3</sup>	2896.00 g
4062172051859	GL-HO-E 120-865 L60X60	Shipping carton box 1	362 mm x 362 mm x 189 mm	24.77 dm <sup>3</sup>	2896.00 g
4062172051873	GL-HO-E 120-865 L90X90	Shipping carton box 1	362 mm x 362 mm x 189 mm	24.77 dm <sup>3</sup>	2896.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

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### Disclaimer

- Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.