

EUROPA LOW BRIGHT 2 x 36 WATT/PL 600 x 600mm (Nom)

RECESSED T-BAR – EUTW236PLS



SPECULAR LOUVRE – VDU CAT2 (CIBSE : LG3)

FEATURES

- Suitable for all areas where VDUs are in use.
- High grade aluminium louvres for long life and superior performance.
- Hinged louvre for easy tube replacement.
- Available in code, low loss or electronic ballast.
- Louvres also available in other finishes.
- Metal surfaces pretreated and degreased before being polyester epoxy powder coated and baked for high protection and quality finish.
- High reflectivity (94%) paint.
- Designed for quick and easy installation to save both time and money.
- High temperature internal wiring for added safety.
- T-Bar and Recessed Plaster supplied with either 1.5 metre of flex and plug or for fixed wiring.

APPLICATION

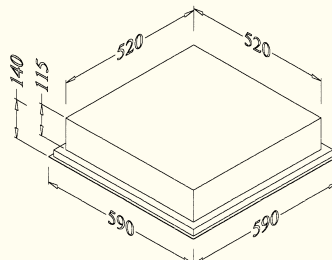
The **Europa Low Bright Luminaire** is designed to comply with British CIBSE standard LG3, and is a Category 2 luminaire. CIBSE : LG3 deals with lighting requirements for display screen (VDU) areas in the workplace, and sets maximum luminance limits from the luminaire over a range of angles, to achieve comfortable glare-free conditions in the workplace.

The **Europa** range of **Low Bright** luminaires with their Category 2 rating are an ideal choice for use in general office and VDU workstation areas where visual comfort and a glare-free environment is important.

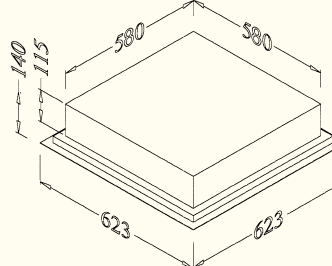
This range is available in models to suit recessed T-bar ceilings, including air handling and recessed plaster ceilings.

DIMENSIONS

RECESSED T/BAR & AIR HANDLING



RECESSED PLASTER



Cut Out Size
580 x 580mm



RECESSED T-BAR
AIR HANDLING
EUTW236PLSA



RECESSED PLASTER
EUPW236PLS



Luminaire can be fixed from the ends by crank bracket supplied or from the side using the preformed holes. Battening is required to a maximum height of 45mm including ceiling sheet.

600 x 600mm (nom) 2 x 36 WATT/PL EUROPA LOW BRIGHT



Manufactured to standards – EN60598.1



EN60598.2.1
EN60598.2.2

EN55015 (AS/NZS 4051)

EMC Compliant Supplier Code N1562 (Aust)



SIRIM
CERTIFIED TO MS ISO 9002
REGISTRATION No. ART248



“When your
business
depends
on light.”

EUROPA LOW BRIGHT 2 x 36 WATT/PL 600 x 600mm (Nom)

RECESSED T-BAR – EUTW236PLD



SEMI SPECULAR LOUVRE – VDU CAT3 NEGATIVE SCREEN VDU CAT2 POSITIVE SCREEN (CIBSE : LG3)

FEATURES

- Suitable for all areas where VDUs are in use.
- High grade aluminium louvres for long life and superior performance.
- Hinged louvre for easy tube replacement.
- Available in code, low loss or electronic ballast.
- Louvres also available in other finishes.
- Metal surfaces pretreated and degreased before being polyester epoxy powder coated and baked for high protection and quality finish.
- High reflectivity (94%) paint.
- Designed for quick and easy installation to save both time and money.
- High temperature internal wiring for added safety.
- T-Bar and Recessed Plaster supplied with either 1.5 metre of flex and plug or for fixed wiring.

APPLICATION

The **Europa Low Bright Luminaire** is designed to comply with British CIBSE standard LG3, and is a Category 3 luminaire for negative screen and Category 2 luminaire for positive screen areas.

CIBSE : LG3 deals with lighting requirements for display screen (VDU) areas in the workplace, and sets maximum luminance limits from the luminaire over a range of angles, to achieve comfortable glare-free

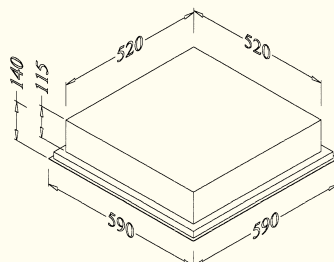
conditions in the workplace.

The **Europa** range of **Low Bright** luminaires with their Category 3 and Category 2 ratings are an ideal choice for use in general office and VDU workstation areas where visual comfort and a glare-free environment is important.

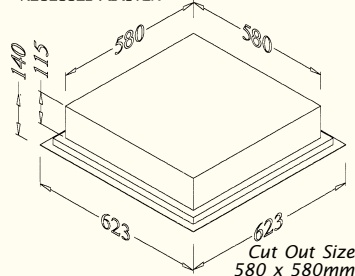
This range is available in models to suit recessed T-bar ceilings, including air handling and recessed plaster ceilings.

DIMENSIONS

RECESSED T/BAR & AIR HANDLING



RECESSED PLASTER



RECESSED T-BAR AIR HANDLING EUTW236PLDA



RECESSED PLASTER EUPW236PLD



Luminaire can be fixed from the ends by crank bracket supplied or from the side using the preformed holes. Battening is required to a maximum height of 45mm including ceiling sheet.

600 x 600mm (nom) 2 x 36 WATT/PL EUROPA LOW BRIGHT

009A

Manufactured to standards – EN60598.1



EN60598.2.1

EN60598.2.2

EN55015 (AS/NZS 4051)

EMC Compliant Supplier Code N1562 (Aust)



“When your
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EUROPA SERIES

4x4 Cell 2/36 watt/PL 600mm wide with Semi Specular louvre

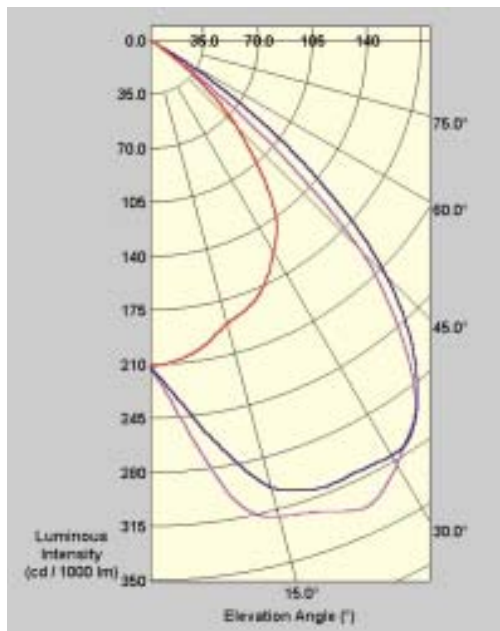
VDU Areas as per CIBSE LG3

Luminaire is classified CAT3 for negative screen and CAT2 for positive screen areas.

Photometric data applies to all three models

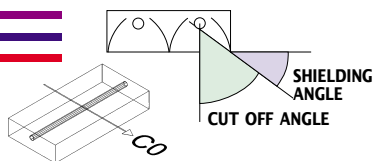
POLAR CURVE

cd/1000lms 1 Max 334cd in CO plane at 25° gamma



CO Plane (cut off angle 55°)
C45 Plane
C90 Plane (cut off angle 56°)

CIE Aiming Convention
CO Plane across the tube



EUTW236PLD Recessed T/Bar

EUTW236PLDA Recessed T/Bar Air Handling

EUPW236PLD Recessed Plaster

LUMINOUS INTENSITY TABLE (cd/1000lms)

γ Gamma	C0	C22.5	C45	C67.5	C90
0°	211	211	211	211	211
5°	249	246	236	223	207
10°	301	293	268	234	201
15°	320	317	301	243	190
20°	325	322	310	254	184
25°	334	330	309	268	174
30°	318	316	311	264	159
35°	298	289	299	244	142
40°	254	252	265	208	111
45°	196	194	216	163	79.5
50°	89.4	110	147	108	47.9
55°	18.2	34.4	74.8	44.1	15.4
60°	7.8	9.6	19	8.5	5.3
65°	4.2	4.6	4.6	4.2	2.9
70°	2.5	2.3	2.5	2.1	1.6
75°	1.2	1.2	1.3	1.2	0.8
80°	0.6	0.5	0.6	0.8	0.4
85°	0.1	0.1	0.2	0.2	0.1
90°	0	0	0	0	0

LUMINOUS OPENING: 506mm x 506mm

AVERAGE LUMINANCE TABLE

γ Gamma	C0	C45	C90
45°	1080	1190	439
55°	124	509	105
65°	38.8	42.5	26.8
75°	18.1	19.6	12.1
85°	4.48	8.96	4.48

Luminance in cd/m²/1000lms

UTILISATION FACTOR TABLE - CIBSE TM5 (fine grid method min/ave 0.8)

LOR: 58.0%				SHR NOM: 1.5 : 1.0				SHR MAX: 1.55 : 1.0			
Reflectance			Room Index (K)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.46	0.50	0.53	0.55	0.58	0.60	0.61	0.63	0.64
0.70	0.30	0.20	0.43	0.47	0.51	0.53	0.56	0.58	0.59	0.61	0.62
0.70	0.10	0.20	0.41	0.45	0.49	0.51	0.54	0.56	0.58	0.60	0.61
0.50	0.50	0.20	0.45	0.49	0.52	0.54	0.57	0.58	0.59	0.60	0.61
0.50	0.30	0.20	0.42	0.47	0.50	0.52	0.55	0.56	0.58	0.59	0.60
0.50	0.10	0.20	0.40	0.45	0.48	0.50	0.53	0.55	0.56	0.58	0.59
0.30	0.50	0.20	0.44	0.48	0.51	0.53	0.55	0.56	0.57	0.58	0.59
0.30	0.30	0.20	0.42	0.46	0.49	0.51	0.54	0.55	0.56	0.57	0.58
0.30	0.10	0.20	0.40	0.44	0.47	0.50	0.52	0.54	0.55	0.57	0.58
0.00	0.00	0.00	0.39	0.43	0.46	0.48	0.50	0.52	0.53	0.54	0.55
Distribution Factors		Floor:	0.39	0.43	0.46	0.48	0.50	0.52	0.53	0.54	0.55
		Walls:	0.19	0.15	0.12	0.10	0.08	0.06	0.05	0.04	0.03
		Ceiling:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bz Numbers			1	1	1	1	1	1	1	1	1

MALAYSIA

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PENANG Sales Office: Tel:(04) 507 0580 Fax:(04) 507 0968

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EUROPA LOW BRIGHT 2 x 36 WATT/PL 600 x 600mm (Nom)

RECESSED T-BAR – EUTW236PLG



SEMI SPECULAR LOUVRE – VDU CAT2 (CIBSE : LG3)

FEATURES

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- High reflectivity (94%) paint.
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- High temperature internal wiring for added safety.
- T-Bar and Recessed Plaster supplied with either 1.5 metre of flex and plug or for fixed wiring.

APPLICATION

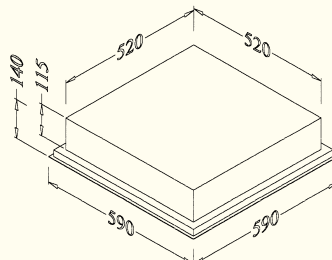
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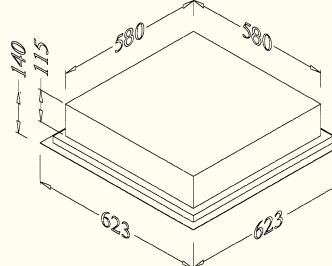
This range is available in models to suit recessed T-bar ceilings, including air handling and recessed plaster ceilings.

DIMENSIONS

RECESSED T/BAR & AIR HANDLING



RECESSED PLASTER



Cut Out Size
580 x 580mm



RECESSED T-BAR AIR HANDLING EUTW236PLGA



RECESSED PLASTER EUPW236PLG



Luminaire can be fixed from the ends by crank bracket supplied or from the side using the preformed holes. Battening is required to a maximum height of 45mm including ceiling sheet.

600 x 600mm (nom) 2 x 36 WATT/PL EUROPA LOW BRIGHT

009B

Manufactured to standards – EN60598.1



EN60598.2.1
EN60598.2.2

EN55015 (AS/NZS 4051)

EMC Compliant Supplier Code N1562 (Aust)



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EUROPA SERIES

4x4 Cell 2/36 watt/PL 600mm wide with Semi Specular louvre

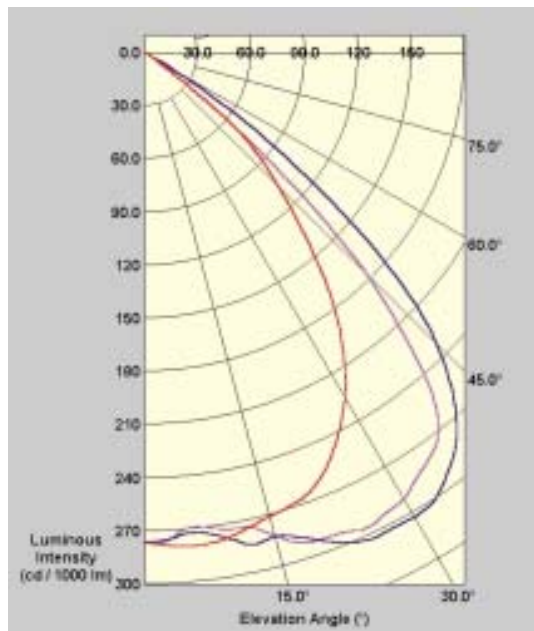
VDU Areas as per CIBSE LG3

Luminaire is classified CAT2 for both negative and positive screen areas.

Photometric data applies to all three models

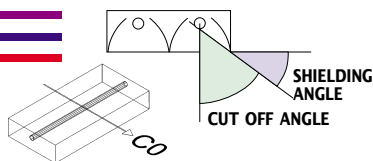
POLAR CURVE

cd/1000lms 1 Max 297cd in CO plane at 25° gamma



CO Plane (cut off angle 55°) —
 C45 Plane —
 C90 Plane (cut off angle 56°) —

CIE Aiming Convention
 CO Plane across the tube



EUTW236PLG Recessed T/Bar

EUTW236PLGA Recessed T/Bar Air Handling

EUPW236PLG Recessed Plaster

LUMINOUS INTENSITY TABLE (cd/1000lms)

γ Gamma	C0	C22.5	C45	C67.5	C90
0°	276	276	276	276	276
5°	268	268	272	278	280
10°	274	280	278	274	278
15°	282	286	282	273	271
20°	292	304	293	278	266
25°	297	307	303	273	250
30°	292	302	303	264	226
35°	280	285	294	246	192
40°	255	261	274	214	148
45°	181	193	233	172	106
50°	74.2	105	162	121	72.6
55°	11.5	27.2	76.7	53.4	14.1
60°	5.2	6	18	7.1	4.6
65°	3.0	3.1	3.3	3.5	2.7
70°	1.7	1.9	1.8	2	1.9
75°	1.0	1.1	1.2	1.1	1.1
80°	0.6	0.7	0.6	0.6	0.6
85°	0.1	0.2	0.2	0.2	0.2
90°	0	0	0	0	0

LUMINOUS OPENING: 506mm x 506mm

AVERAGE LUMINANCE TABLE

γ Gamma	C0	C45	C90
45°	997	1290	587
55°	78.3	522	96.0
65°	28.6	30.5	25.0
75°	15.1	16.6	16.6
85°	4.48	8.96	8.96

Luminance in cd/m²/1000lms

UTILISATION FACTOR TABLE - CIBSE TM5 (fine grid method min/ave 0.8)

LOR: 59.3%				SHR NOM: 1.5 : 1.0					SHR MAX: 1.60 : 1.0				
Reflectance				Room Index (K)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00		
0.70	0.50	0.20	0.47	0.51	0.54	0.57	0.59	0.61	0.62	0.64	0.65		
0.70	0.30	0.20	0.44	0.48	0.52	0.54	0.57	0.59	0.61	0.62	0.64		
0.70	0.10	0.20	0.41	0.46	0.50	0.52	0.55	0.57	0.59	0.61	0.63		
0.50	0.50	0.20	0.46	0.50	0.53	0.55	0.58	0.59	0.60	0.62	0.62		
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0.50	0.10	0.20	0.41	0.46	0.49	0.51	0.54	0.56	0.58	0.59	0.61		
0.30	0.50	0.20	0.45	0.49	0.52	0.54	0.56	0.57	0.58	0.60	0.60		
0.30	0.30	0.20	0.43	0.47	0.50	0.52	0.55	0.56	0.57	0.59	0.59		
0.30	0.10	0.20	0.41	0.45	0.48	0.51	0.53	0.55	0.56	0.58	0.59		
0.00	0.00	0.00	0.40	0.44	0.47	0.49	0.51	0.53	0.54	0.55	0.56		
Distribution Factors		Floor:	0.40	0.44	0.47	0.49	0.51	0.53	0.54	0.55	0.56		
		Walls:	0.19	0.15	0.12	0.10	0.08	0.06	0.05	0.04	0.03		
		Ceiling:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bz Numbers			1	1	1	1	1	1	1	1	1		

MALAYSIA

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