

LD10237

HIGH-POWER SURFACE MOUNTED WALL WASHER



R + R



The LD10237 is a powerful double output surface mounted fitting, designed for interior and exterior wall washing applications. It can be specified with a wide range of options allowing it to suit most project requirements. Available LED engines include E3, CLR, Tunable White, RGBW and F1, which offer a range of colour temperatures between 2200K-5000K, with multiple beam angles and paint finishes to choose from. The fitting emits a beam at both the top and bottom and houses a matt black inner baffle with two recessed LEDs that are held in place by anti-glare rings for a low glare illumination. The LD10237 body is a machined billet of aluminium offering a robust and minimal design with a large selection of paint finishes available as well as discreet fixing options, that will allow it to blend into many environments. This is a very tough, high quality fitting, machined from high grade materials, ensuring excellent thermal and light output performance.

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.



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

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 [Rated Output]	350mA [5W]	500mA [7W]	700mA [10W]	350mA [3.5W]	500mA [5W]	700mA [7W]
Typical LED Circuit wattage	4.4W	6.4W	9.2W	3.3W	5W	7.2W
Delivered lumens (L ₁₀₀)*	379	493	653	227	241	367
Delivered lm/Circuit W**	85	77	71	68	48	51
Typical LED Source wattage	4W	5.8W	8.3W	3W	4.5W	6.5W
Source LED lm	574	740	949	377	497	654
Source lm/W	144	128	114	126	110	101
Forward voltage (V ₁₀₀)	11.3V	11.6V	11.8V	8.7V	9V	9.3V
CRI	85			90		
Colour consistency	2SCDM			3SCDM		
Peak intensity**	6,104 cd			1,641 cd		
LOR	0.69			0.56		
TM30	RF85 RG99			RF90 RG103		
UGR rating ('downlight' mounted) ***	4.5	5.4	6.4	6.5	6.7	8.1
BUG rating ('downlight' mounted)	B1-U1-G0			B1-U1-G0		
BUG rating ('uplight' mounted)	B0-U4-G0			B0-U3-G0		
LED lifetime	L90B5 at 90,000hrs			L90B5 at 90,000hrs		
Applications	     					

These values are based around a LD10235-E3-700-LW30-NB & LD10235-F1-700-LW22-MSB

*Lumen output data applies to all colour temperatures





**LED wattage includes losses associated with using a 90% efficient driver

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

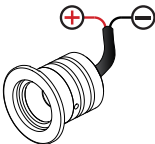
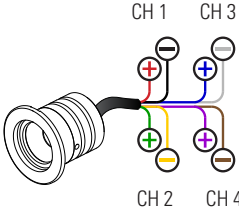
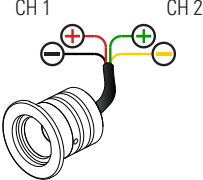
MECHANICAL

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)



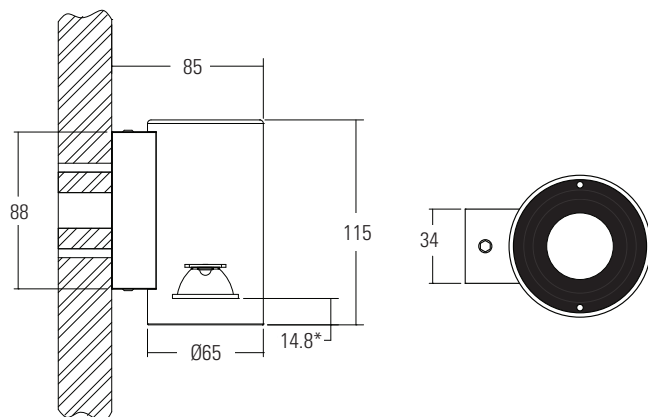
WHITE
(RAL 9016)



RAL

DIMENSIONS

Dimensions in mm



* 4.3mm when using the taller RGBW optic

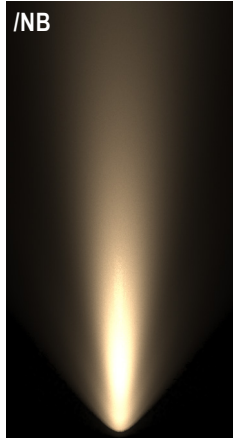


Design: Lighting Design International
Project: Four Seasons Astir-Palace Hotel, Athens
Product: LD10237
Photography: Gavril (www.gavrilux.com)

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.

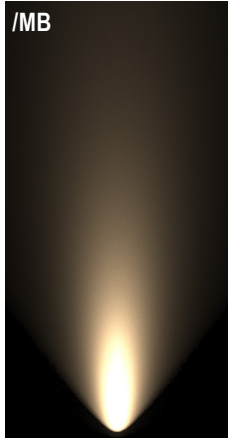


Narrow Beam

700mA using a 12° optic

Distance (m)	Luminance (lx)	
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)

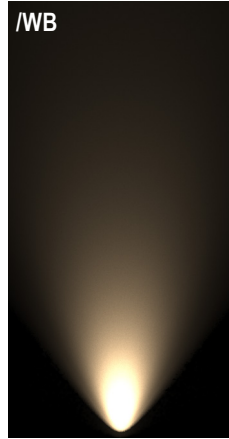


Medium Beam

700mA using a 19° optic

Distance (m)	Luminance (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)	Luminance (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)

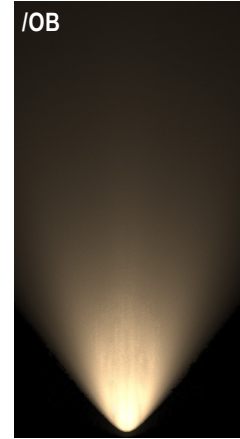


Extra Wide Beam

700mA using a 54° optic

Distance (m)	Luminance (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

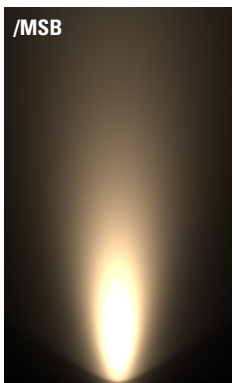
700mA using a 15° X 49° optic

Distance (m)	Luminance (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.

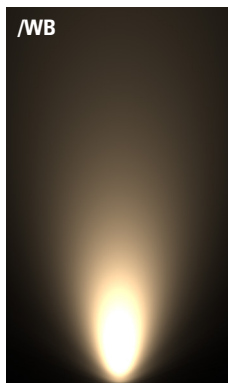


Medium Spot Beam

700mA using a 25° optic

Distance (m)	Luminance (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)	Luminance (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)	Luminance (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)	Luminance (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 Anodised

Light engine & drive current		LED colour		Beam angle		Finishes
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

F1

7W LED at 350mA	LD10237-N1-350
10W LED at 700mA	LD10237-N1-500
14W LED at 700mA	LD10237-N1-700

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

7W LED at 500mA	LD10237-CLR-500
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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

RGBW

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

38° Colour mix lens	
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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

	WET SPRAY Silver anodised
	WET SPRAY Antique Bronze
	WET SPRAY Satin Antique Brass
	WET SPRAY Satin Brass
	WET SPRAY Anthracite Grey (RAL 7016)
	WET SPRAY Black (RAL 9005)
	WET SPRAY White (RAL 9016)
	WET SPRAY RAL Colours

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.