

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*	2700K / 3000K / 4000K / 5000K			2200K, 2700K, 3000K, 4000K, 5000K		
Current	350mA	500mA	700mA	350mA	500mA	700mA
LED power (Max)	4.2W (5W**)	6W (7W**)	8.4W (10W**)	3.2W (3.5W**)	4.5W (5W**)	6.3W (7W**)
Delivered lumens (L ₁₀₀)	379	493	653	227	241	367
Lumens per circuit watt	76	70	65	65	49	52
CRI (Typ)	85			90		
Forward voltage (V ₁₀₀)	14V			9V		
Colour consistency	2 SCDM			3 SCDM		
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

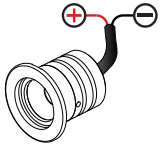
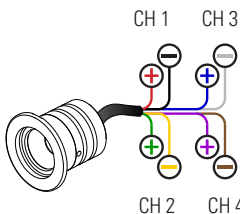
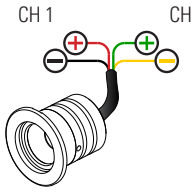
MECHANICAL

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 Cool White 4000K or 5000K
Current	500mA	350mA 500mA	500mA
LED power (Max)	7W	5W 7W	6.3W (7W*) 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	CLR - 2 core cables at 1m in length 	RGBW - 8 core cables at 1m in length 	TW - 4 core cables at 1m in length 

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)



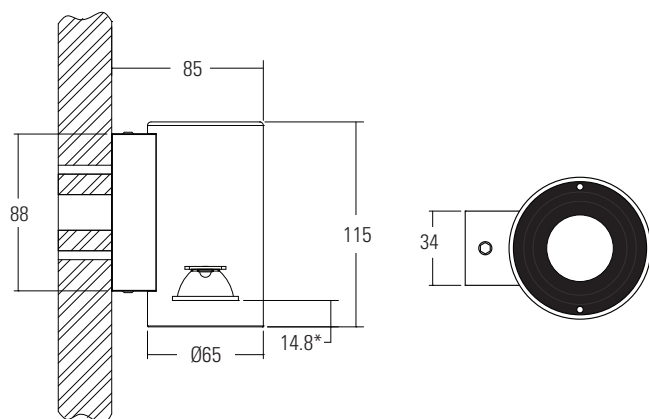
WHITE
(RAL 9016)



RAL

DIMENSIONS

Dimensions in mm



* 4.3mm when using the taller RGBW optic

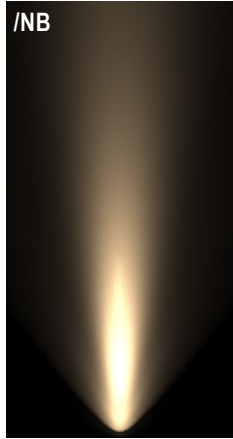


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CONE DIAGRAMS

E3 LED Engine

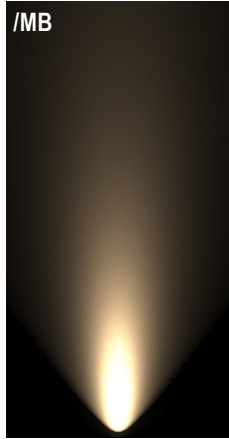
Cone diagrams below are based on a 3000K E3 LED engine run at maximum output 700mA, 10W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD10237 product page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



Narrow Beam

700mA using a 12° optic

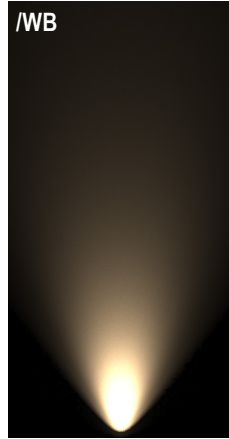
Distance (m)	Luminance (lx)	Cone Width (m)
3.0	0.76	674
2.5	0.63	970
2.0	0.51	1516
1.5	0.38	2694
1.0	0.25	6062
0.5	0.13	24248



Medium Beam

700mA using a 19° optic

Distance (m)	Luminance (lx)	Cone Width (m)
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



Wide Beam

700mA using a 34° optic

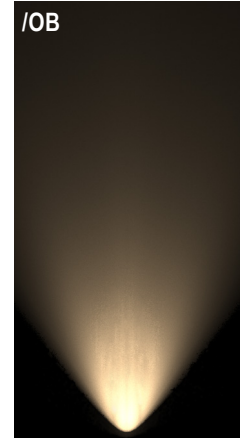
Distance (m)	Luminance (lx)	Cone Width (m)
3.0	1.77	160
2.5	1.47	230
2.0	1.18	360
1.5	0.88	639
1.0	0.59	1438
0.5	0.29	5753



Extra Wide Beam

700mA using a 54° optic

Distance (m)	Luminance (lx)	Cone Width (m)
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



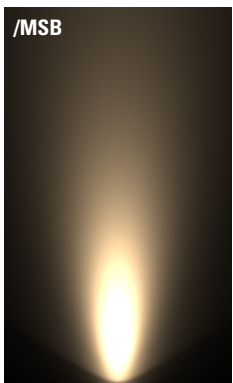
Oval Beam

700mA using a 15° X 49° optic

Distance (m)	Luminance (lx)	Cone Width (m)
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

F1 LED Engine

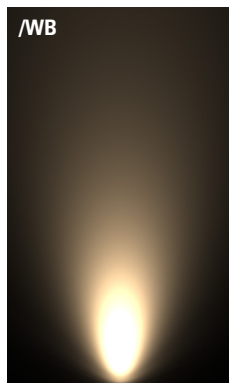
Cone diagrams below are based on a 2200K F1 LED engine run at maximum output 700mA, 7W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD10237 product page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



Medium Spot Beam

700mA using a 25° optic

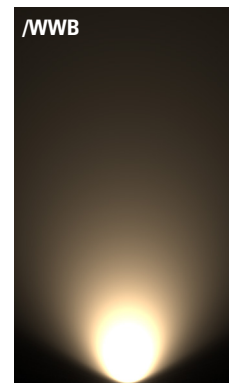
Distance (m)	Luminance (lx)	Cone Width (m)
3.0	1.17	202
2.5	0.97	290
2.0	0.78	454
1.5	0.58	806
1.0	0.39	1814
0.5	0.19	7256



Wide Beam

700mA using a 46° optic

Distance (m)	Luminance (lx)	Cone Width (m)
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



Extra Wide Beam

700mA using a 65° optic

Distance (m)	Luminance (lx)	Cone Width (m)
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



Oval Beam

700mA using a 18° X 45° optic

Distance (m)	Luminance (lx)	Cone Width (m)
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

ORDER CODES & OPTIONS

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

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

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

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



Paint finish -
Antique Bronze



Paint Finish -
Satin Antique Brass

COLOUR & DYNAMIC LED ENGINES

CLR

3.5W LED at 350mA	LD10237-CLR-350
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Red	/LR
Green	/LG
Blue	/LB
Amber	/LA

24° Medium	/MB
38° Wide	/WB
54° Extra wide	/WWB
20° x 46° Oval	/OB



Paint Finish -
Satin Brass



Paint Finish - Black
(RAL 9005)

RGBW

5W LED at 350mA	LD10237-RGBW-350
7W LED at 500mA	LD10237-RGBW-500

38° Colour mix lens	
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Paint Finish -
Anthracite Grey
(RAL 7016)

TW

3.5W LED at 350mA	LD10237-TW-350
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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



Paint Finish - White
(RAL 9016)



Paint Finish - RAL

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.