

# ERS

DATA SHEET



## Product information

The GE ERS LED Scalable fixtures provide optimal illumination for both local and major roadways. Preserving the aesthetic look of traditional roadway fixtures, GE balances the technical needs of a sophisticated LED system with the functional demands of an outdoor fixture facing extreme weather conditions.

GE's advanced LED optical design offers hundreds of photometric options to meet your precise lighting requirements, while delivering reduced glare and improved light control. The refined thermal management system incorporates a sleek and robust heat sink directly into the fixture to ensure maximum heat transfer and long LED life. This reliable system offers more than 12 years of service life to reduce maintenance frequency and expense, based on a 50,000 hours life.

## Structures and materials

**Housing:** die cast aluminum housing. A modern design preserving the aesthetic look of traditional roadway head fixtures incorporates the heat sink directly into the unit ensuring maximum heat transfer and long LED life.

Corrosion resistant polyester powder painted, minimum 2.0 mm thickness.

**Standard color:** gray. All RAL and custom colors available on request.

## Electrical and gear compartment

120-277V, system power factor is >90% and THD <20%, integral surge protection.

## Optics

Structured LED array for optimized roadway photometric distribution.

ERS light engine consisting of scalable reflective technology designed to optimize application efficiency and minimize glare.

Reverse facing light engine options available. Utilizes high brightness LEDs, 70 CRI at 4000K & 5700K typical. LM-79 tests and reports are performed in accordance with IESNA standards.

## Maintenance

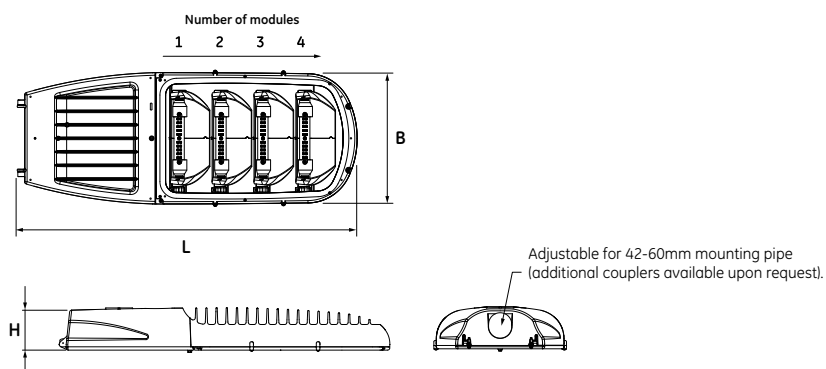
System rating: Reported L85 (9K) > 50,000 hours at 25°C, Projected L70 (9K) > 150,000 hours at 25°C.

## Installation

Available in European Electrical Class I.

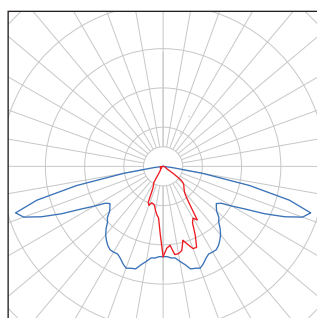


## Dimensions [mm]

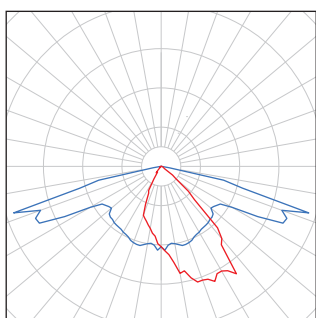


Number of modules	Size (LxWxH) [mm]
1 module	542x368x114
2 modules	659x368x114
3 modules	947x380x114
4 modules	947x380x114

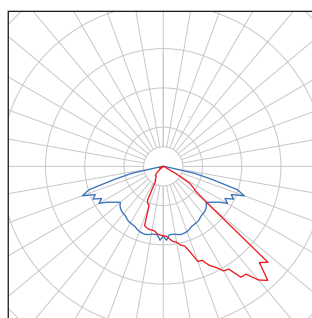
## Photometric data



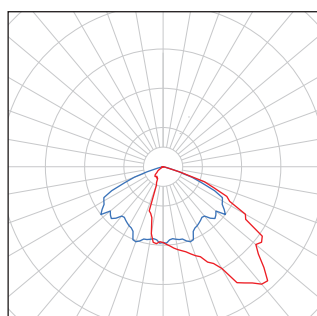
ERS1 / Extra Narrow Asymmetric Medium (CXAX)



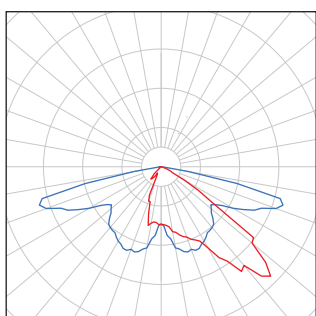
ERS2 / Narrow Asymmetric Medium (HXBX)



ERS3 / Asymmetric Short (NXCX)



ERS4 / Asymmetric Forward Very Short (TXDX)



ERS4 / Asymmetric Medium (TXEX)

Additional photometric files available on website.

## Specifications

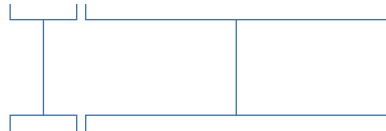
Weight [kg]	ERS 1 module: 9.07-11.34 ERS 2 module: 11.34-13.15	ERS 3 module: 18.14-20.87 ERS 4 module: 18.14-20.87
Side surface [m <sup>2</sup> ]	ERS 1 module: 0.046m <sup>2</sup> ERS 2 module: 0.065m <sup>2</sup>	ERS 3 module: 0.093m <sup>2</sup> ERS 4 module: 0.093m <sup>2</sup>
Driver	50/60Hz 120-277V. Electronic, programmable and dimmable (0-10V and DALI). ERS 1 and 2 module includes 1 electronic driver, ERS 3 and 4 module has 2 drivers.	
System consumption	220-240 / 43-258W	
Reflector	Five different reflectors available	
Protection degree	Optical: IP66 Electrical: IP44 Electronic driver: IP66	
Ambient Operating Temperature [°C]	-40 to +50	
Storage Temperature [°C]	-40 to +80	
Regulations	Directive 2004/108/EC, 2006/95/EC, 2011/65/EC.	

# Ordering Number Logic

Scalable Head (ERS1)

**E R S 1 - 0 - - - - 5 - - - - 1 - G R A Y - - - -**

Product ID	Voltage	Opt. Code	Photometric Type	Drive Current	LED Color Temp.	PE Function*	Color	Options
E = ERS	0=120-277		AX = Extra Narrow Asymmetric (medium)	5 = 525mA*	40 = 4000K	1 = none	GRAY = gray	043 = IEC with programmable dimming driver, special fusing and IP44 rating
R = Roadway			BX = Narrow Asymmetric (medium)		57 = 5700K			
S = Scalable			CX = Asymmetric (short)					
1 = Optical Assembly			DX = Asymmetric Forward (very short)					045 = IEC with programmable dimming driver and IP44 rating
			EX = Asymmetric (medium)					



Opt. Code	Photometric Type	Typical Initial Lumens		Typical System Wattage	IES File Numbers	
		4000K	5700K		4000K	5700K
AX		3100	3300	43	454886	454889
BX	AX	4100	4400	54	454887	454890
CX		5100	5500	67	454888	454891
AX		3300	3400	43	454669	454668
BX	BX	4300	4600	54	454670	454667
CX		5300	5700	67	454659	454666
AX		3200	3400	43	454662	454663
BX	CX	4200	4500	54	454661	454665
CX		5200	5600	67	454660	454665
AX		3300	3500	43	454892	454895
BX	DX	4200	4600	54	454893	454896
CX		5300	5700	67	454894	454897
AX		3000	3200	43	454653	454644
BX	EX	4000	4300	54	454652	454645
CX		5000	5400	67	454651	454646

\*PE Function: Photo Electric sensors are not available.

# Ordering Number Logic

Scalable Head (ERS2)

**E R S 2 - 0 - - - - 5 - - - - 1 - G R A Y - - - -**

Product ID	Voltage	Opt. Code	Photometric Type	Drive Current	LED Color Temp.	PE Function*	Color	Options
E = ERS	0=120-277		AX = Extra Narrow Asymmetric (medium)	5 = 525mA*	40 = 4000K	1 = none	GRAY = gray	043 = IEC with programmable dimming driver, special fusing and IP44 rating
R = Roadway			BX = Narrow Asymmetric (medium)		57 = 5700K			
S = Scalable			CX = Asymmetric (short)					
2 = Optical Assembly			DX = Asymmetric Forward (very short)					045 = IEC with programmable dimming driver and IP44 rating
			EX = Asymmetric (medium)					



Opt. Code	Photometric Type	Typical Initial Lumens		Typical System Wattage	IES File Numbers	
		4000K	5700		4000K	5700K
DX		6000	6500	82	454898	454903
EX		7000	7500	94	454899	454904
FX	AX	8000	8600	106	454900	454905
GX		9000	9700	118	454901	454906
HX		10000	10800	130	454902	454907
DX		6300	6800	82	454684	454683
EX		7300	7900	94	454685	454683
FX	BX	8400	9000	106	454686	454681
GX		9400	10100	118	454687	454680
HX		10500	11300	130	454688	454643
DX		6200	6700	82	454675	454674
EX		7200	7800	94	454676	454673
FX	CX	8300	8900	106	454677	454672
GX		9300	10000	118	454678	454671
HX		10300	11100	130	454679	454641
DX		6300	6800	82	454908	454913
EX		7300	7900	94	454910	454914
FX	DX	8400	9000	106	454911	454915
GX		9400	10100	118	454912	454916
HX		10400	11200	130	454913	454917
DX		6000	6400	82	454658	454650
EX		6900	7400	94	454657	454649
FX	EX	7900	8500	106	454656	454647
GX		8800	9500	118	454655	454648
HX		9900	10600	130	454654	454642

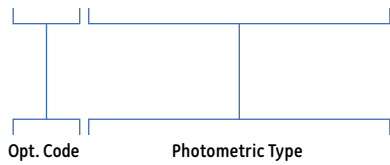
\*PE Function: Photo Electric sensors are not available.

# Ordering Number Logic

Scalable Head (ERS3)

**E R S 3 - 0 - - - - 5 - - - - 1 - G R A Y - - - -**

Product ID	Voltage	Opt. Code	Photometric Type	Drive Current	LED Color Temp.	PE Function*	Color	Options
E = ERS	0=120-277		AX = Extra Narrow Asymmetric (medium)	5 = 525mA*	40 = 4000K	1 = none	GRAY = gray	043 = IEC with programmable dimming driver, special fusing and IP44 rating
R = Roadway			BX = Narrow Asymmetric (medium)		57 = 5700K			
S = Scalable			CX = Asymmetric (short)					
3 = Optical Assembly			DX = Asymmetric Forward (very short)					045 = IEC with programmable dimming driver and IP44 rating
			EX = Asymmetric (medium)					



Opt. Code	Photometric Type	Typical Initial Lumens		Typical System Wattage	IES File Numbers	
		4000K	5700		4000K	5700K
JX		11100	11900	148	454918	454923
KX		12100	13000	159	454919	454924
LX	AX	13100	14100	172	454920	454924
MX		14000	15000	183	454921	454926
NX		14800	15900	196	454922	454927
JX		11600	12500	148	454928	454933
KX		12600	13600	159	454929	454934
LX	BX	13700	14700	172	454930	454935
MX		14700	15800	183	454931	454936
NX		15500	16700	196	454932	454937
JX		11400	12300	148	454938	454943
KX		12500	13400	159	454939	454944
LX	CX	13500	14500	172	454940	454945
MX		14400	15500	183	454941	454946
NX		15300	16400	196	454942	454947
JX		11500	12400	148	454958	454963
KX		12600	13600	159	454959	454964
LX	DX	13700	14700	172	454960	454965
MX		14600	15700	183	454961	454966
NX		15400	16600	196	454962	454967
JX		10900	11700	148	454948	454953
KX		11900	12800	159	454949	454954
LX	EX	12800	13800	172	454950	454955
MX		13800	14800	183	454951	454956
NX		14500	15600	196	454952	454957

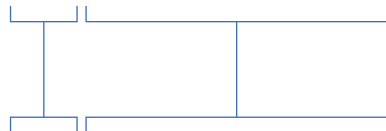
\*PE Function: Photo Electric sensors are not available.

# Ordering Number Logic

Scalable Head (ERS4)

**E R S 4 - 0 - - - - 5 - - - - 1 - G R A Y - - - -**

Product ID	Voltage	Opt. Code	Photometric Type	Drive Current	LED Color Temp.	PE Function*	Color	Options
E = ERS	0=120-277		AX = Extra Narrow Asymmetric (medium)	5 = 525mA*	40 = 4000K	1 = none	GRAY = gray	043 = IEC with programmable dimming driver, special fusing and IP44 rating
R = Roadway			BX = Narrow Asymmetric (medium)		57 = 5700K			
S = Scalable			CX = Asymmetric (short)					
4 = Optical Assembly			DX = Asymmetric Forward (very short)					045 = IEC with programmable dimming driver and IP44 rating
			EX = Asymmetric (medium)					



Opt. Code	Photometric Type	Typical Initial Lumens		Typical System Wattage	IES File Numbers	
		4000K	5700		4000K	5700K
PX		15900	17100	209	454968	454973
QX		16700	18000	222	454969	454974
RX	AX	17600	18900	235	454970	454975
SX		18500	19900	244	454971	454976
TX		19400	20900	258	454972	454977
PX		16600	17900	209	454978	454983
QX		17500	18800	222	454979	454984
RX	BX	18400	19800	235	454980	454985
SX		19400	20900	244	454981	454986
TX		20400	21900	258	454982	454987
PX		16400	17600	209	454988	454993
QX		17200	18500	222	454989	454994
RX	CX	18100	19500	235	454990	454995
SX		19100	20500	244	454991	454996
TX		20000	21500	258	454992	454997
PX		16600	17800	209	455008	455013
QX		17400	18700	222	455009	455014
RX	DX	18300	19700	235	455010	455015
SX		19300	20800	244	455011	455016
TX		20300	21800	258	455012	455017
PX		15600	16800	209	454998	455003
QX		16400	17600	222	454999	455004
RX	EX	17300	18600	235	455000	455005
SX		18100	19500	244	455001	455006
TX		19100	20500	258	455002	455007

\*PE Function: Photo Electric sensors are not available.