

Lighting: Fluorescent & LED Tube Lighting Fixture (Pendant), EARS Series



A QUALITY PRODUCT

Flameproof
Zone 1 & 2 – 22

Specification

- Body material : Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (grey)
- Tube : Borosilicate glass
- Reflector (option) : Sheet steel with polyester powder coated, RAL 9016 (white)
- Guard (option) : Stainless steel

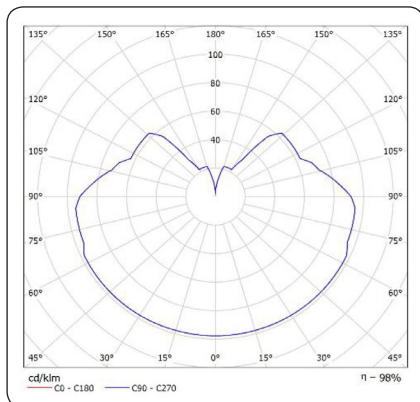
Technical Data

Hazardous Area	Gas	Dust
Zones	1 & 2	22
Conforming to ATEX	II 2G	II 2D
Symbol of Protection ATEX	Ex db IIB Gb	Ex tc IIIC Dc
Symbol of Protection IEC		
Standard	ATEX Directive 2014/34/EU, std. EN 60079-0:2012 + A11:2013, EN 60079-1:2014, EN 60079-31:2014	
	IECEX Scheme, std. IEC 60079-0:2011, IEC 60079-1:2014, IEC 60079-31:2013	
Ambient Temperature	-20 °C to +50 °C	
Index of Protection	IP54	
Entries	2 - Ø3/4" NPT	
Mounting	Pendant mount	
Rated Voltage	220-240V.AC. 50Hz. (THDi ≤ 10%, P.F. ≥ 0.98)	

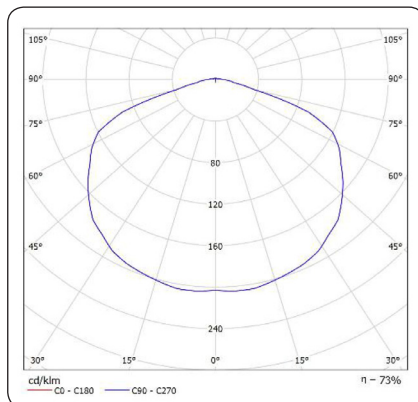


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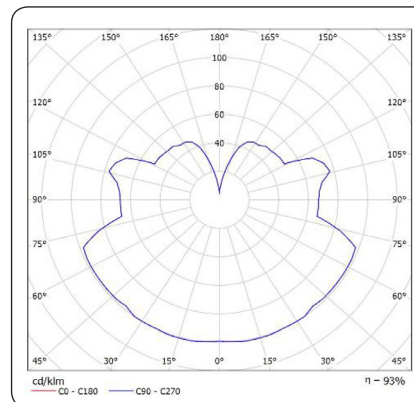
Polar curve for EARS-136



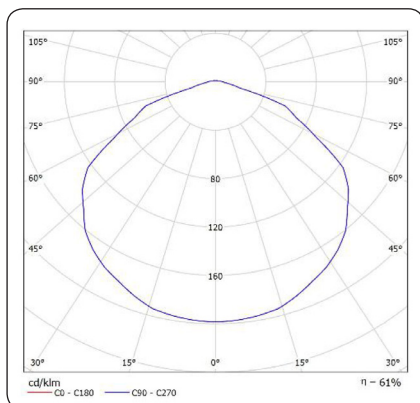
Polar curve for EARS-136R



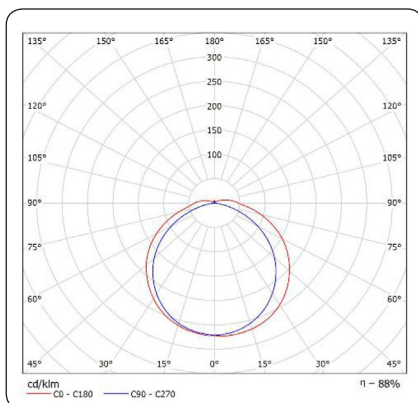
Polar curve for EARS-236



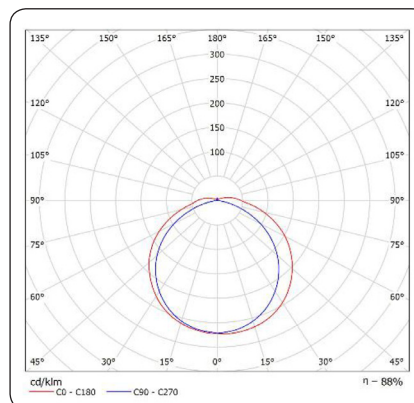
Polar curve for EARS-236R



Polar curve for EARS-218LED



Polar curve for EARS-220LED

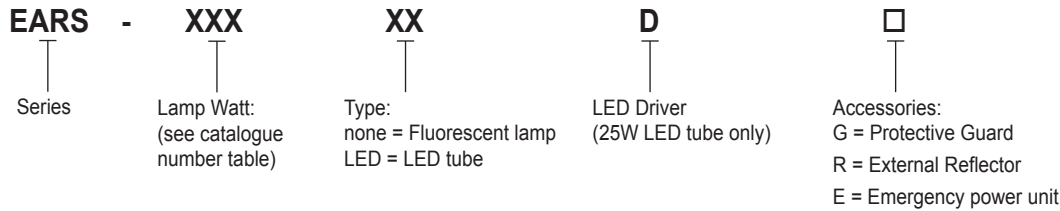


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**Flameproof
Zone 1 & 2 – 22**

Catalogue Number



Lamp Watt	Voltage	Cat. No.	Ballast	Volume (dm ³)	Temp. Class (for zone 1, 2)		Max. Surface Temp* (for zone 21, 22)		Approx. Weight (kgs.)
					Ta 40 °C	Ta 50 °C	Ta 40 °C	Ta 50 °C	

T8 Fluorescent Lamp

1 x 18W.	220-240V.AC.	EARS-118 □	Electronic	3.74	T6	T6	T85 °C	T85 °C	12.15
2 x 18W.	50/60Hz.	EARS-218 □		4.45					17.10
1 x 32W.		EARS-132 □		5.02					19.00
2 x 32W.		EARS-232 □		7.03					27.35
1 x 36W.		EARS-136 □		5.02					20.00
2 x 36W.		EARS-236 □		7.03					27.35

T5 Fluorescent Lamp

1 x 14W.	220-240V.AC.	EARS-114 □	Electronic	3.74	T6	T6	T85 °C	T85 °C	12.15
2 x 14W.	50/60Hz.	EARS-214 □		4.45					17.10
1 x 28W.		EARS-128 □		5.02					20.00
2 x 28W.		EARS-228 □		7.03					27.35

LED Tube

1 x 5W.	110-240V.AC.	EARS-105LED □	–	3.74	T6	T6	T85 °C	T85 °C	12.15
2 x 5W.	50/60Hz.	EARS-205LED □	–	4.45					17.10
1 x 6W.		EARS-106LED □	–	3.74					12.15
2 x 6W.		EARS-206LED □	–	4.45					17.10
1 x 8W.		EARS-108LED □	–	3.74					12.10
2 x 8W.		EARS-208LED □	–	4.45					17.15
1 x 9W.		EARS-109LED □	–	3.74					12.10
2 x 9W.		EARS-209LED □	–	4.45					17.15
1 x 14W.		EARS-114LED □	–	5.02					12.10
2 x 14W.		EARS-214LED □	–	7.03					17.15
1 x 15W.		EARS-115LED □	–	5.02					12.10
2 x 15W.		EARS-215LED □	–	7.03					17.15
1 x 16W.		EARS-116LED □	–	5.02					12.10
2 x 16W.		EARS-216LED □	–	7.03					17.15
1 x 18W.		EARS-118LED □	–	5.02					12.10
2 x 18W.		EARS-218LED □	–	7.03					23.15
1 x 20W.		EARS-120LED □	–	5.02					17.15
2 x 20W.		EARS-220LED □	–	7.03					25.0
1 x 22W.		EARS-122LED □	–	5.02					17.15
2 x 22W.		EARS-222LED □	–	7.03					25.0
1 x 25W.		EARS-125LEDD □	LED Driver	5.02					17.15
2 x 25W.		EARS-225LEDD □	LED Driver	7.03					25.0

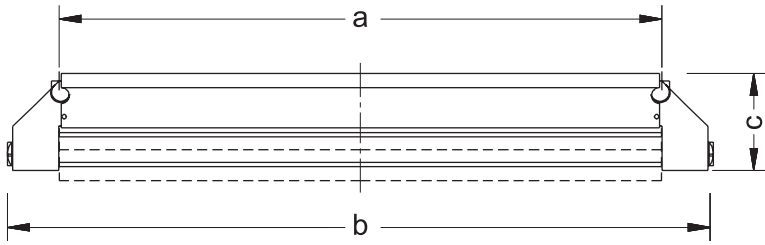
Remark * : The maximum surface temperatures are specified for dust free condition. The dust layer which may cover around the lighting fixture will cause to higher surface temperature.

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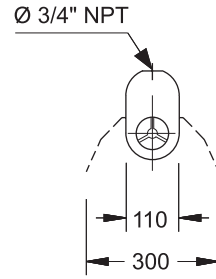


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Zone 1 & 2 – 22

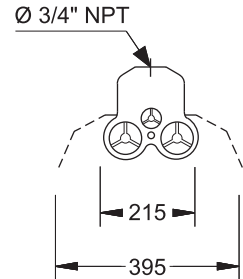
Dimension



1-Lamp



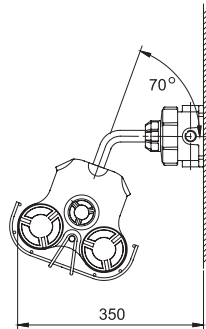
2-Lamps



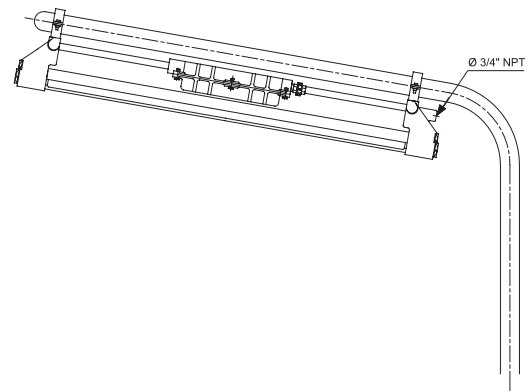
Lamp Watt	Dimension in mm.		
	a	b	c
Fluorescent Lamp			
14W., 18W.	567	722	198
28W., 32W., 36W.	1180	1330	198
LED Tube			
5-9W.	567	722	198
14-25W.	1180	1330	198

Special Mounting

Wall mount (Bracket)



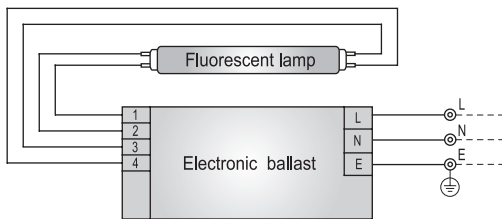
Pole mount (1-1/2" pole)



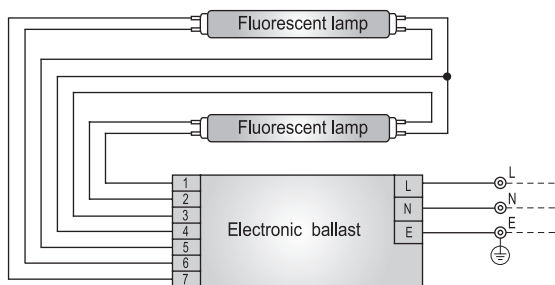
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Wiring Diagram

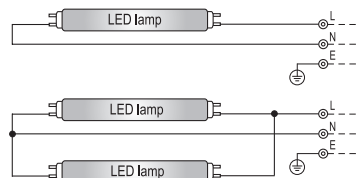
Electronic ballast (Econowatt) for fluorescent lamp;
1 x 14W., 1 x 28W., 1 x 18W. and 1 x 36W.



Electronic ballast (Econowatt) for fluorescent lamp;
2 x 14W., 2 x 28W., 2 x 18W. and 2 x 36W.



LED Tube without driver



LED Tube with driver (25W. only)

