lightplan

121 Clarke St. Northcote VIC (Typ Unit 1-5)

Katrina del Rosario
Client: Hina Panchal

brightgreen

Ground Floor

Electrical
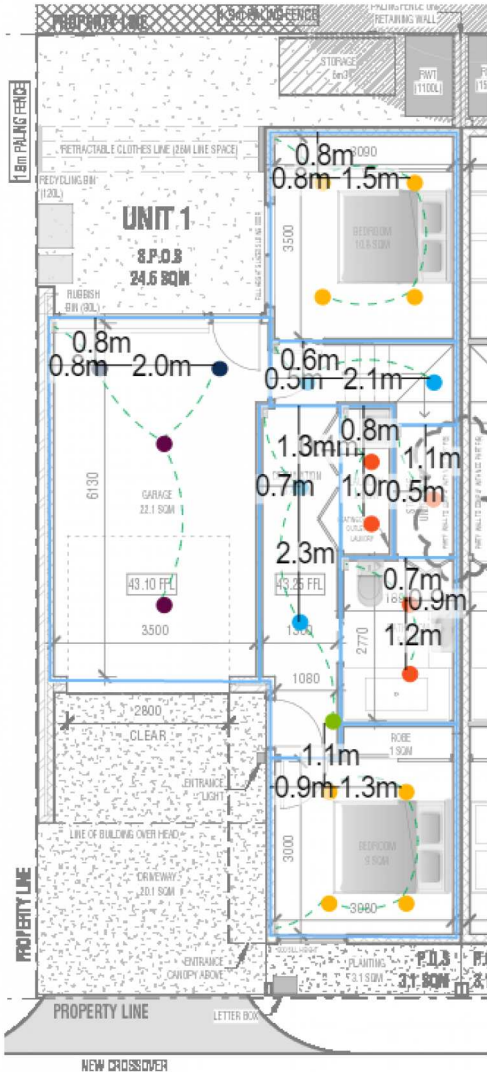
Total Power: 307.1W

Legal Power Limit: 5W p/sqm

Average Power: 4.6W p/sqm

Photometric

Recommended Lumens: 19896lm

Reached Lumens: 18342lm

Summary

Product	Units
🟠 D700+-CR-3K-55-W	8
light-switch	8
double-bed	2
🔴 D550.SH-CR-4K-36-W	5
kitchen-sink	1
toilet	1
bathroom-sink	1
🔵 D550.SH-CR-3K-36-W	4
🟢 W200-CR-3K-9075-W	1
🟣 SL3500-RT-4K-110-W	2
🔵 D900+-CR-5K-55-W	2
Wiring	~31.67m

Lighting Design	PREPARE FOR: Ground Floor	Client: Hina Panchal	Designer: Katrina del Rosario
		Date: 03/03/2016	Contact:
		Square Metres: 67.2sqm	Email: katrina@brightgreen.com

Summary

Ground Floor - Bedroom 1

Electrical

Total Power: 56W

Recommended Wattage: 54.5W

Average Power: 5.1W p/sqm

Photometric

Recommended Lumens: 3049lm

Reached Lumens: 3120lm

Reflectivity: Light

Assets

d700+-cr-3k-55-w: 4

light-switch: 1

double-bed: 1

Ground Floor - Laundry

Electrical

Total Power: 18W

Recommended Wattage: 11.5W

Average Power: 7.8W p/sqm

Photometric

Recommended Lumens: 1513lm

Reached Lumens: 1100lm

Reflectivity: Medium

Assets

d550.sh-cr-4k-36-w: 2

light-switch: 1

kitchen-sink: 1

Ground Floor - Storage

Electrical

Total Power: 9W

Recommended Wattage: 12W

Average Power: 3.8W p/sqm

Photometric

Recommended Lumens: 578lm

Reached Lumens: 550lm

Reflectivity: Dark

Assets

d550.sh-cr-4k-36-w: 1

light-switch: 1

Summary

Ground Floor - Bathroom

Electrical

Total Power: 18W

Recommended Wattage: 27W

Average Power: 3.3W p/sqm

Photometric

Recommended Lumens: 1509lm

Reached Lumens: 1100lm

Reflectivity: Light

Assets

d550.sh-cr-4k-36-w: 2

light-switch: 1

toilet: 1

bathroom-sink: 1

Ground Floor - Hallway

Electrical

Total Power: 23.5W

Recommended Wattage: 40W

Average Power: 2.9W p/sqm

Photometric

Recommended Lumens: 979lm

Reached Lumens: 1300lm

Reflectivity: Dark

Assets

d550.sh-cr-3k-36-w: 2

w200-cr-3k-9075-w: 1

light-switch: 1

Ground Floor - Bedroom 2

Electrical

Total Power: 56W

Recommended Wattage: 56W

Average Power: 5W p/sqm

Photometric

Recommended Lumens: 3121lm

Reached Lumens: 3120lm

Reflectivity: Light

Assets

d700+-cr-3k-55-w: 4

light-switch: 1

double-bed: 1

Summary

Ground Floor - Garage

Electrical

Total Power: 108.6W

Recommended Wattage: 67.8W

Average Power: 4.8W p/sqm

Photometric

Recommended Lumens: 8082lm

Reached Lumens: 6952lm

Reflectivity: Medium

Assets

sl3500-rt-4k-110-w: 2

d900+-cr-5k-55-w: 2

light-switch: 1

Ground Floor - Stairway

Electrical

Total Power: 18W

Recommended Wattage: 22W

Average Power: 4.1W p/sqm

Photometric

Recommended Lumens: 1065lm

Reached Lumens: 1100lm

Reflectivity: Dark

Assets

d550.sh-cr-3k-36-w: 2

light-switch: 1

First Level

First Level summary

Electrical

Total Power: 209.5W

Legal Power Limit: 5W p/sqm

Average Power: 3.8W p/sqm

Photometric

Recommended Lumens: 12281lm

Reached Lumens: 11989lm

Summary

Product	Units
🟠 D700+-CR-3K-55-W	4
light-switch	6
double-bed	1
🔴 D900-CR-4K-45-W	1
toilet	1
bathroom-sink	1
🔴 D900+-CR-3K-45-W	4
couch	1
🟡 D900.SH-CR-4K-45-W	2
🟢 W200-CR-3K-9075-W	1
🔵 D550.SH-CR-3K-36-W	2
🔴 P900-CR-3K-45-W	1
Wiring	~24.14m

Lighting Design	PREPARE FOR: First Level	Client: Hina Panchal	Designer: Katrina del Rosario
		Date: 03/03/2016	Contact:
		Square Metres: 55.8sqm	Email: katrina@brightgreen.com

Summary

First Level - Bedroom

Electrical

Total Power: 56W

Recommended Wattage: 56W

Average Power: 5W p/sqm

Photometric

Recommended Lumens: 3111lm

Reached Lumens: 3120lm

Reflectivity: Light

Assets

d700+-cr-3k-55-w: 4

light-switch: 1

double-bed: 1

First Level - Bathroom

Electrical

Total Power: 15.7W

Recommended Wattage: 19W

Average Power: 4.1W p/sqm

Photometric

Recommended Lumens: 1278lm

Reached Lumens: 1025lm

Reflectivity: Medium

Assets

d900-cr-4k-45-w: 1

light-switch: 1

toilet: 1

bathroom-sink: 1

First Level - Living Room

Electrical

Total Power: 65.2W

Recommended Wattage: 120W

Average Power: 2.7W p/sqm

Photometric

Recommended Lumens: 4458lm

Reached Lumens: 4020lm

Reflectivity: Light

Assets

d900+-cr-3k-45-w: 4

light-switch: 1

couch: 1

Summary

First Level - S.P.O.S.

Electrical

Total Power: 32.6W

Recommended Wattage: 29.5W

Average Power: 5.5W p/sqm

Photometric

Recommended Lumens: 1742lm

Reached Lumens: 1624lm

Reflectivity: Light

Assets

d900.sh-cr-4k-45-w: 2

light-switch: 1

First Level - Hallway

Electrical

Total Power: 23.5W

Recommended Wattage: 39W

Average Power: 3W p/sqm

Photometric

Recommended Lumens: 952lm

Reached Lumens: 1300lm

Reflectivity: Dark

Assets

w200-cr-3k-9075-w: 1

d550.sh-cr-3k-36-w: 2

light-switch: 1

First Level - Stairway

Electrical

Total Power: 16.5W

Recommended Wattage: 15.5W

Average Power: 5.3W p/sqm

Photometric

Recommended Lumens: 740lm

Reached Lumens: 900lm

Reflectivity: Dark

Assets

p900-cr-3k-45-w: 1

light-switch: 1

Summary

Second Level

Second Level summary

Electrical

Total Power: 58.1W

Legal Power Limit: 5W p/sqm

Average Power: 3.8W p/sqm

Photometric

Recommended Lumens: 3174lm

Reached Lumens: 3460lm

Summary

Product	Units
🔴 D550.SH-CR-4K-36-W	1
light-switch	3
toilet	1
bathroom-sink	1
🔴 P900-CR-3K-45-W	1
🔴 D900+-CR-3K-45-W	2
couch	2
small-table	1
Wiring	~6.82m

UNIT 1

Lighting Design	PREPARE FOR: Second Level	Client: Hina Panchal	Designer: Katrina del Rosario
		Date: 03/03/2016	Contact:
		Square Metres: 15.1sqm	Email: katrina@brightgreen.com

Summary

Second Level - Bathroom

Electrical

Total Power: 9W

Recommended Wattage: 10.5W

Average Power: 4.3W p/sqm

Photometric

Recommended Lumens: 589lm

Reached Lumens: 550lm

Reflectivity: Light

Assets

d550.sh-cr-4k-36-w: 1

light-switch: 1

toilet: 1

bathroom-sink: 1

Second Level - Stairway

Electrical

Total Power: 16.5W

Recommended Wattage: 14.5W

Average Power: 5.7W p/sqm

Photometric

Recommended Lumens: 704lm

Reached Lumens: 900lm

Reflectivity: Dark

Assets

p900-cr-3k-45-w: 1

light-switch: 1

Second Level - Living Room

Electrical

Total Power: 32.6W

Recommended Wattage: 50.5W

Average Power: 3.2W p/sqm

Photometric

Recommended Lumens: 1881lm

Reached Lumens: 2010lm

Reflectivity: Light

Assets

d900+-cr-3k-45-w: 2

light-switch: 1

couch: 2

small-table: 1

Notes

1. All D550 SH Curve indicated on plan shall be replaced with the D550 Curve. D550 SH Curve only serve as representation for the D550 Curve to work around some issues with the program.

2. Consistency with lighting solutions is a high priority in semi-modular projects such as this one. Our lighting suggestions, then, will be based on the type of space served by the lights.

3. Garages shall have SL3500 shop lights as main lighting, with 55-degree D900+ Curve fixtures as supplement for accessory areas (Shelves, Utility, Recycle Bin, etc)

4. Hallways are provided with D550 Curve fixtures in 3000K, with additional W200 Curve wall lights for Entries facing a wall.

5. Stairways shall have P900 Curve pendant lights overhead above the mid-height stair landings.

6. Utility spaces (Laundry, Storage) are provided with D550 Curve downlights in 4000K for task lighting

7. Bathrooms shall either be provided with D900 Classic Curve downlights in 4000K for those with larger floor area, or D550 Curve downlights in 4000K for those with smaller floor area.

8. Living Room and Kitchens shall be provided with the D900+ Curve downlights in 3000K, providing bright enough light for different types activities. Shall there be overhead cupboards at the Kitchen, placing LED strip lights under these cupboards is also highly recommended.

9. Bedrooms shall have D700+ downlights in 3000K for softer lighting, ideal for private spaces.

10. Where a balcony is covered, D900 SH Curve surface-mounted downlights are suggested.

D900 Curve LED downlight
Datasheet

Product codes

Unit:	Family:	Colour temp. (K):	Beam angle (°):	Colour:
D900	CR	3K	45	S (Silver)
		4K	55	W (White)

Photometrics

Lumen output: 1005lm
Colour temp.: 3000K
Efficacy: 64lm/W
Beam angle: 45°
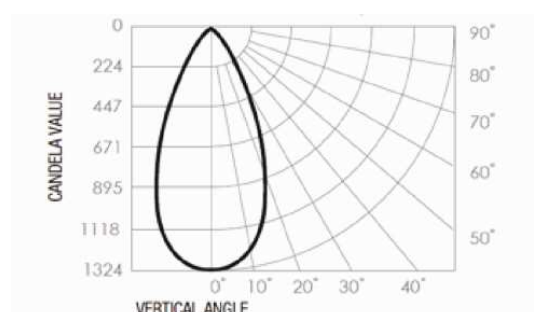
Lumen output: 1015lm
Colour temp.: 3000K
Efficacy: 65lm/W
Beam angle: 55°

Dimensions (mm)

Front view

Side view

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Electrical

Input voltage:	Power usage:	Driver power factor:	IP rating:	Surge protection:
220-240V	15.7W	0.88	IP44	3100

Cable length:	Dimmable:	Driver:
1.5m	Yes	BG-018BSD

Operational

Operating temp.:	Average temp.:	Ambient temp.:	Lifetime:	Thermal rating:
-30 to 81ºC	56ºC	-28 to 70ºC	70000 hrs (@TA25)	IC

Physical

Weight:	Gimbal angle:	Warranty:
472g	±15º	7 years

Installation

Step 1
Using a 92mm holesaw, cut a hole in the ceiling at the desired location
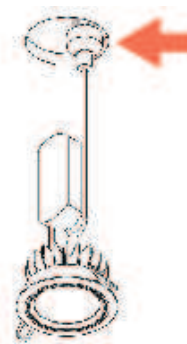
Step 2
Plug the driver to a mains power socked located in the ceiling cavity

Step 3
Pull back the springs and insert the luminaire in the hole

Step 4
Installation complete

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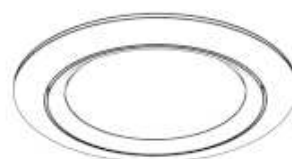
W200 Curve LED wall light
Datasheet

TRU COLOUR

Product codes

Unit:	Family:	Colour temp. (K):	Beam angle (°):	Colour:
W200	CR	3K	9075	S (Silver)
				W (White)

Photometrics
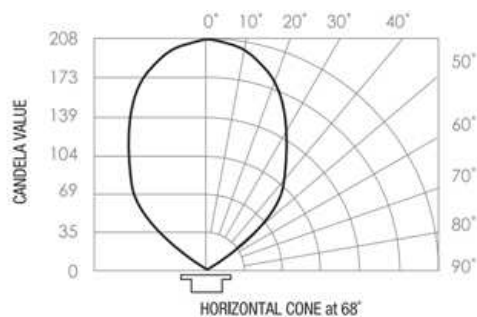
Lumen output: 200lm
Colour temp.: 3000K
Efficacy: 36lm/W
Beam angle: 90/75°

Dimensions (mm)

Front view

Side view

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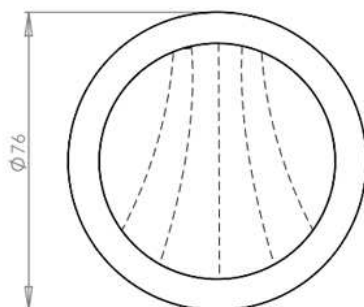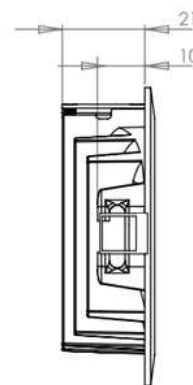
Electrical

Input voltage: 220-240V	**Power usage:** 5.5W	**Driver power factor:** 0.93	**IP rating:** IP40	**Surge protection:** 3100
Cable length: 1.5m	**Dimmable:** Yes	**Driver:** BG-DRV:B-200/7		

Operational

Operating temp.: -30 to 85ºC	**Average temp.:** 56ºC	**Ambient temp.:** -28 to 65ºC	**Lifetime:** 70000 hrs (@TA25)	**Thermal rating:** IC

Physical

Weight: 320g	**Gimbal angle:** N/A	**Warranty:** 7 years

Compatibility

Recommended Dimmers:
Clipsal, Universal
Clipsal, Trailing Edge
Legrand 400T, Trailing Edge

*Compatible with many centralised control systems such as Clipsal C-Bus. All systems are unique, please call 1300 672 499 for advice on your installation.

Installation

Step 1
Cut a 67mm dia hole into the ceiling or wall at the desired location.
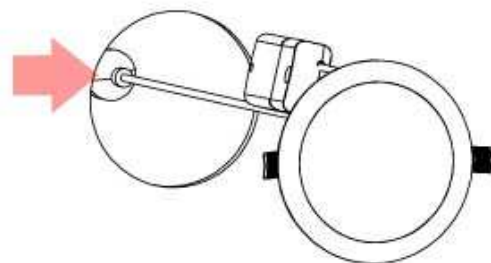
Step 2
Plug the driver to a mains power socket located in the wall or ceiling.

Step 3
Pull the springs up and insert the luminaire in the hole.

Step 4
Installation complete.

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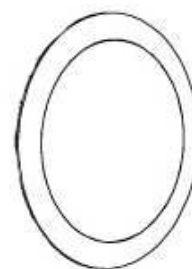
D900+ LED downlight
Datasheet

Product codes

Unit:	Family:	Colour temp. (K):	Beam angle (°):	Colour:
D900+	CR	3K	45	W (White)
		5K	55	

Photometrics
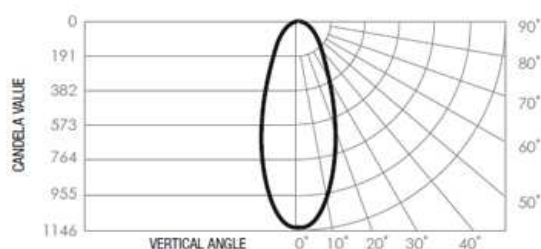
Lumen output: 1005lm
**Colour temp.:** 3000K
Efficacy: 62lm/W
Beam angle: 45°
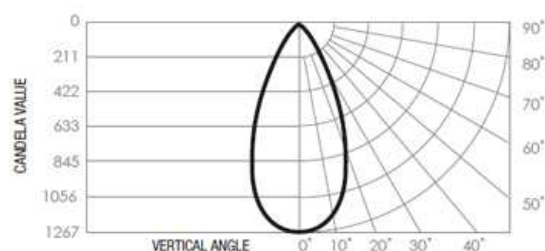
Lumen output: 1015lm
Colour temp.: 3000K
Efficacy: 62lm/W
Beam angle: 55°

Dimensions (mm)

Front view

Side view

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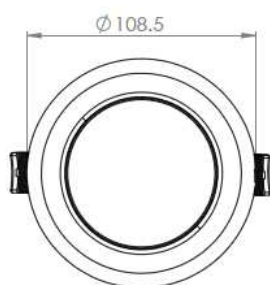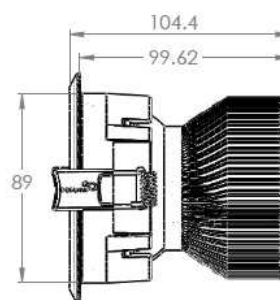
Electrical

Input voltage:
220-240V

Power usage:
16.3W

Driver power factor:
>0.98

IP rating:
IP44

Surge protection:
3100

Cable length:
1.5m

Dimmable:
Yes

Driver:
DRV900X:350-15

Operational

Operating temp.:
-30 to 81ºC

Average temp.:
56ºC

Ambient temp.:
-28 to 70ºC

Lifetime:
70000 hrs (@TA25) or IC
30000 hrs (@TA25)

Thermal rating:

Physical

Weight:
660g

Gimbal angle:
Universal

Warranty:
7 years

Compatibility

Recommended Dimmers:
Clipsal, Universal
Clipsal, Trailing Edge
Legrand 400T, Trailing Edge

*Compatible with many centralised control systems such as Clipsal C-Bus. All systems are unique, please call 1300 672 499 for advice on your installation.

Installation

Step 1
Using a 92mm holesaw, cut a hole in the ceiling at the desired location.

Step 2
Plug the driver to a mains power socket located in the ceiling.
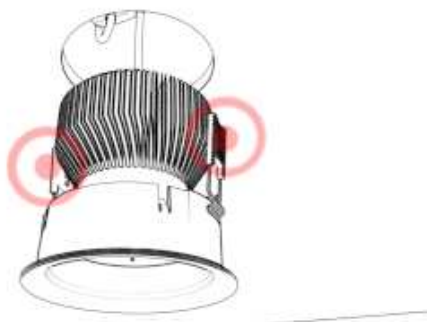
Step 3
Pull the springs up and insert the luminaire in the hole.

Step 4
For a trimless installation, no further steps are required.

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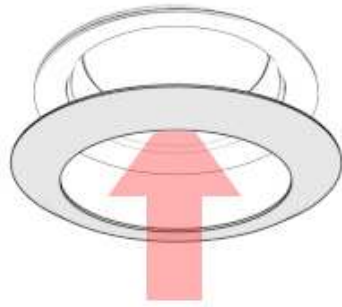
Step 7
Optional fascias can be interchanged.
Align the fascia with the fixture's lip.
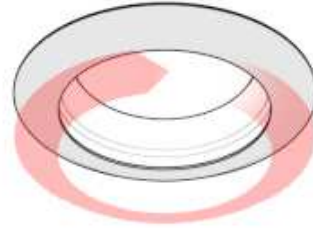
Step 8
Screw the fascia clock wise until firmly in place.
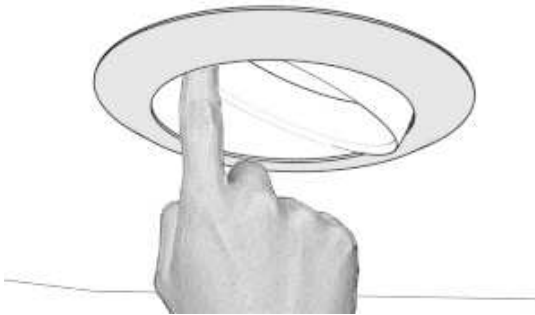
Step 15
Orientate the light beam direction by tilting the
luminaire.

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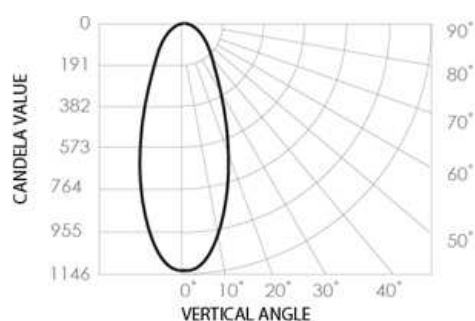# D900.SH Curve LED downlight
Datasheet

Product codes

Unit:	Family:	Colour temp. (K):	Beam angle (°):	Colour:
D900.SH	CR	3K	45	B (Black)
		4K		W (White)

Photometrics

Lumen output: 812lm
Colour temp.: 4000K
Efficacy: 50lm/W
Beam angle: 45°

Dimensions (mm)

Front view

Side view

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Electrical

Input voltage:	Power usage:	Driver power factor:	IP rating:	Surge protection:
220-240V	16.3W	0.93	IP42	3100

Cable length:	Dimmable:	Driver:
0.2m	Yes	DRV900S:350-13

Operational

Operating temp.:	Average temp.:	Ambient temp.:	Lifetime:
-10 to 90ºC	50ºC	-28 to 65ºC	70000 hrs (@TA25)

Physical

Weight:	Gimbal angle:	Warranty:
700g	N/A	7 years

Compatibility

Recommended Dimmers:
Clipsal, Universal
Clipsal, Trailing Edge
Legrand 400T, Trailing Edge

*Compatible with many centralised control systems such as Clipsal C-Bus. All systems are unique, please call 1300 672 499 for advice on your installation.

Installation

Step 1
Disconnect all power at the switchboard. Release the base plate from the D900 SH body by unscrewing the 3 retaining grub screws, then feed the power cable through the base plate and attach base plate to the roof * for more information refer to D900 SH installation guide.
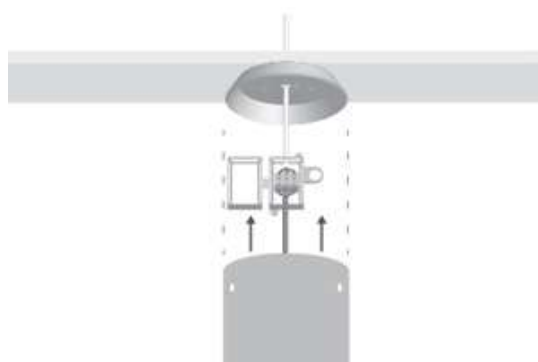
Step 2
Open the juntion box and connect the power cable to the junction box. Re-attach cover of junction box inline with Australian standards.
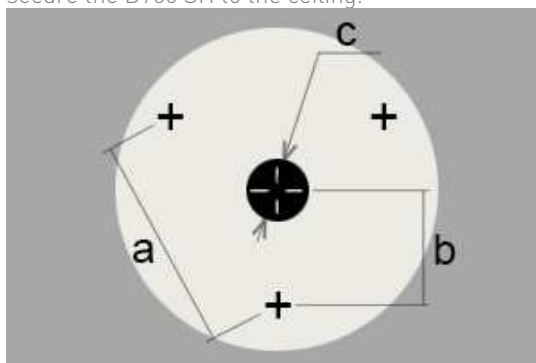
brightgreen™
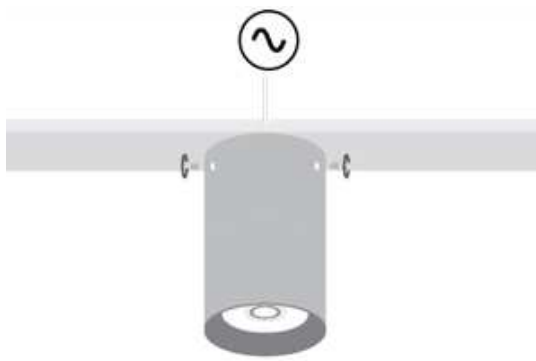
Step 3
Align and attach the D900 SH body to the base plate then screw in the three grub screws to secure the D900 SH to the ceiling.

Step 4
Installation complete.

Step 7
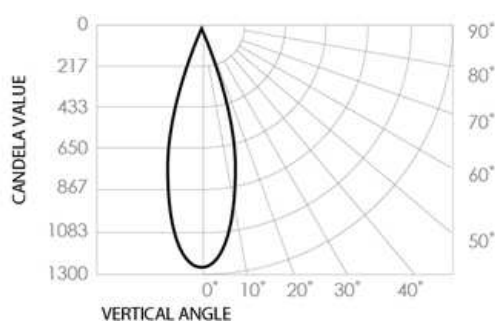Ceiling mount hole piloting.
a=51.5mm ; b=29.5mm ; c=9mm

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D550.SH Curve LED downlight
Datasheet

Product codes

Unit:	Family:	Colour temp. (K):	Beam angle (°):	Colour:
D550.SH	CR	3K	36	B (Black)
		4K		W (White)

Photometrics

Lumen output: 550lm
Colour temp.: 3000K
Efficacy: 61lm/W
Beam angle: 36°

Dimensions (mm)

Front view

Side view

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Electrical

Input voltage:	Power usage:	Driver power factor:	IP rating:	Surge protection:
220-240V	9W	0.93	IP44	3100

Cable length:	Dimmable:	Driver:
1.5m	Yes	ED-CU3506HPA

Operational

Operating temp.:	Average temp.:	Ambient temp.:	Lifetime:
-30 to 85ºC	64ºC	-28 to 65ºC	70000 hrs (@TA25)

Physical

Weight:	Gimbal angle:	Warranty:
310g	±15º	7 years

Compatibility

Recommended Dimmers:
Clipsal, Universal
Clipsal, Trailing Edge
Legrand 400T, Trailing Edge

*Compatible with many centralised control systems such as Clipsal C-Bus. All systems are unique, please call 1300 672 499 for advice on your installation.
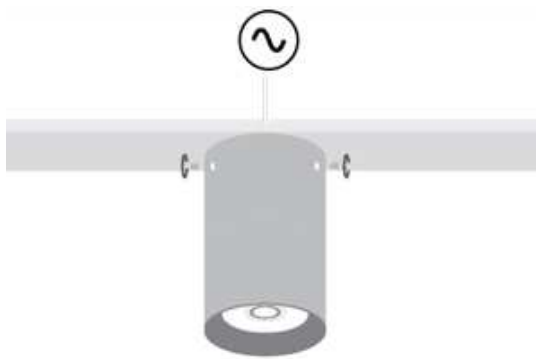
Installation

Step 1
Disconnect all power at the switchboard. Release the base plate from the D900 SH body by unscrewing the 3 retaining grub screws, then feed the power cable through the base plate and attach base plate to the roof* for more information refer to D550 SH installation guide.
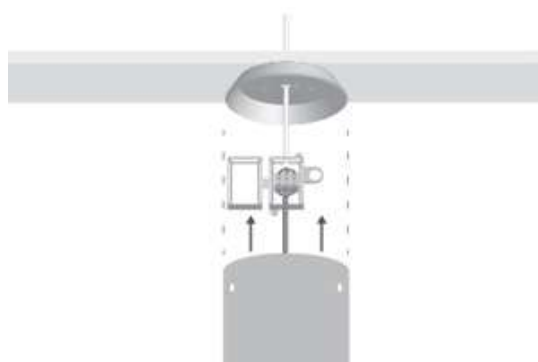
Step 2
Open the juntion box and connect the power cable to the junction box. Re-attach cover of junction box inline with Australian standards.
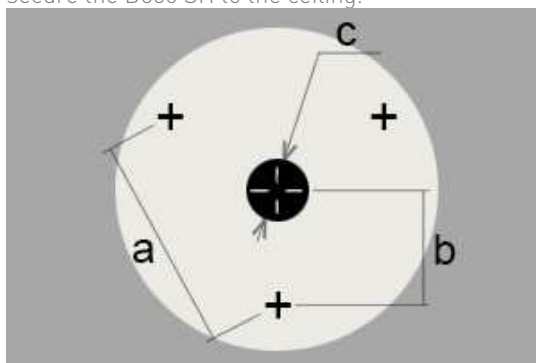
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Step 3
Align and attach the D550 SH body to the base plate then screw in the three grub screws to secure the D550 SH to the ceiling.

Step 4
Installation complete.

Step 7
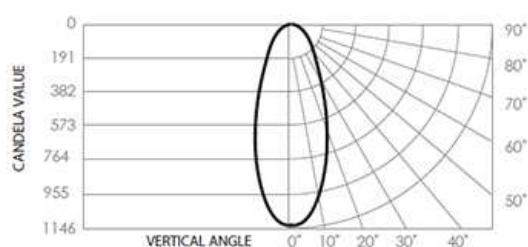Ceiling mount hole piloting.
a=33.5mm ; b=19mm ; c=9mm

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P900 Curve LED pendant
Datasheet

Product codes

Unit:	Family:	Colour temp. (K):	Beam angle (°):	Colour:
P900	CR	3K	45	B (Black)
				W (White)

Photometrics

Lumen output: 900lm
Colour temp.: 3000K
Efficacy: 55lm/W
Beam angle: 45°

Dimensions (mm)

Front view

Ø98.50

Side view

97.50
19.80
255

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Electrical

Input voltage:	Power usage:	Driver power factor:	IP rating:	Surge protection:
220-240V	16.5W	>0.9	IP40	3100

Cable length:	Dimmable:	Driver:
1.2m	Yes	DRV900S:350-13

Operational

Operating temp.:	Average temp.:	Ambient temp.:	Lifetime:
-30 to 81ºC	56ºC	-28 to 60ºC	70000 hrs (@TA25)

Physical

| Weight:	Gimbal angle:	Warranty:
730g	N/A	7 years

Compatibility

Recommended Dimmers:
Universal Dimmers
Trailing Edge Dimmers
Leading Edge Dimmers
Dali Dimmers (available on request)

*Compatible with many centralised control systems such as Clipsal C-Bus. All systems are unique, please call 1300 672 499 for advice on your installation.
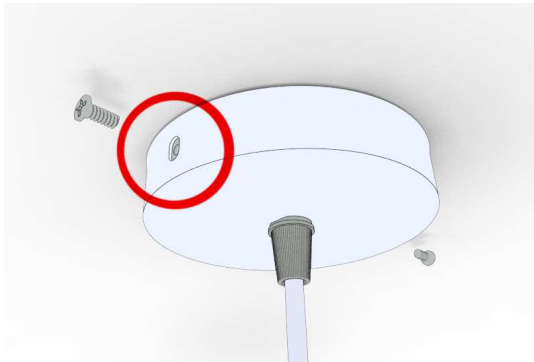
Installation

Step 1
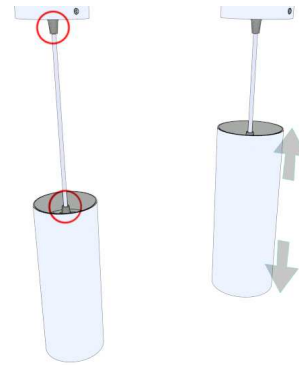Fix the mounting plate to the ceiling using two screws.
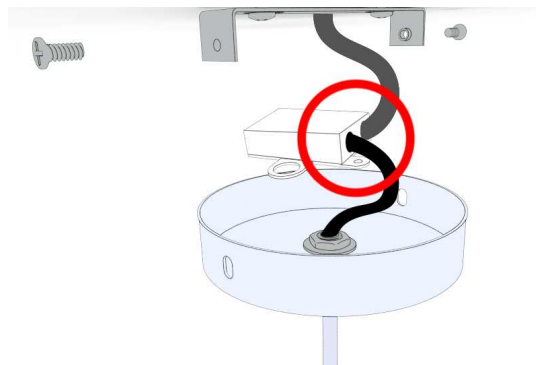
Step 2
Connect AC wires using the junction box.

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Step 3
Mount the cover plate and fasten the two side screws.

Step 4
Adjust the luminaire height, buy releasing the cord retention. Once the desired height is achieved, fasten the retention.

Step 7
Installation complete, the P900 CR in now operational.

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D700+ LED downlight
Datasheet

TRU COLOUR

Product codes

Unit:	Family:	Colour temp. (K):	Beam angle (°):	Colour:
D700+	CR	3K	55	B (Black)
				W (White)

Photometrics

CD:0
200
400
635
800
1000
1270

CANDELA VALUE

90° 80° 70° 60° 50°

0° 10° 20° 30° 40°

VERTICAL ANGLE
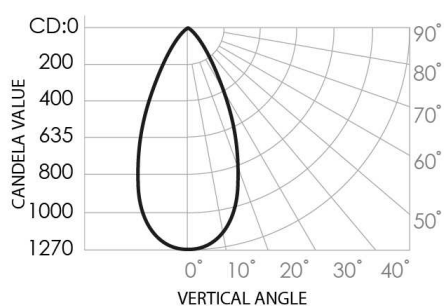
Lumen output: 780lm
Colour temp.: 3000K
Efficacy: 56lm/W
Beam angle: 55°

Dimensions (mm)

Front view

Ø 102.7

Side view

79.60

89.8

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Electrical

Input voltage:	Power usage:	Driver power factor:	IP rating:	Surge protection:
220-240V	14W	0.88	IP20	Yes

Cable length:	Dimmable:	Driver:
1.2m	Yes	BG-DRV:A-700/10

Operational

Average temp.:	Ambient temp.:	Lifetime:	Thermal rating:
65ºC	-28 to 60ºC	40000 hrs (@TA25)	IC

Physical

Weight:	Gimbal angle:	Warranty:
1800g or 490g	Universal	7 years

Compatibility

Recommended Dimmers:
Clipsal, Universal
Clipsal, Trailing Edge
Legrand 400T, Trailing Edge

*Compatible with many centralised control systems such as Clipsal C-Bus. All systems are unique, please call 1300 672 499 for advice on your installation.
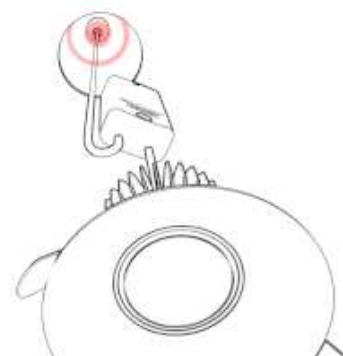
Installation

Step 1
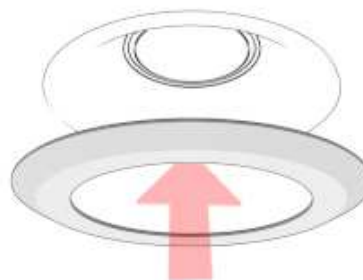Using a 92mm holesaw, cut a hole in the desired location.

Step 2
Plug the driver into a 220-240VAC mains socket, located in the ceiling cavity.

Step 3
Lift the two springs and insert the luminaire in the ceiling hole.

Step 4
Installing fascias is optional.
Align the fascia with the fixture.

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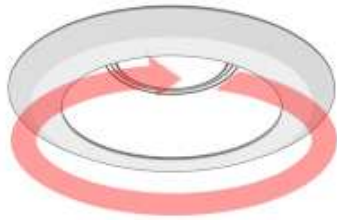
Step 7
Thread the fascia clockwise until firmly in place.
Installation complete.

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SL3500 Retrofit LED shop light
Datasheet

TRU COLOUR

Product codes

Unit:	Family:	Colour temp. (K):	Beam angle (°):	Colour:
SL3500	RT	3K	110	W (White)
		4K		
		6.5K		

Photometrics
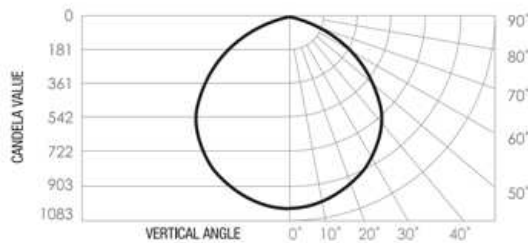
Lumen output: 2420lm
Colour temp.: 4000K
Efficacy: 64lm/W
Beam angle: 110°

Dimensions (mm)

Front view
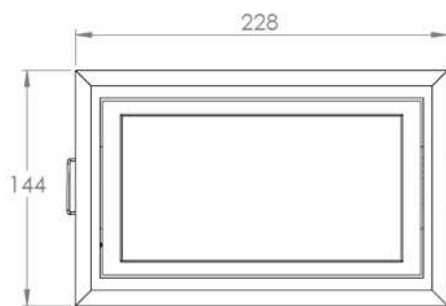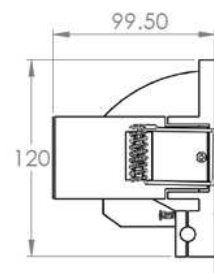
228

144

Side view

99.50

120

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Electrical

Input voltage:	Power usage:	Driver power factor:	IP rating:	Surge protection:
100-240V	38W	>0.95	IP20	3100

Cable length:	Dimmable:	Driver:
1.6m	No	BG-DRV:D-3500/38

Operational

Operating temp.:	Average temp.:	Ambient temp.:	Lifetime:
-10 to 78ºC	53ºC	-28 to 50ºC	40000 hrs (@TA25)

Physical
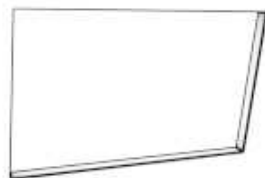
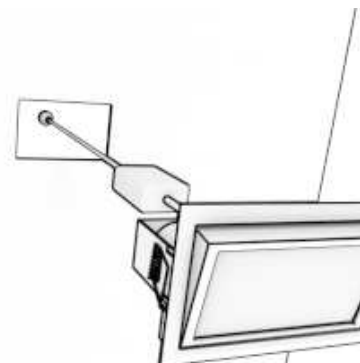| Weight:	Gimbal angle:	Warranty:
1800g	60º	3 years

Compatibility
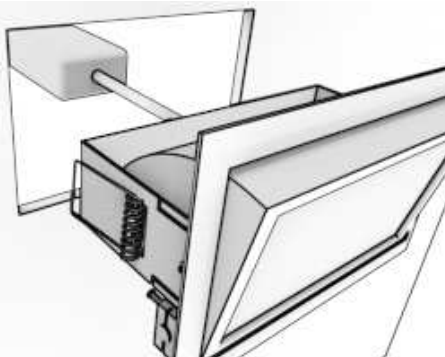
Recommended Dimmers:
N/A

Installation

Step 1
Cut a 220 X 125 mm rectangular cutout at the desired location.

Step 2
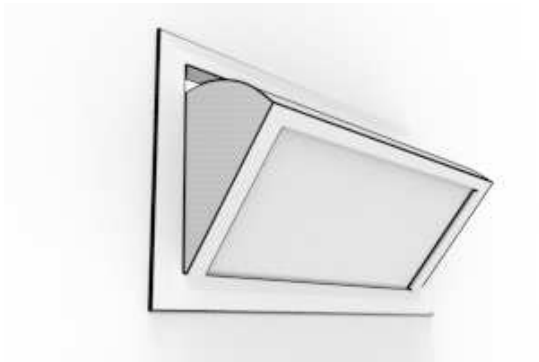Plug the driver to a 220VAC mains power socket, located inside the wall/ceiling cavity.

Step 3
Lift the springs up and insert the SL3500 inside the cutout.

Step 4
Installation complete.

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Step 7
Tilt the luminaire in order to orientate the light beam.

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