

## LD10237

### HIGH-POWER SURFACE MOUNTED WALL WASHER



The LD10237 is a powerful interior and exterior, surface mounted product, designed for wall washing applications, that dependant on its chosen orientation, can illuminate the surface up or downwards. It can be specified with a wide range of options allowing it to suit most project requirements. Available LED engines include E3, Tunable White, CLR, RGBW and F1 which offer a range of colour temperatures between 2200K-5000K, with multiple beam angles to choose from. The LD10237 body is a machined billet of aluminium offering a robust and minimal design in numerous paint finishes with discreet fixing options available. Low glare illumination has been achieved by recessing the LED into the body, which is then held in place by anti-glare rings. This is a very tough, high quality fitting, machined from high grade materials, ensuring excellent thermal and light output performance.

Design: Lighting Design International  
Project: Four Seasons Asir Palace Hotel, Athens  
Product: LD10237  
Photography: Gavril (www.gavrilux.com)

## KEY FEATURES

- > E3 engine featuring a NICHIA LED delivering up to 653 lumens with 2-step binning and built in reverse polarity protection
- > Available with F1, RGBW, CLR and Tunable White LED engines and optional 2nd channel LEDs for secondary lighting applications
- > Range of beam angles featuring a narrow 12° spot for lighting columns and arches, or a 15°x 49° spreader lens, which is ideal for wall washing applications
- > Single light source and optic produces a very consistent beam with no multiple shadows
- > LED and lens set back in a matt black anodised body for reduced glare
- > Body is a machined solid billet of aluminium
- > Paint finishes include: White (RAL 9016), Silver, Anthracite Grey (RAL 7016), Black (RAL 9005), Antique Bronze, Satin Antique Brass, Satin Brass or any RAL finish
- > Discreet fixing with two grub screws behind the body
- > Available with Switched, 0-10V, Casambi, DMX, Dali or Mains dimmable drivers









## DIMENSIONS

Dimensions in mm

For fitting dimensions please go to page 4.



## WHITE LED ENGINE SPECIFICATION

|                                      |   |              |                 |  |             |             |
|--------------------------------------|---|--------------|-----------------|--|-------------|-------------|
| Engine                               |  E3  |              |                 |  F1 |             |             |
| Beam angles                          | 12°, 19°, 34°, 54°, 15°x 49°  |              |                 | 25°, 46°, 65°, 18° x 45°   |             |             |
| LED manufacturer                     | NICHIA  |              |                 | CREE   |             |             |
| Colour temperature*                  | 2200K, 2700K, 3000K, 4000K, 5000K   |              |                 | 2200K, 2700K, 3000K, 4000K, 5000K  |             |             |
| Current                              | 350mA   | 500mA        | 700mA           | 350mA  | 500mA       | 700mA       |
| LED power (Max)                      | 4.2W<br>(5W**)  | 6W<br>(7W**) | 8.4W<br>(10W**) | 3.2W (3.5W**)  | 4.5W (5W**) | 6.3W (7W**) |
| Delivered lumens (L <sub>100</sub> ) | 379   | 493          | 653             | 227  | 241         | 367         |
| Lumens per circuit watt              | 76  | 70           | 65              | 65   | 49          | 52          |
| CRI (Typ)                            | 85  |              |                 | 90   |             |             |
| Forward voltage (V <sub>100</sub> )  | 14V   |              |                 | 9V   |             |             |
| Colour consistency                   | 2 SDCM  |              |                 | 3 SDCM   |             |             |
| Peak intensity                       | 6104 cd   |              |                 | 1641 cd  |             |             |
| LED lumens                           | 840   |              |                 | 623  |             |             |
| LOR                                  | 0.78  |              |                 | 0.63   |             |             |
| TM30                                 | RF85  | RG99         |                 | RF90   | RG103       |             |
| UGR***                               | 8.0   |              |                 | 8.1  |             |             |
| LED lifetime                         | L90B5 at 90,000hrs  |              |                 |  |             |             |
| Applications                         |       |              |                 |  |             |             |

These values are based around a LD10237-E3-700-LW30-NB & LD10237 -F1-700-LW22-MSB

\*Lumen output data applies to all colour temperatures










\*\*indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

\*\*\*UGR values based on room parameters of 4H 8H, C70 W50 F20

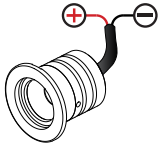
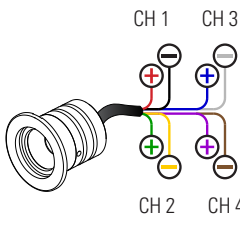
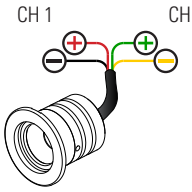
## MECHANICAL

|                     |   |
|---------------------|---|
| Ambient temperature | -20° to 45° (500mA) or -20° to 35° (700mA)  |
| Glass               | Low iron glass 3mm thick  |
| Materials           | Anodised aluminium body, with stainless steel fixing brackets                     |
| Weight of product   | 1kg   |
| IP rating           | IP67  |
| IK rating           | IK08  |
| Wiring              | In-series constant current wiring (pre-wired with 2 core cable at a length of 1m) |

## COLOUR & DYNAMIC LED ENGINE SPECIFICATION

| Engine             |  CLR - Colour  |  RGBW |  TW - Tunable White |
|--------------------|---|--|--|
| Beam Angles        | 24°, 38°, 54°, 20° x 46°  | 38° colour mix lens  | 24°, 38°, 54°, 20° x 46°   |
| LED manufacturer   | CREE  | CREE   | CREE   |
| Colour temperature | Red, Green, Blue, Amber   | Red, Green, Blue, 4000K White  | Warm White 2700K or 3000K<br>Cool White 4000K or 5000K   |
| Current            | 500mA   | 350mA<br>500mA   | 500mA  |
| LED power (Max)    | 7W  | 5W<br>7W   | 6.3W (7W*)<br>3.5W per channel   |
| Applications       |       |  |  |

## MECHANICAL

|                   |   |   |  |
|-------------------|---|---|--|
| Glass             | Low iron glass 3mm thick  |   |  |
| Materials         | Anodised aluminium body, with stainless steel fixing brackets   |   |  |
| Weight of product | 1kg   |   |  |
| IP rating         | IP67  |   |  |
| IK rating         | IK08  |   |  |
| Wiring            | <b>CLR</b> - 2 core cables at 1m in length<br> | <b>RGBW</b> - 8 core cables at 1m in length<br> | <b>TW</b> - 4 core cables at 1m in length<br> |

## AVAILABLE FINISHES

*Please refer to our finishes guide for full details*

The LD10237 body is a machined single billet of aluminium and is painted in-house at LightGraphix. Paint finishes are suitable for interior and exterior use on surface mounted products. Our standard colours are below but we can accommodate any RAL request.



SILVER  
ANODISED



ANTIQUE  
BRONZE



SATIN  
ANTIQUE BRASS



SATIN BRASS



BLACK (RAL 9005)



ANTHRACITE  
GREY (RAL 7016)



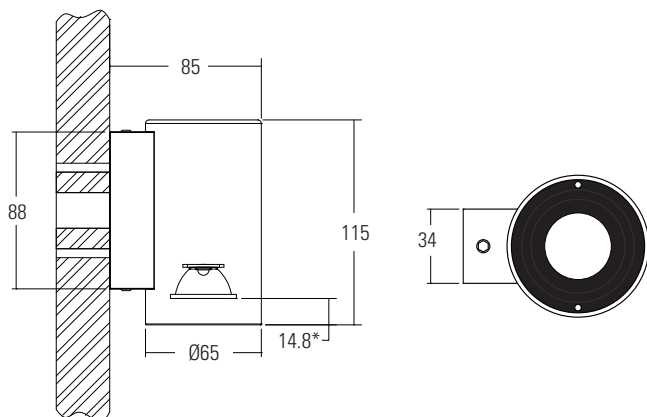
WHITE  
(RAL 9016)



RAL

## DIMENSIONS

*Dimensions in mm*



\* 4.3mm when using the taller RGBW optic



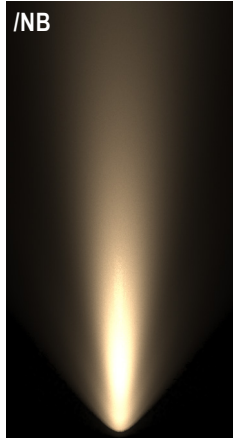
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## CONE DIAGRAMS

### E3 LED Engine

Cone diagrams below are based on a 3000K E3 LED engine run at maximum output 700mA, 10W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD10237 product page on the website.

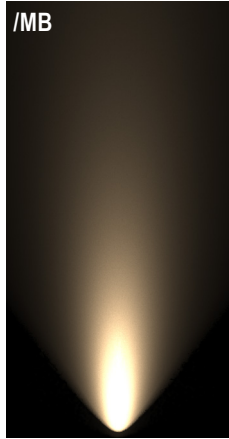


**Narrow Beam**

700mA using a 12° optic

| Distance (m) | Illuminance (lx) |       |
|--------------|------------------|-------|
| 3.0          | 0.76             | 674   |
| 2.5          | 0.63             | 970   |
| 2.0          | 0.51             | 1516  |
| 1.5          | 0.38             | 2694  |
| 1.0          | 0.25             | 6062  |
| 0.5          | 0.13             | 24248 |

Cone Width (m)

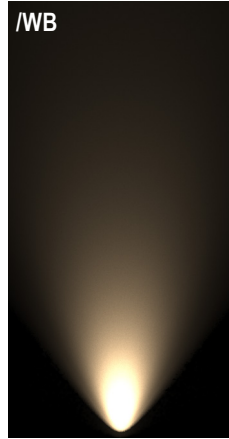


**Medium Beam**

700mA using a 19° optic

| Distance (m) | Illuminance (lx) |       |
|--------------|------------------|-------|
| 3.0          | 0.95             | 434   |
| 2.5          | 0.79             | 625   |
| 2.0          | 0.63             | 977   |
| 1.5          | 0.48             | 1737  |
| 1.0          | 0.32             | 3909  |
| 0.5          | 0.16             | 15637 |

Cone Width (m)



**Wide Beam**

700mA using a 34° optic

| Distance (m) | Illuminance (lx) |      |
|--------------|------------------|------|
| 3.0          | 1.77             | 160  |
| 2.5          | 1.47             | 230  |
| 2.0          | 1.18             | 360  |
| 1.5          | 0.88             | 639  |
| 1.0          | 0.59             | 1438 |
| 0.5          | 0.29             | 5753 |

Cone Width (m)

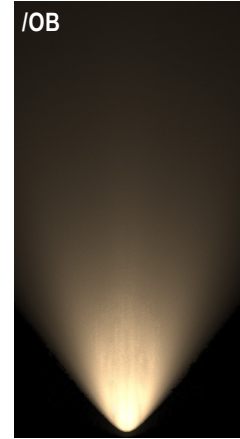


**Extra Wide Beam**

700mA using a 54° optic

| Distance (m) | Illuminance (lx) |      |
|--------------|------------------|------|
| 3.0          | 3.24             | 74   |
| 2.5          | 2.70             | 107  |
| 2.0          | 2.16             | 167  |
| 1.5          | 1.62             | 296  |
| 1.0          | 1.08             | 667  |
| 0.5          | 0.54             | 2667 |

Cone Width (m)



**Oval Beam**

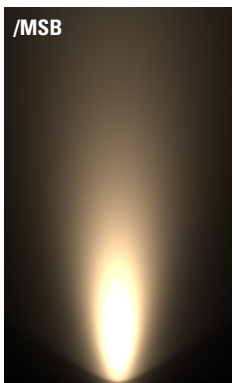
700mA using a 15° X 49° optic

| Distance (m) | Illuminance (lx) |      |
|--------------|------------------|------|
| 3.0          | 2.45 / 0.75      | 264  |
| 2.5          | 2.04 / 0.62      | 380  |
| 2.0          | 1.63 / 0.50      | 593  |
| 1.5          | 1.22 / 0.37      | 1054 |
| 1.0          | 0.82 / 0.25      | 2372 |
| 0.5          | 0.41 / 0.12      | 9489 |

Cone Width (m)

### F1 LED Engine

Cone diagrams below are based on a 2200K F1 LED engine run at maximum output 700mA, 7W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD10237 product page on the website.



**Medium Spot Beam**

700mA using a 25° optic

| Distance (m) | Illuminance (lx) |      |
|--------------|------------------|------|
| 3.0          | 1.17             | 202  |
| 2.5          | 0.97             | 290  |
| 2.0          | 0.78             | 454  |
| 1.5          | 0.58             | 806  |
| 1.0          | 0.39             | 1814 |
| 0.5          | 0.19             | 7256 |

Cone Width (m)



**Wide Beam**

700mA using a 46° optic

| Distance (m) | Illuminance (lx) |      |
|--------------|------------------|------|
| 3.0          | 2.02             | 82   |
| 2.5          | 1.68             | 119  |
| 2.0          | 1.35             | 185  |
| 1.5          | 1.01             | 330  |
| 1.0          | 0.67             | 742  |
| 0.5          | 0.34             | 2968 |

Cone Width (m)



**Extra Wide Beam**

700mA using a 65° optic

| Distance (m) | Illuminance (lx) |      |
|--------------|------------------|------|
| 3.0          | 3.85             | 39   |
| 2.5          | 3.21             | 56   |
| 2.0          | 2.57             | 88   |
| 1.5          | 1.93             | 156  |
| 1.0          | 1.28             | 351  |
| 0.5          | 0.64             | 1402 |

Cone Width (m)



**Oval Beam**

700mA using a 18° X 45° optic

| Distance (m) | Illuminance (lx) |      |
|--------------|------------------|------|
| 3.0          | 2.47 / 0.91      | 149  |
| 2.5          | 2.06 / 0.76      | 214  |
| 2.0          | 1.65 / 0.60      | 335  |
| 1.5          | 1.24 / 0.45      | 595  |
| 1.0          | 0.82 / 0.30      | 1339 |
| 0.5          | 0.41 / 0.15      | 5357 |

Cone Width (m)

## ORDER CODES & OPTIONS

Example: LD10237-E3-500 / LW30 / NB / Silver Anodized

| Light engine & drive current |   | LED colour |   | Beam angle |   | Finish |
|------------------------------|---|------------|---|------------|---|--------|
| LD10237 -                    | / |            | / |            | / |        |

### WHITE LED ENGINES

E3

5W LED at 350mA

LD10237-E3-350

7W LED at 500mA

LD10237-E3-500

10W LED at 700mA

LD10237-E3-700

Super Warm White (2200K)

/LW22

Extra Warm White (2700K)

/LW27

Warm White (3000K)

/LW30

White (4000K) - on request

/LW40

Cool White (5000K)

/LW50

12° Narrow spot

/NB

19° Medium

/MB

34° Wide

/WB

54° Extra wide

/WWB

15° x 49° Oval

/OB

Paint finish - Silver Anodized

Paint finish - Antique Bronze

Paint Finish - Satin Antique Brass

Paint Finish - Satin Brass

Paint Finish - Black (RAL 9005)

Paint Finish - Anthracite Grey (RAL 7016)

Paint Finish - White (RAL 9016)

Paint Finish - RAL

F1

3.5W LED at 350mA

LD10237-F1-350

5W LED at 500mA

LD10237-F1-500

7W LED at 700mA

LD10237-F1-700

Super Warm White (2200K)

/LW22

Extra Warm White (2700K)

/LW27

Warm White (3000K)

/LW30

White (4000K) - on request

/LW40

Cool White (5000K)

/LW50

25° Medium spot

/MSB

46° Wide

/WB

65° Extra wide

/WWB

18° x 45° Oval

/OB

COLOUR & DYNAMIC LED ENGINES

CLR

3.5W LED at 350mA

LD10237-CLR-350

Red

/LR

Green

/LG

Blue

/LB

Amber

/LA

24° Medium

/MB

38° Wide

/WB

54° Extra wide

/WWB

20° x 46° Oval

/OB

RGBW

5W LED at 350mA

LD10237-RGBW-350

7W LED at 500mA

LD10237-RGBW-500

38° Colour mix lens

TW

3.5W LED at 350mA

LD10237-TW-350

Tunable White 2700K & 4000K (standard option)

/LW27 + LW40

Tunable White 2700K & 5000K

/LW27 + LW50

Custom

/LW\*\* + L\*\*

24° Medium

/MB

38° Wide

/WB

54° Extra wide

/WWB

20° x 46° Oval

/OB

### Drivers

Use with 350mA, 500mA & 700mA constant current LED drivers  
We have a range of dimmable LED drivers DMX and DALI compatible. Please see the downloads section on our website.