

LD10236

HIGH-POWER DOUBLE OUTPUT SURFACE MOUNTED WALL WASHER



The LD10236 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 LD10236 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 NICHIA LEDs, delivering up to 986 lumens (x2 LEDs) in 3000K with 2-step binning and built in reverse polarity protection
- > Available with F1, RGBW and Tunable White LED engines and optional 2nd channel LEDs for secondary lighting applications
- > Features two LEDs pointing up and down, recessed in a matt black anodised body for reduced glare
- > Range of beam angles including a narrow 12° spot for lighting columns and arches, or a 15°x 49° spreader lens, which is ideal for wall washing applications
- > Single optic with matt black inner baffle produces a very consistent beam with no multiple shadows
- > 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 driver

DIMENSIONS







Dimensions in mm

For fitting dimensions please go to page 4.



Design: Stan Baxter Lighting Design
Project: Private Residence
Product: LD10236

WHITE LED ENGINE SPECIFICATION

Engine	E3 x 2		F1 x 2		
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 [Rated Output]	350mA [10W**]	500mA [14W**]	350mA [7W**]	500mA [10W**]	700mA [14W**]
LED power (Max)	8.4W	12W	6.4W	9W	12.6W
Delivered lumens (L ₁₀₀)	758	986	490	610	812
Lumens per circuit watt	76	70	70	61	58
CRI (Typ)	85		90		
Forward voltage (V ₁₀₀)	28V		18V		
Colour consistency	2 SDCM		3 SDCM		
Peak intensity	6104 cd		1641 cd		
LED lumens	1680		1246		
LOR	0.78		0.59		
TM30	RF85	RG99	RF90		
UGR***	8.0		8.1		
LED lifetime	L90B5 at 90,000hrs		L90B5 at 90,000hrs		
Applications	     				

These values are based around a LD10236-E3-700-LW30-NB & LD10236 -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

		350mA	500mA	700mA
Ambient temperature ○ 55°C	⊕ E3	-20°C to 55°C	-20°C to 55°C	-
	⊙ F1	-20°C to 55°C	-20°C to 55°C	-20°C to 50°C
Glass	Low iron glass 3mm thick			
Materials	Anodised aluminium body, with stainless steel fixing brackets			
Weight of product	1.26kg			
IP rating	IP67			
IK rating	IK08			
Wiring	In-series constant current wiring (pre-wired with 2 core cable at a length of 1m)			

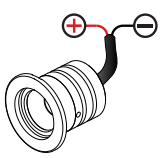
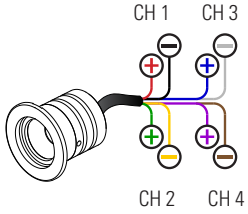
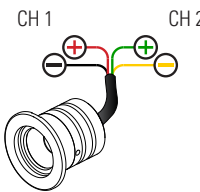
ENVIRONMENTAL

TM65	Available on request	
TM66	2.5	
Repair + Refurbish	 <p>This product is included in our Repair and Refurbish scheme. This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.</p>	

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	350mA 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	1.26kg		
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 LD10236 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



ANTIQU
BRONZE



SATIN
ANTIQU
BRASS



SATIN
BRASS



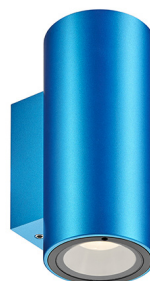
BLACK (RAL 9005)



ANTHRACITE
GREY (RAL 7016)



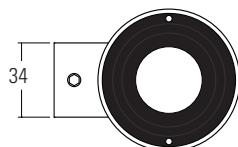
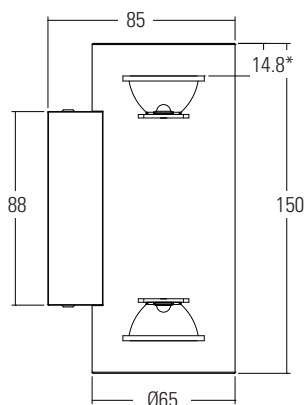
WHITE
(RAL 9016)



RAL

DIMENSIONS

Dimensions in mm



* 4.3mm when using the taller RGBW optic

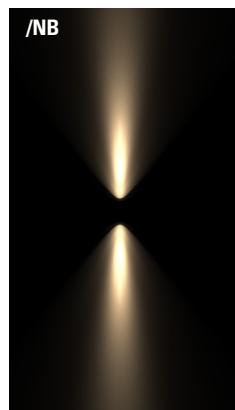


Design: Stan Baxter Lighting Design
Project: Private Residence
Product: LD10236

CONE DIAGRAMS

E3 LED Engine

Cone diagrams below are based on a 3000K E3 LED engine run at maximum output 500mA in one direction. Photometric files (LDT) are included in the design pack which can be downloaded from the LD10236 product page on the website.

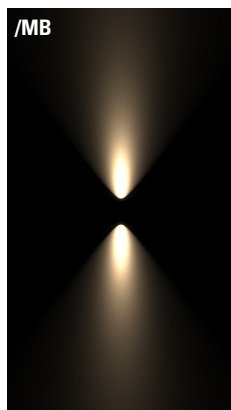


Narrow Beam

500mA using a 12° optic

Distance (m)	Illuminance (lx)	
3.0	0.76	505
2.5	0.63	727
2.0	0.51	1136
1.5	0.38	2019
1.0	0.25	4542
0.5	0.13	18170

Cone Width (m)

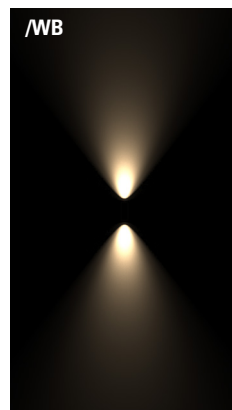


Medium Beam

500mA using a 19° optic

Distance (m)	Illuminance (lx)	
3.0	1.05	291
2.5	0.87	419
2.0	0.70	654
1.5	0.52	1163
1.0	0.35	2616
0.5	0.17	10466

Cone Width (m)

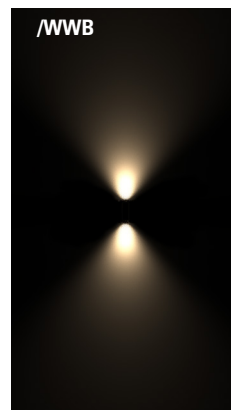


Wide Beam

500mA using a 34° optic

Distance (m)	Illuminance (lx)	
3.0	1.77	121
2.5	1.47	174
2.0	1.18	271
1.5	0.88	483
1.0	0.59	1086
0.5	0.29	4344

Cone Width (m)

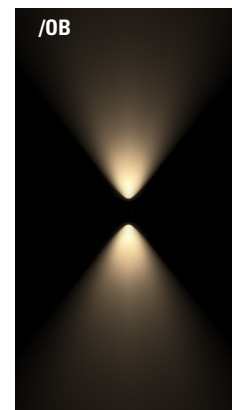


Extra Wide Beam

500mA using a 54° optic

Distance (m)	Illuminance (lx)	
3.0	3.24	56
2.5	2.70	81
2.0	2.16	126
1.5	1.63	224
1.0	1.08	504
0.5	0.54	2014

Cone Width (m)



Oval Beam

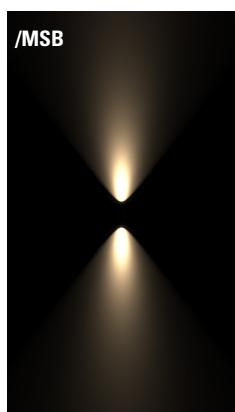
500mA using a 15° X 49° optic

Distance (m)	Illuminance (lx)	
3.0	2.46 / 0.75	199
2.5	2.05 / 0.62	287
2.0	1.64 / 0.50	448
1.5	1.23 / 0.37	796
1.0	0.82 / 0.25	1792
0.5	0.41 / 0.12	7167

Cone Width (m)

F1 LED Engine

Cone diagrams below are based on a 2200K F1 LED engine run at maximum output 700mA in one direction. Photometric files (LDT) are included in the design pack which can be downloaded from the LD10236 product page on the website.

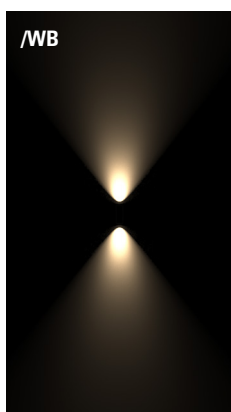


Medium Spot Beam

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)

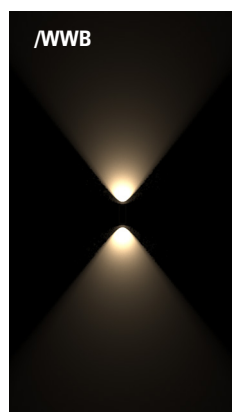


Wide Beam

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)

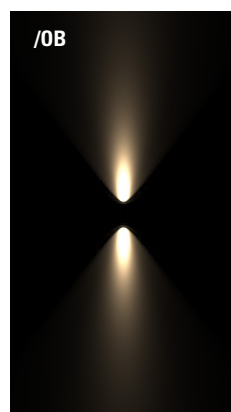


Extra Wide Beam

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: LD10236-E3-350/LW30/NB/Silver Anodised

Light engine & drive current

LED colour

Beam angle

Finish

LD10236 - / / /

Ambient temperature key: 55°C

WHITE LED ENGINES



E3

55°C Ta	5W LED at 350mA	LD10236-E3-350
55°C Ta	7W LED at 500mA	LD10236-E3-500

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 Anodised



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

55°C Ta	3.5W LED at 350mA	LD10236-F1-350
55°C Ta	5W LED at 500mA	LD10236-F1-500
55°C Ta	7W LED at 700mA	LD10236-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

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.

ORDER CODES & OPTIONS

Example: LD10236-RGBW-350/38° Colour mix lens/Silver Anodised

Light engine & drive current		LED colour		Beam angle		Finish
LD10236 -	/		/		/	

COLOUR & DYNAMIC LED ENGINES

<div></div> <div>CLR</div>													
7W LED at 500mA	LD10236-CLR-500	Red	/LR	24° Medium	/MB	<div></div> <div>Paint Finish Silver Anodised</div>							
		Green	/LG	38° Wide	/WB								
		Blue	/LB	54° Extra wide	/WWB								
		Amber	/LA	20° x 46° Oval	/OB								
<div></div> <div>RGBW</div>													
5W LED at 350mA	LD10236-RGBW-350			38° Colour mix lens		<div></div> <div>Paint Finish Antique Bronze</div>							
7W LED at 500mA	LD10236-RGBW-500												
<div></div> <div>TW</div>													
3.5W LED at 350mA	LD10236-TW-350	Tunable White 2700K & 4000K (standard option)	/LW27 + LW40	24° Medium	/MB	<div></div> <div>Paint Finish Satin Antique Brass</div>							
		Tunable White 2700K & 5000K	/LW27 + LW50	38° Wide	/WB								
		Custom	/LW** + L**	54° Extra wide	/WWB								
				20° x 46° Oval	/OB								
						<div></div> <div>Paint Finish Satin Brass</div>							
						<div></div> <div>Paint Finish Black (RAL 9005)</div>							
						<div></div> <div>Paint Finish Anthracite Grey (RAL 7016)</div>							
						<div></div> <div>Paint Finish White (RAL 9016)</div>							
						<div></div> <div>Paint Finish RAL</div>							
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.													