

DOT

D O W N L I G H T S



2017

DOT **LED**

DOT
DOWNLIGHTS





The DOT Downlight Range was introduced in 1983. Since its launch, it has evolved primarily in response to suggestions and feedback from building owners, electrical contractors, lighting designers and distributors of the Range.

During the design and development of any segment of the DOT range, each component is meticulously scrutinized. The raw materials used are the highest quality available; injection moulded components are continually upgraded to take full advantage of ongoing developments in thermoplastics.

Heat retention within each downlight is minimized to ensure component longevity and extended lamp life.

This commitment to quality throughout its design, development and production, is evident in the DOT range's construction, installation and performance.

... the DOT construction system will also impress



We recognize our responsibility to our communities and future generations.

We are committed to providing high quality, long lasting, energy saving products and services to our customers. We endeavor to minimize and continue to reduce any negative impact our Company has on our environment and on the Earth.

We undertake to:

- Source components locally whenever possible, reducing transport related impacts.
- We will quickly incorporate the latest energy efficient technologies in our range of products.
- Work on a “made to order” basis and optimize space used during transport, reducing stock and waste materials.
- Replace PVC cables within our products with Low Smoke, Zero Halogen cables.
- Increase recycled content in packaging and reduce overall packaging requirements.
- Ensure all electronic control gear supplied with our product is RoHS compliant which prohibits/restricts the use of certain hazardous substances.
- Establish warehousing, assembly and distribution centres in countries close to our customers to reduce shipping volumes and cost.



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Due to continuous product improvements, changes in design may be made without notice.

The DOT range of downlights is protected by international patents and intellectual property rights.



The DOT Range of Downlights offers benefits and lighting solutions to all segments of the industry

Building Owners

The evolution of the range and commitment to its ongoing development resulted in the introduction of the AXLock system. The AXLock system allows building owners to significantly alter lighting within building spaces by simply changing accessories fitted to downlights rather than replacing complete lighting installations; this is a cost effective means to future proof lighting requirements.

Lighting Designers

Lighting Designers can choose from a large selection of downlights with a variety of light sources and three reflector finishes.

There are also three electronic control gear dimming options available with compact fluorescent models.

A comprehensive selection of AXLock accessories then allows designers to alter light produced by the downlights. Decorative glass, a variety of lenses and trim colours add further options to customize installations.

Electrical Contractors

Electrical contractors benefit from the ease of installing the DOT range. Downlight bodies are quickly mounted and if necessary removed (no tools are required) with the patented mounting system. Reflectors are also easily fitted by turning moulded reflector keys 180 degrees; the keys are part of the reflector assemblies and can not be misplaced or lost.

Downlight reflectors, accessories and ceiling plates can be fitted after ceiling surfaces have been painted therefore no masking for painting is necessary...

All AXLock Accessories are installed with a simple twist and lock movement, the same movement removes accessories for cleaning or re-lamping.

Distributors

The DOT AXLock system reduces the number of basic downlight models in the range. Cross vane and turbo louvres, recessed and flush mounted lenses are AXLock accessories and can be fitted to downlights after installation.

The AXLock system benefits distributors of the range by reducing inventory, enabling faster delivery times and offering a comprehensive range of downlights made to the highest standards at very competitive prices.



DOT LED

Lighting demands vary from project to project. Some require the best quality of light, others need maximum light output from their luminaires while a significant number of projects must have low “up front” costs.

The DOT LED Range offers four options to cater for these demands; they are EXCEL, PERFORMANCE, COLOUR and BASE. All options are available in three configurations – fully recessed, surface mounted and suspended.

EXCEL



DOT EXCEL LED

A combination of high colour rendition and performance ensures maximum light output with minimum effect on colour quality.

- High efficacy – up to 105 lumens/watt.
- High colour rendering (CRI \geq 92).
- Increased red tones (R9 \leq 63).
- Minimum colour variation (2 MacAdam Step).

Applications: Medical, Commercial Spaces, Receptions, Meeting Rooms, Hotel Spaces, Residential.

PERFORMANCE



DOT PERFORMANCE LED

Maximum light output, highly efficient option producing in excess of 7,000 lumens.

- Superior efficacy – up to 122 lumens/watt.
- Colour rendering (CRI \geq 83).
- Colour variation (3 MacAdam Step).

Applications: Commercial Spaces, Receptions, Meeting rooms, Hotel Spaces, Residential.

COLOUR



DOT COLOUR LED

Superior colour accuracy and high saturated red tones ensure optimum light quality over the entire lifetime.

- High colour rendering.
- Increased red tones (R9 \leq 85).
- Minimum colour variation (2 MacAdam Step).
- Low Cyanosis Observation Index (COI – 0.76).

Applications: Medical Installations, Commercial Spaces, Receptions, Galleries, Retail Spaces.

BASE



DOT BASE LED

Entry level (low cost) LED downlights which offer the standard DOT ease of installation system and 5 year warranty.

- Colour rendering (CRI \geq 80).
- Efficiency – up to 102 lumens/watt.
- Colour variation (4 MacAdam Step).

Applications: Retrofit replacement for CFL downlights, General lighting.

LED Typical Componentry

Passive Cooling System

High temperature thermoplastic remote driver housing

Anodised, aluminium reflector: 99.98% purity

Downlight Installation

High Tensile Thermoplastic mounting leg.

Patented downlight mounting systems for easy tool-free installation and removal.

Suitable for 5 – 30mm ceiling thickness.

Downlight Removal

Remove lamp(s) and reflector

Unclip torsion Mounting Springs on Mounting Legs

Gently pull downlight out of ceiling

NOTE
Before re-installing downlight, clip Torsion Springs back into Mounting Legs

LED Engine

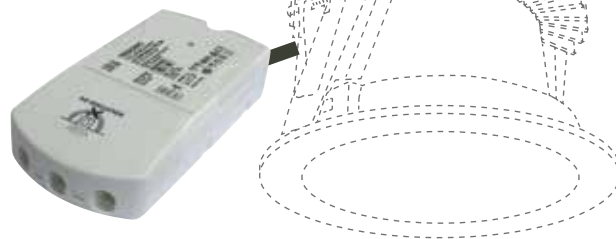
CREE COB Technology
The latest CREE COB technology offers a variety high performance lumen outputs, colour temperatures and CRI.

Cooling Systems Options
A DOT proprietary component designed specifically for LED sources.
The Passive Cooling System uses natural convection – designed to allow air to flow upward through the heat sink.

LED Remote Driver Options

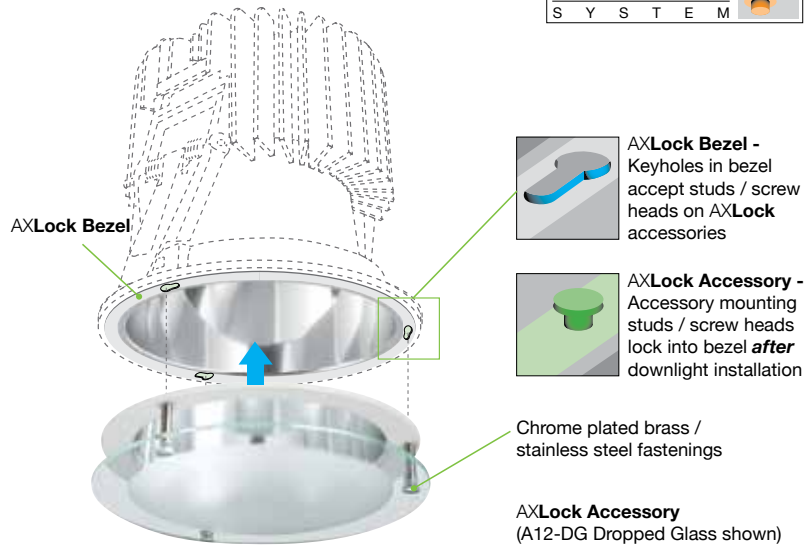
Dimming Options Available

- Analogue dimming 1-10 volt **AD**
- DALI / switchDIM / DSI dimming **DALI**
- Phase cutting (chopping) dimming **PHD**



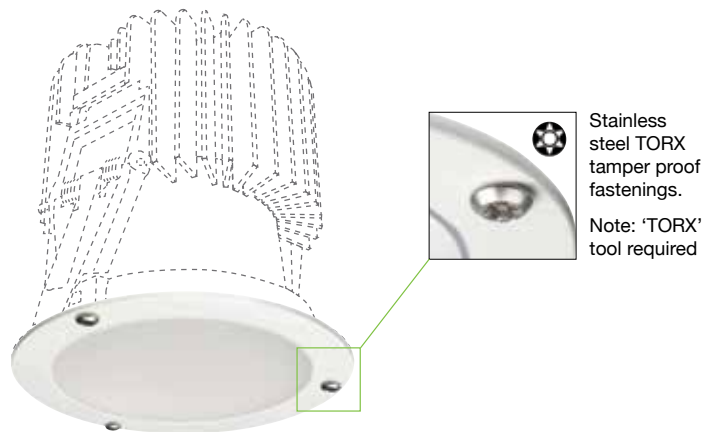
AXLock Accessory System

Fitted to downlight **after** installation



Secured Access Accessories

Fitted to downlight **before** installation



DOT LED Recessed – Round

				EXCEL 	PERFORMANCE 	COLOUR 	BASE 		
DOT 9100		122mm			105mm dia. o/a 92mm dia. hole	DOT 9100XL page 14	DOT 9100P page 15	-	DOT 9100B page 16
DOT 9700		146mm			155mm dia. o/a 140mm dia. hole	DOT 9700XL page 23	DOT 9700P page 24	-	DOT 9700B page 25
DOT 9900		180mm			192mm dia. o/a 175mm dia. hole	DOT 9900XL page 34	DOT 9900P page 35	-	-

DOT LED Recessed – Square

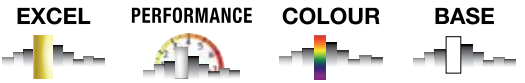
DOT 9400		122mm			118mm sq. o/a 95mm sq. hole	-	DOT 9400P page 42	DOT 9400C page 43	-
DOT 9800		146mm			164mm sq. o/a 146mm sq. hole	-	DOT 9800P page 48	DOT 9800C page 49	-

DOT LED Trimless

DOT 9100TL		140mm			105mm dia. o/a TrimLess - varies	DOT 9100TL page 53	-	-	-
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DOT LED Wallwasher

DOT 9900W		180mm			192mm dia. o/a 175mm dia. hole	-	DOT 9900WP page 57	-	-
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DOT LED Surface Mounted – Round

DOT 9100SM		185mm			DOT 9100SMXL page 62	DOT 9100SMP page 63	-	DOT 9100SMB page 64
DOT 9700SM		197mm			DOT 9700SMXL page 70	DOT 9700SMP page 71	-	DOT 9700SMB page 72
DOT 9900SM		231mm			DOT 9900SMXL page 80	DOT 9900SMC page 81	-	-

DOT LED Surface Mounted – Square

DOT 9400SM		185mm			-	DOT 9400SMP page 88	DOT 9400SMC page 89	-
DOT 9800SM		200mm			-	DOT 9800SMP page 92	DOT 9800SMC page 93	-

DOT LED Suspended

DOT 9100S		185mm			DOT 9100SXL page 98	DOT 9100SP page 99	-	-
DOT 9700S		197mm			DOT 9700SXL page 104	DOT 9700SP page 105	-	-
DOT 9900S		231mm			DOT 9900SXL page 114	DOT 9900SP page 115	-	-

RECESSED ROUND



DOT
9100



DOT
9700



DOT
9900

RECESSED ROUND



DOT 9100

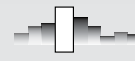
EXCEL



PERFORMANCE



BASE



RECESSED



105mm dia. o/a
92mm dia. hole



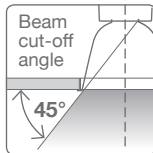
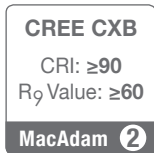
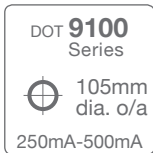
DOT 9100XL
1200-1700 LM
CREE CXB : CRI ≥92
MacAdam 2



DOT 9100P
1300-1800 LM
CREE CXB : CRI ≥80
MacAdam 2



DOT 9100B
1200-1700 LM
CREE CXA : CRI ≥80
MacAdam 3



REFLECTOR

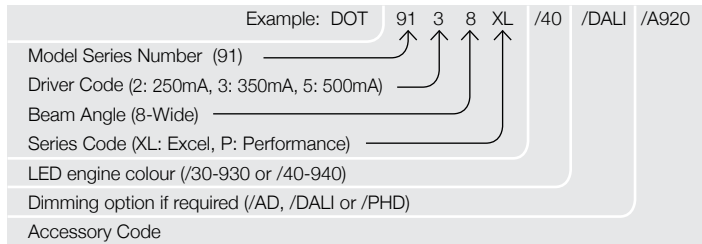


Round trim white A920/01 fitted to downlight as standard.

Silver Reflector		
Total Energy Consumption $P_L(W)$ – Refer LED Performance Guide below		
Weights	Luminaire Body	700 gms
	Remote Driver	100 gms
IEC 60598.1.2		Complies
AS/NZS60598.1.2		Complies
Cyanosis (Australia only)		4000k option approved
IP Rating		Refer Accessory

Standard Dimming Options Available		
- Analogue dimming 1-10 volt		AD
- DALI		DALI
- Phase cutting (chopping) dimming		PHD

ORDERING CODE FORMAT



LED GUIDE – DOT 9100XL EXCEL SERIES

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9128XL/30 ^A	250mA (2)	10.0	936	93.6	≥75,000
DOT 9128XL/40 ^A	250mA (2)	10.0	1051	105.0	≥75,000
DOT 9138XL/30 ^A	350mA (2)	14.0	1351	96.5	≥75,000
DOT 9138XL/40	350mA (2)	14.0	1447	103.0	≥75,000
DOT 9158XL/30 ^A	500mA (2)	21.0	1741	82.9	≥75,000
DOT 9158XL/40 ^A	500mA (2)	21.0	1954	93.0	≥75,000

^A Figures extrapolated / interpolated from data at other currents.

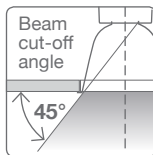
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

NOTE See following pages for Accessories and Photometric Data



DOT **9100**
Series
105mm
dia. o/a
250mA-500mA

CREE CXA
CRI: **≥80**
R_g Value: **≥15**
MacAdam 2



REFLECTOR



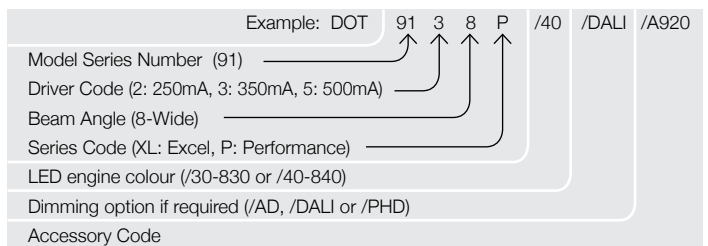
Round trim white A920/01 fitted to downlight as standard.

Silver Reflector		
Total Energy Consumption P _L (W) – Refer LED Performance Guide below		
Weights	Luminaire Body	700 gms
	Remote Driver	100 gms
IEC 60598.1.2		Complies
AS/NZS60598.1.2		Complies
IP Rating		Refer Accessory

Standard Dimming Options Available

- Analogue dimming 1-10 volt AD
- DALI DALI
- Phase cutting (chopping) dimming PHD

ORDERING CODE FORMAT



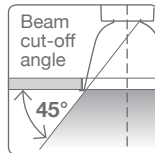
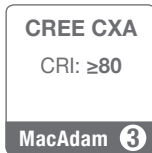
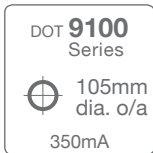
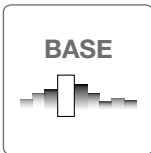
LED GUIDE – DOT 9100P PERFORMANCE SERIES

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9128P/30 ^A	250mA (2)	9.8	1103	112.5	≥75,000
DOT 9128P/40	250mA (2)	9.8	1185	121.0	≥75,000
DOT 9138P/30 ^A	350mA (3)	13.9	1518	109.2	≥75,000
DOT 9138P/40	350mA (3)	13.9	1624	117.0	≥75,000
DOT 9158P/30 ^A	500mA (5)	20.3	2051	101.0	≥75,000
DOT 9158P/40	500mA (5)	20.3	2194	108.0	≥75,000

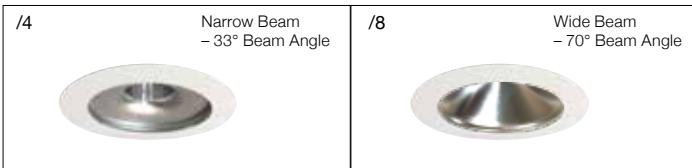
^A Figures extrapolated / interpolated from data at other currents.

^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

NOTE See following pages for Accessories and Photometric Data



REFLECTOR



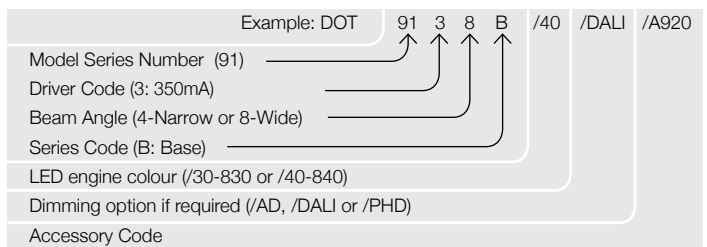
Round trim white A920/01 fitted to downlight as standard.

Silver Reflector – Narrow or Wide angle beam option		
Total Energy Consumption P _L (W) – Refer LED Performance Guide below		
Weights	Luminaire Body	700 gms
	Remote Driver	100 gms
IEC 60598.1.2		Complies
AS/NZS60598.1.2		Complies
IP Rating		Refer Accessory

Standard Dimming Options Available

- Analogue dimming 1-10 volt	AD
- DALI	DALI
- Phase cutting (chopping) dimming	PHD

ORDERING CODE FORMAT



LED GUIDE – DOT 9100B BASE SERIES

DOT Model No.	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9138B/30	350mA (3)	15.1	1124	74.6	≥51,000
DOT 9138B/40 ^A	350mA (3)	15.1	1190	78.8	≥51,000

^A Figures extrapolated / interpolated from data at other currents.

^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.



NOTE See following pages for Accessories and Photometric Data



105mm dia. o/a
92mm dia. hole



Accessories

AXLOCK ACCESSORIES

Fitted to downlight **after** installation

Accessory trims available

White /01 or Silver /55 or Black /11



	<p>A920 Round Ceiling Plate IP20 Moulded polycarbonate – 105mm dia. overall</p>		<p>A928 Square Ceiling Plate IP20 Moulded polycarbonate – 105mm square overall</p>
	<p>XL920 Round Ceiling Plate w/high light IP20 Moulded polycarbonate – 105mm dia. overall</p>		<p>XL921-DL Round Soft Diffusion Lens w/high light IP65 Moulded polycarbonate – 105mm dia. overall</p>
	<p>XL921-CL Round Flush Clear Lens w/high light IP65 Moulded polycarbonate – 105mm dia. overall</p>		<p>XL923 Round Washlite Lens w/high light IP65 Moulded polycarbonate – 105mm dia. overall</p>
	<p>A921-CL Round Flush Clear Lens IP65 Moulded polycarbonate – 105mm dia. overall</p>		<p>A922-CL Square Flush Clear Lens IP65 Moulded polycarbonate – 105mm square overall</p>
	<p>A921-DL Round Soft Diffusion Lens IP65 Moulded polycarbonate – 105mm dia. overall</p>		<p>A922-DL Square Soft Diffusion Lens IP65 Moulded polycarbonate – 105mm square overall</p>
	<p>A923 Round Washlite Lens IP65 Moulded polycarbonate – 105mm dia. overall</p>		<p>A924 Square Washlite Lens IP65 Moulded polycarbonate – 105mm square overall</p>
	<p>A927-FG Round Flush Glass IP54 5mm thick toughened glass with sandblasted centre. – 106mm dia. overall</p>		<p>A925-FG Square Flush Glass IP54 5mm thick toughened glass with sandblasted centre. – 106mm square overall</p>
	<p>A927-DG Round Dropped Glass IP20 5mm thick toughened glass with sandblasted centre. – 106mm dia. overall</p>		<p>A925-DG Square Dropped Glass IP20 5mm thick toughened glass with sandblasted centre. – 106mm square overall</p>
	<p>A926 Micro Baffle IP20 Moulded polycarbonate – 105mm dia. overall</p>		

DOT **9100** SERIES
RECESSED DOWNLIGHTS



105mm dia. o/a
92mm dia. hole



DOT **LED**

Secured Access Accessories


SECURED ACCESS
ACCESSORIES

Fitted to downlight **before** installation

Accessory trims available

White /01 or Silver /55 or Black /11



 TORX tamperproof fasteners

	<p>A921-CL/SA Round Clear Lens IP64 Moulded polycarbonate – 105mm dia. overall</p>		<p>A922-CL/SA Square Clear Lens IP64 Moulded polycarbonate – 105mm square overall</p>
	<p>A921-DL/SA Round Soft Diffusion Lens IP64 Moulded polycarbonate – 105mm dia. overall</p>		<p>A922-DL/SA Square Soft Diffusion Lens IP64 Moulded polycarbonate – 105mm square overall</p>
	<p>A923/SA Round Washlight Lens IK 10 Moulded polycarbonate – 105mm dia. overall</p>		<p>A924/SA Square Washlight Lens IP64 Moulded polycarbonate – 105mm square overall</p>



PROSPEC OPTIONS

Project Specific Accessory Options
– Factory Fitted

Accessory trims available

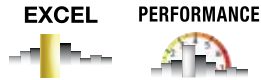
White /01 or Silver /55 or Black /11



	<p>A9100 RAP Round Adaption Plate IP20 95mm ID / 140mm OD For maximum: – 130mm dia. hole</p>	 <p>A9105 Twin Mounting Plate</p>
	<p>SR (+ required length) Seismic Restraint Optional on all models. Ordering Code: /SR (required length) eg. /SR 400mm</p>	



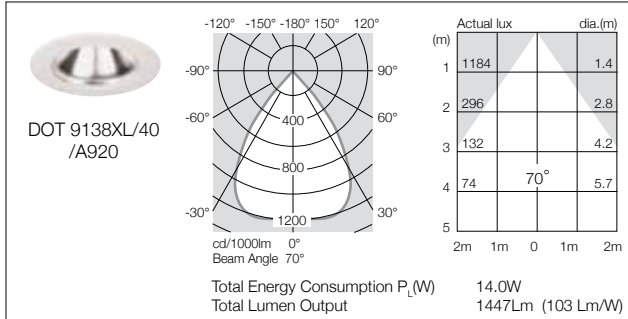
105mm dia. o/a
92mm dia. hole



Photometrics

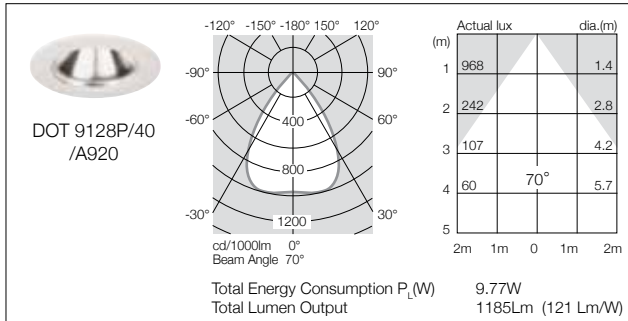
DOT 9100XL LED
EXCEL SERIES

350 mA
CREE CXB
LED

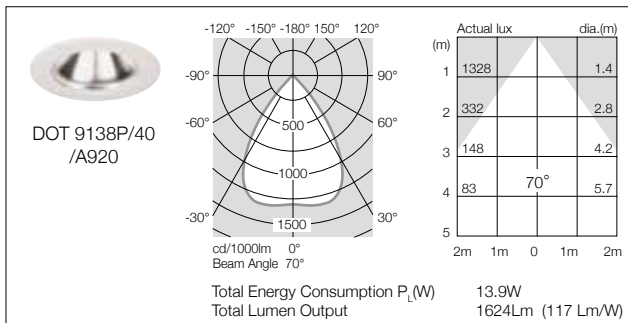


DOT 9100P LED
PERFORMANCE SERIES

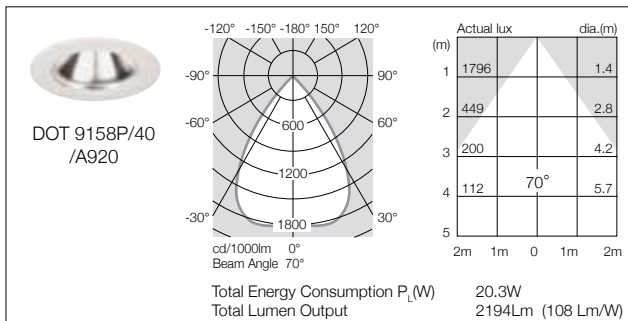
250 mA
CREE CXB
LED



350 mA
CREE CXB
LED



500 mA
CREE CXB
LED





105mm dia. o/a
92mm dia. hole

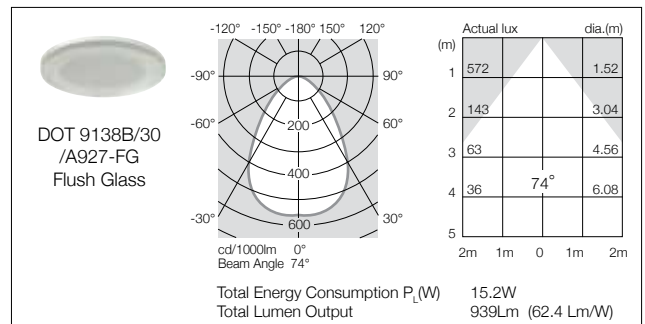
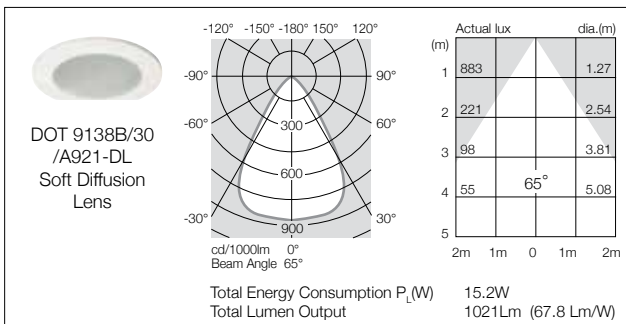
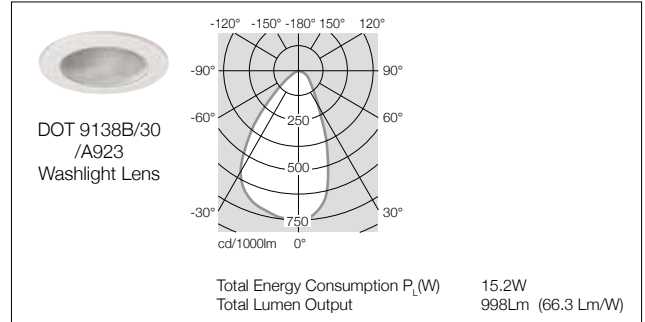
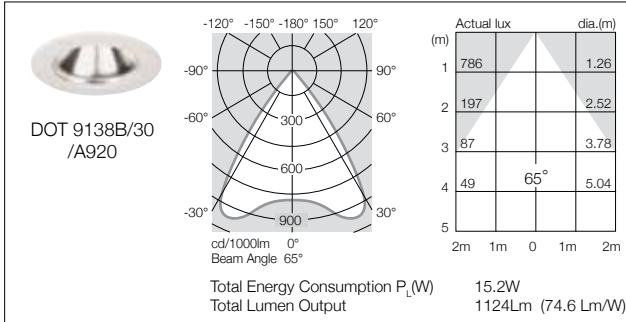


BASE

Photometrics

DOT **9100B LED**
BASE SERIES

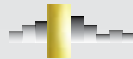
350 mA
CREE CXA
LED





DOT
9700

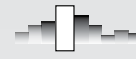
EXCEL



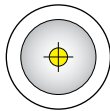
PERFORMANCE



BASE



RECESSED



155mm dia. o/a
140mm dia. hole



DOT 9700XL
1150-6000 LM
CREE CXB : CRI ≥92
MacAdam 2



DOT 9700P
1300-6000 LM
CREE CXA : CRI ≥83
MacAdam 3



DOT 9700B
1800-4400 LM
CREE CXA : CRI ≥80
MacAdam 4



DOT
9700

DOT 9700XL LED EXCEL SERIES



EXCEL

DOT **9700** Series

155mm dia. o/a

250mA-1400mA

CREE CXB

CRI: ≥ 92

R_g Value: ≥ 63

MacAdam 2

Beam cut-off angle

50°



MODELS (Reflector Options)

<p>/4 Narrow Beam - 39° Beam Angle</p>	<p>/8 Wide Beam - 60° Beam Angle</p>
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DUST PROOF OPTICAL ASSEMBLY OPTION (Factory Fitted)

<p>/4-IP Narrow Beam</p> <p>IP6X above ceiling, IP65 below ceiling</p>	<p>/8-IP Wide Beam</p> <p>IP6X above ceiling, IP65 below ceiling</p>
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White Ceiling Plate XL930/01 fitted to downlight as standard.

Total Energy Consumption P _{L(W)} – Refer LED Performance Guide		
Weights	Luminaire Body	1000 gms
	Remote Driver	190 gms
IEC 60598.1.2		Complies
AS/NZS60598.1.2		Complies
Cyanosis (Australia only)		4000k option approved
IP Rating		Refer Accessory

Standard Dimming Options Available		
- Analogue dimming 1-10 volt	350 to 1050mA	AD
- DALI	250 to 1400mA	DALI
- Phase cutting	350 to 900mA	PHD

ORDERING CODE FORMAT

Example: DOT 97 3 8 XL /IP6X /40 /DALI /XL930

Model Series Number (97) → 97

Driver Code (see table below*) → 3

Beam Angle (4-Narrow or 8-Wide) → 8

Series Code (XL: Excel) → XL

IP6X Option (if required: 4-Narrow or 8-Wide) → /IP6X

LED engine colour (/30-930 or /40-940) → /40

Dimming option if required (/AD, /DALI or /PHD) → /DALI

Accessory Code → /XL930

NOTE See following pages for Accessories and Photometric Data

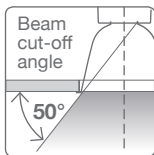
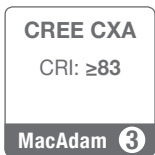
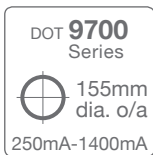
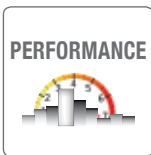


LED GUIDE – DOT 9700XL EXCEL SERIES (Wide Beam Option)

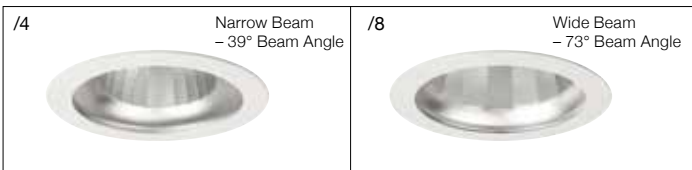
DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9728XL/30 ^A	250mA (2)	10.1	832	82.4	70,000
DOT 9728XL/40	250mA (2)	10.1	957	94.7	70,000
DOT 9738XL/30 ^A	350mA (3)	13.8	1120	81.2	70,000
DOT 9738XL/40	350mA (3)	13.8	1286	93.4	70,000
DOT 9758XL/30 ^A	500mA (5)	19.2	1650	85.9	65,000
DOT 9758XL/40	500mA (5)	19.2	1891	98.6	65,000
DOT 9778XL/30 ^A	700mA (7)	27.1	2180	80.4	60,000
DOT 9778XL/40	700mA (7)	27.1	2509	92.5	60,000
DOT 9798XL/30 ^A	900mA (9)	34.9	2780	79.6	55,000
DOT 9798XL/40	900mA (9)	34.9	3193	91.5	55,000
DOT 97108XL/30 ^A	1050mA (10)	40.3	3160	78.4	50,000
DOT 97108XL/40	1050mA (10)	40.3	3635	90.2	50,000
DOT 97148XL/30 ^A	1400mA (14)	55.1	3990	72.4	40,000
DOT 97148XL/40	1400mA (14)	55.1	4587	83.3	40,000

^A Figures extrapolated / interpolated from data at other currents.

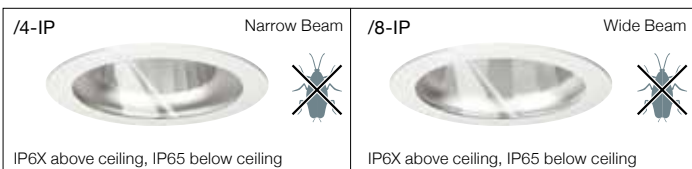
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.
- Narrow beam option may vary $\pm 2\%$.



MODELS (Reflector Options)



DUST PROOF OPTICAL ASSEMBLY OPTION (Factory Fitted)

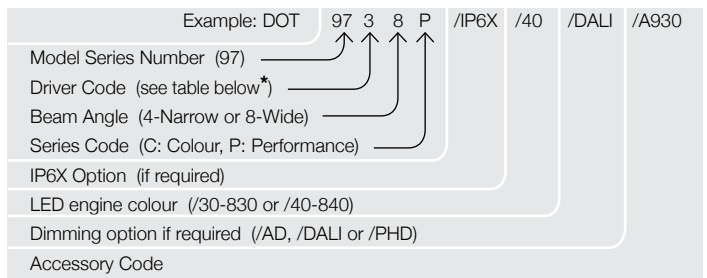


White Ceiling Plate A930/01 fitted to downlight as standard.

Total Energy Consumption P_L (W) – Refer LED Performance Guide		
Weights	Luminaire Body	1000 gms
	Remote Driver	190 gms
IEC 60598 - parts 1 and 2		Complies
AS/NZS60598 - parts 1 and 2		Complies
IP Rating		Refer Accessory

Dimming Options Available		
- Analogue dimming 1-10 volt, 350mA to 1050mA	AD	
- DALI 250mA to 1400mA	DALI	
- Phase cutting (chopping) dimming, 350mA to 700mA	PHD	

ORDERING CODE FORMAT



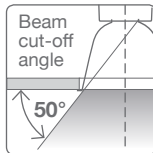
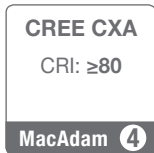
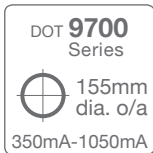
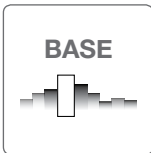
NOTE See following pages for Accessories and Photometric Data

LED GUIDE – DOT 9700P PERFORMANCE SERIES (Wide Beam Option)

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9728P/30 ^A	250mA (2)	10.3	1025	99.5	70,000
DOT 9728P/40	250mA (2)	10.3	1117	108.4	70,000
DOT 9738P/30	350mA (3)	13.7	1379	100.7	70,000
DOT 9738P/40	350mA (3)	13.6	1487	109.3	70,000
DOT 9758P/30	500mA (5)	19.3	1966	101.9	65,000
DOT 9758P/40	500mA (5)	19.4	2023	104.3	65,000
DOT 9778P/30 ^A	700mA (7)	26.9	2593	96.4	60,000
DOT 9778P/40	700mA (7)	26.9	2722	101.2	60,000
DOT 9798P/30 ^A	900mA (9)	34.6	3228	93.3	55,000
DOT 9798P/40	900mA (9)	34.6	3397	98.2	55,000
DOT 97108P/30 ^A	1050mA (10)	40.5	3548	87.6	50,000
DOT 97108P/40	1050mA (10)	40.5	3763	92.9	50,000
DOT 97148P/30 ^A	1400mA (14)	56.0	4396	78.5	40,000
DOT 97148P/40	1400mA (14)	56.0	4627	82.6	40,000

^A Figures extrapolated / interpolated from data at other currents.

^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.
– Narrow beam option may vary ± 2%.



MODEL

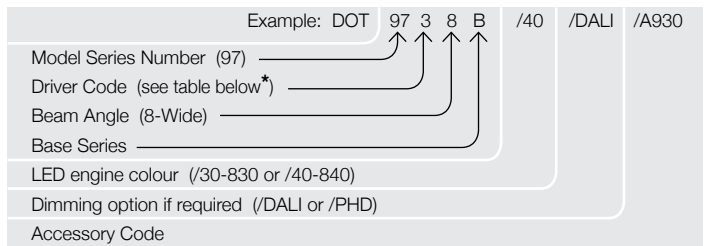


White Ceiling Plate A930/01 fitted to downlight as standard.

Total Energy Consumption $P_L(W)$ – Refer LED Performance Guide		
Weights	Luminaire Body	1000 gms
	Remote Driver	190 gms
IEC 60598 - parts 1 and 2		Complies
AS/NZS60598 - parts 1 and 2		Complies
IP Rating		Refer Accessory

Dimming Options Available		
- DALI 250mA to 1400mA		DALI
- Phase cutting (chopping) dimming, 350mA to 700mA		PHD

ORDERING CODE FORMAT



LED GUIDE – DOT 9700B BASE SERIES

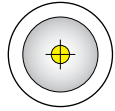
DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9738B/30 ^A	350mA (3)	14.3	1464	102.0	70,000
DOT 9738B/40	350mA (3)	14.3	1464	102.0	70,000
DOT 9778B/30 ^A	700mA (7)	30.0	2608	86.9	60,000
DOT 9778B/40	700mA (7)	30.0	2608	86.9	60,000
DOT 97108B/30 ^A	1050mA (10)	43.0	3600	83.7	50,000
DOT 97108B/40 ^A	1050mA (10)	43.0	3600	83.7	50,000

^A Figures extrapolated / interpolated from data at other currents.

^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

NOTE See following pages for Accessories and Photometric Data





155mm dia. o/a
140mm dia. hole



Accessories
















AXLOCK ACCESSORIES

Fitted to downlight *after* installation

Accessory trims available

White /01 or Silver /55 or Black /11



	<p>XL930 Ceiling Plate - w/ highlight IP20 Moulded polycarbonate - 155mm dia. overall</p>		<p>XL931-CL Flush Clear Lens w/ highlight IP65 Moulded polycarbonate - 155mm dia. overall</p>
	<p>XL931-DL Flush Clear Lens w/highlight IP65 Moulded polycarbonate - 155mm dia. overall</p>		<p>XL933 Round Washlite Lens w/highlight IP65 Moulded polycarbonate - 155mm dia. overall</p>
	<p>A930 Ceiling Plate - Round IP20 Moulded polycarbonate - 155mm dia. overall</p>		<p>A938 Ceiling Plate - Square IP20 Moulded polycarbonate - 156mm square overall</p>
	<p>A931-CL Flush Clear Lens IP65 Moulded polycarbonate - 155mm dia. overall</p>		<p>A932-CL Flush Clear Lens IP65 Moulded polycarbonate - 156mm square overall</p>
	<p>A931-DL Flush Clear Lens IP65 Moulded polycarbonate - 155mm dia. overall</p>		<p>A932-DL Flush Clear Lens IP65 Moulded polycarbonate - 156mm square overall</p>
	<p>A933 Round Washlite Lens IP65 Moulded polycarbonate - 155mm dia. overall</p>		<p>A934 Square Washlite Lens IP65 Moulded polycarbonate - 156mm square overall</p>
	<p>A937-FG Round Flush Glass IP54 5mm thick toughened glass with sandblasted centre. - 158mm dia. overall</p>		<p>A935-FG Square Flush Glass IP54 5mm thick toughened glass with sandblasted centre. - 158mm square overall</p>
	<p>A937-DG Round Dropped Glass IP20 5mm thick toughened glass with sandblasted centre. - 158mm dia. overall</p>		

**Secured Access
Accessories**



**SECURED ACCESS
ACCESSORIES**

Fitted to downlight **before** installation

Accessory trims available

White /01 or Silver /55 or Black /11



TORX tamperproof fasteners

	<p>A931-CL/SA Round Clear Lens IP64 Moulded polycarbonate – 192mm dia.</p>		<p>A932-CL/SA Square Clear Lens IP64 Moulded polycarbonate – 195mm square.</p>
	<p>A931-DL/SA Round Soft Diffusion Lens IP64 Moulded polycarbonate – 192mm dia.</p>		<p>A932-DL/SA Square Soft Diffusion Lens IP64 Moulded polycarbonate – 195mm square.</p>
	<p>A933/SA Round Washlight Lens IP64 Moulded polycarbonate – 192mm dia.</p>		<p>A934/SA Square Washlight Lens IP64 Moulded polycarbonate – 195mm square.</p>
	<p>A80 Vandal Proof Secured Access Lens IK 10 Moulded polycarbonate – 155mm dia. overall</p>		






PROSPEC OPTIONS

Project Specific Accessory Options
– Factory Fitted

Accessory trims available

White /01 or Silver /55 or Black /11



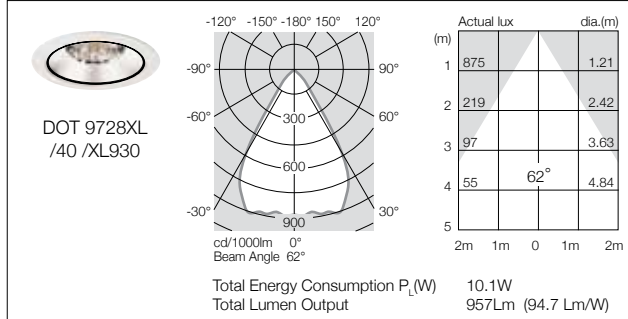
	<p>A9700 RAP Round Adaption Plate IP20 140mm ID / 210mm OD For maximum: – 200mm dia. hole</p>	 <p>A9705 Twin Mounting Plate</p>	
	<p>SR (+ required length) Seismic Restraint Optional on all models. Ordering Code: /SR (required length) eg. /SR 400mm</p>		<p>A9725 Semi Recessed Ring 25mm ring reduces overall installation height to 121mm.</p>
	<p>EM Emergency Self contained emergency unit – 3 hours. Features inverter and battery pack ≥550 lumens output in emergency mode. Available with most models.</p>		



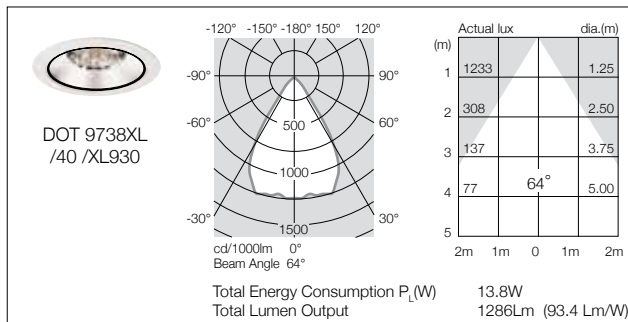
Photometric Data

DOT 9700XL LED
EXCEL SERIES

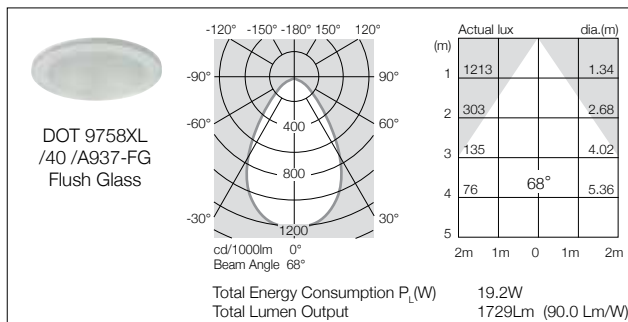
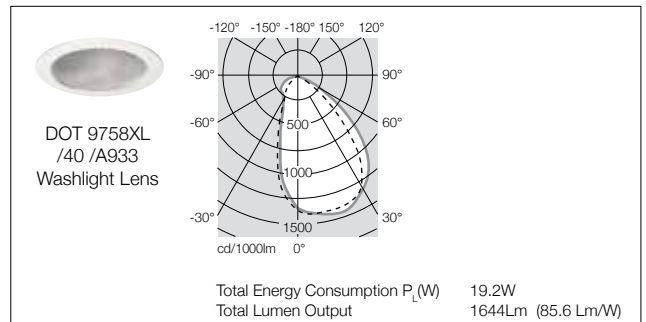
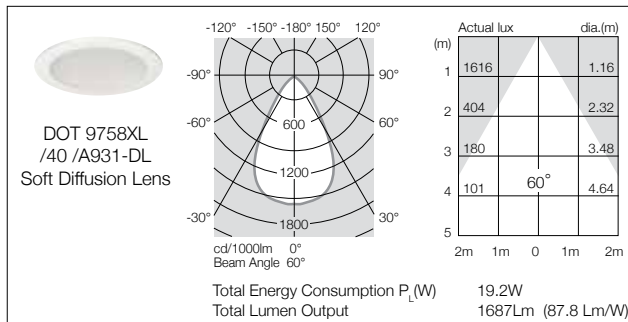
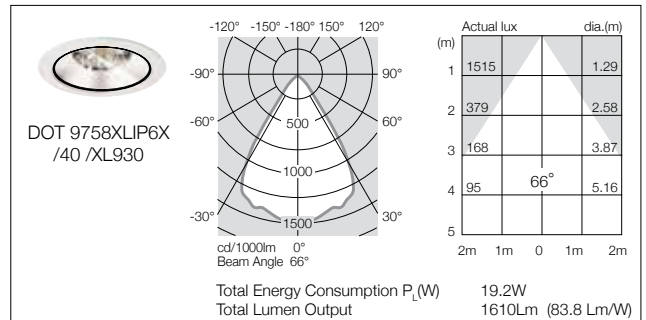
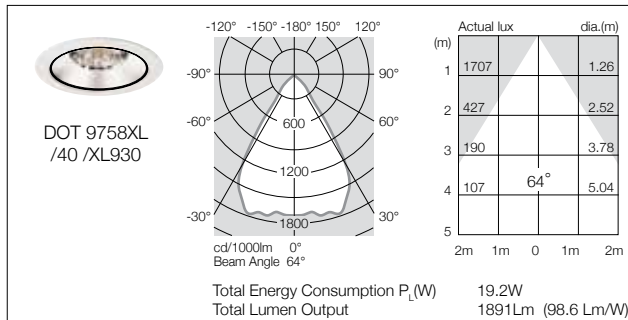
250 mA
CREE CXB
LED



350 mA
CREE CXB
LED



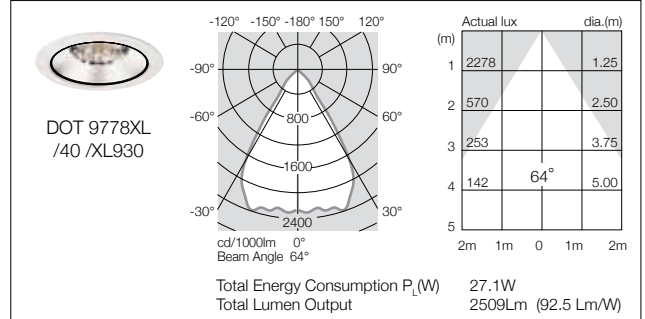
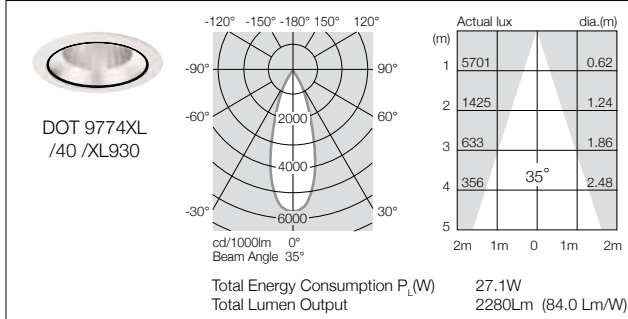
500 mA
CREE CXB
LED



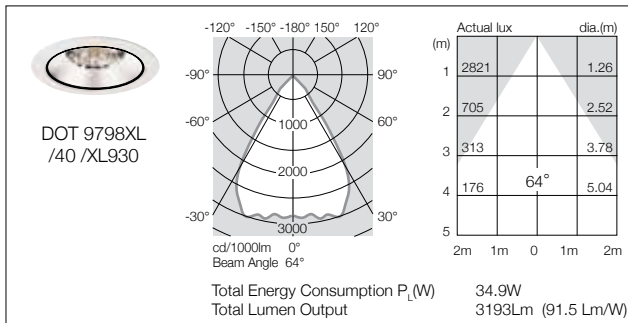


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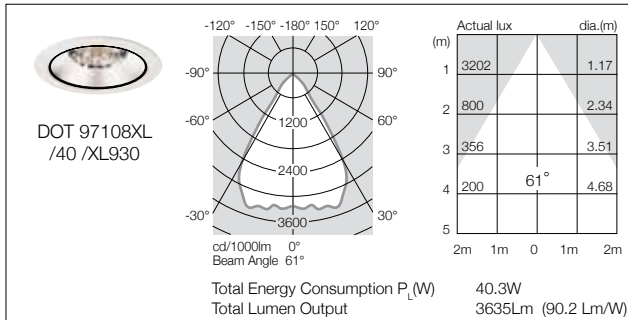
700 mA
CREE CXB
LED



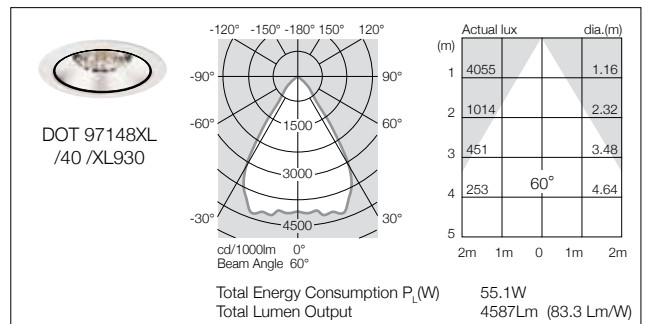
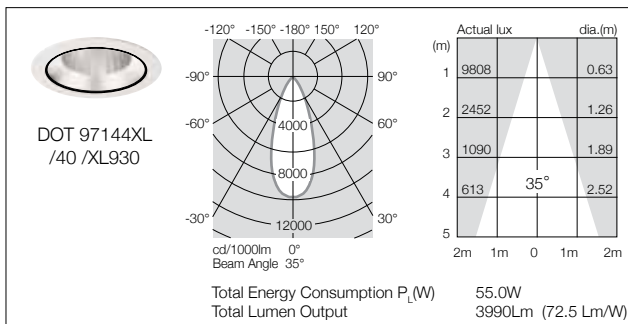
900 mA
CREE CXB
LED



1050 mA
CREE CXB
LED



1400 mA
CREE CXB
LED

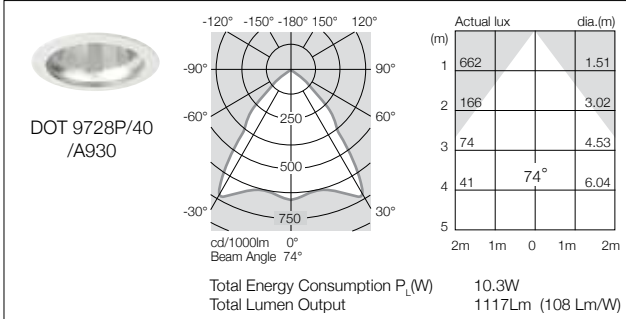




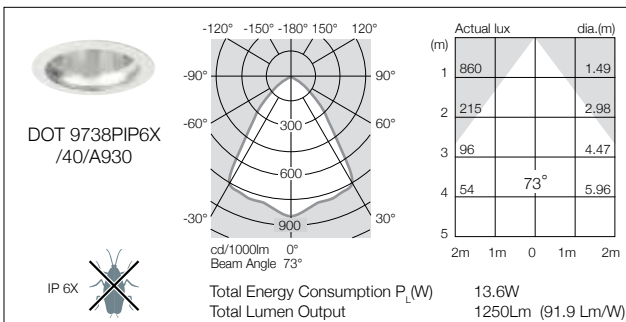
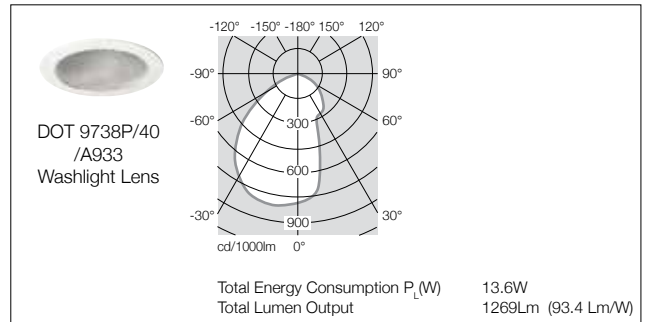
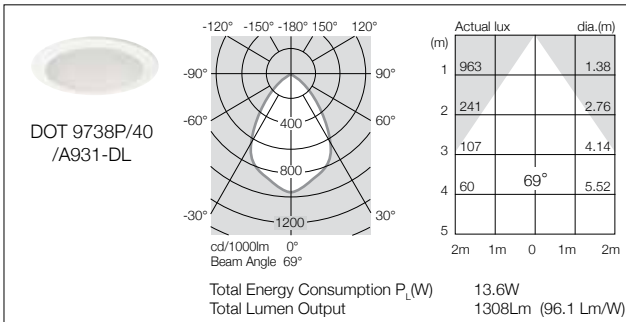
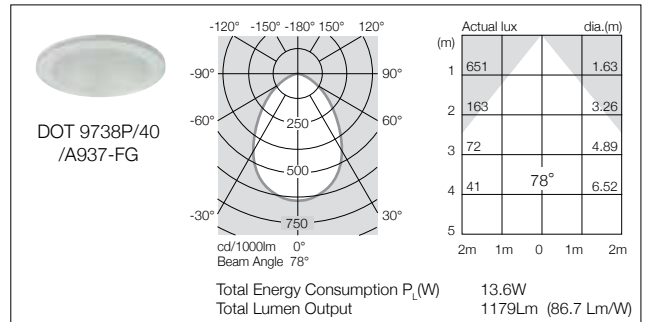
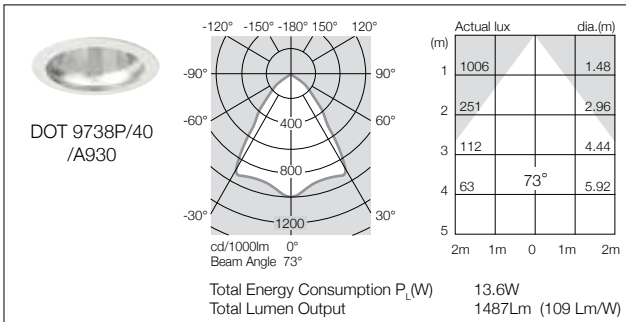
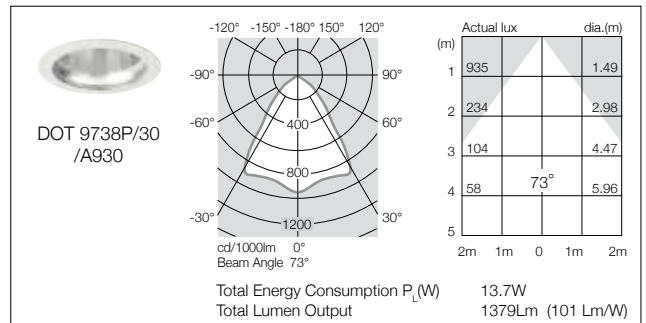
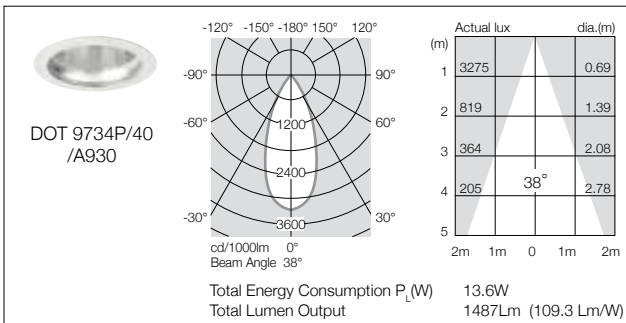
Photometric Data

DOT 9700P LED
PERFORMANCE SERIES

250 mA
CREE CXA
LED



350 mA
CREE CXA
LED

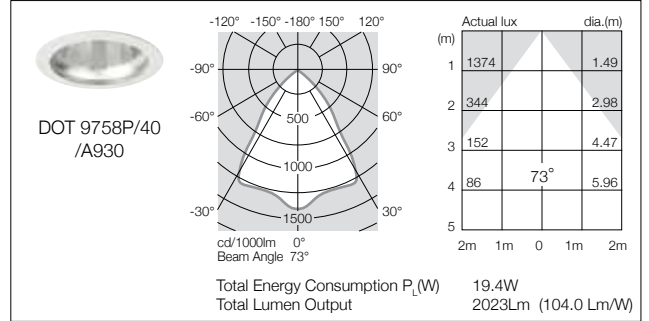
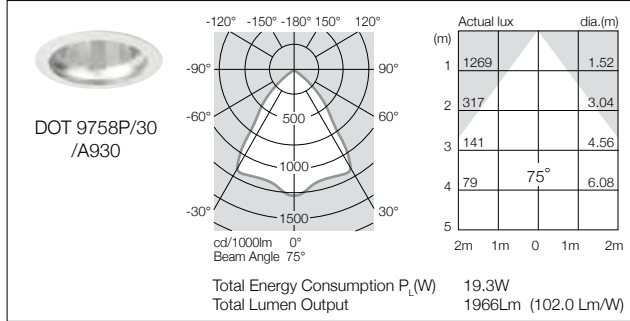




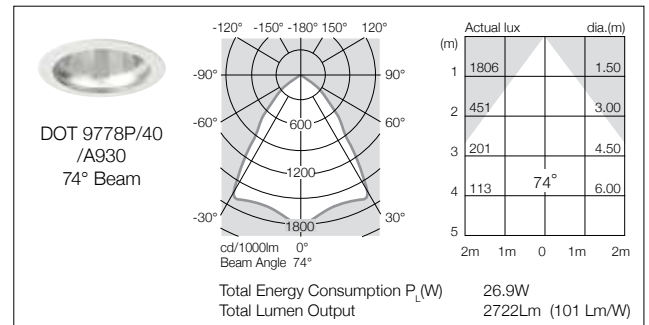
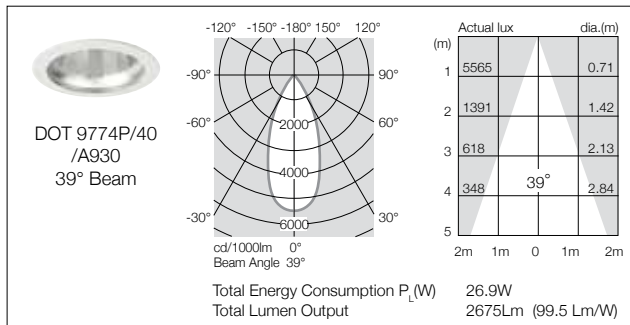
Photometric Data

DOT 9700P LED
PERFORMANCE SERIES

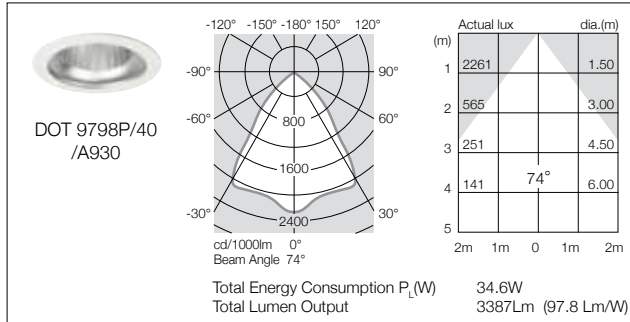
500 mA
CREE CXA
LED



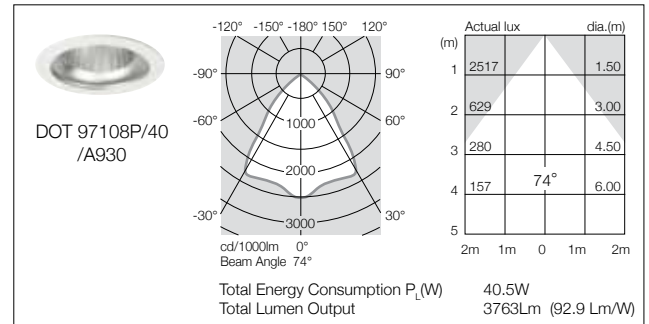
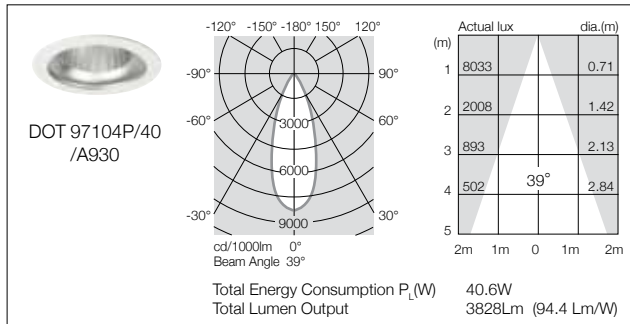
700 mA
CREE CXA
LED



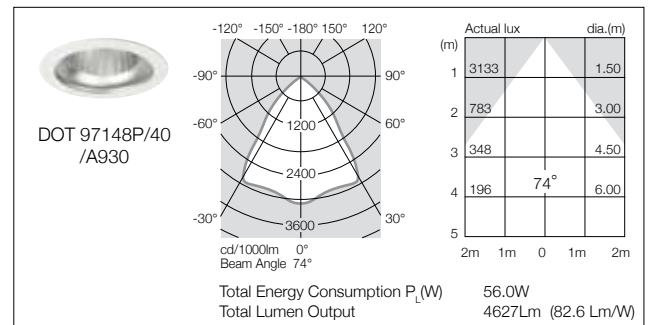
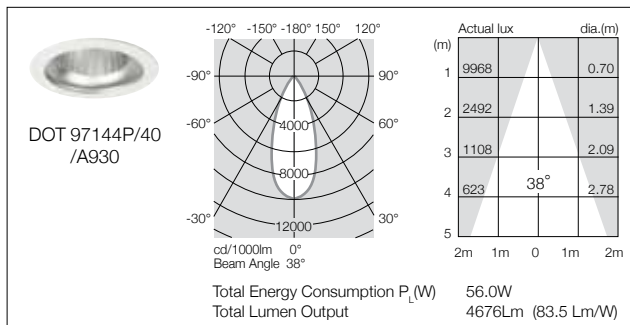
900 mA
CREE CXA
LED

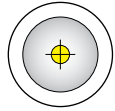


1050 mA
CREE CXA
LED



1400 mA
CREE CXA
LED





155mm dia. o/a
140mm dia. hole

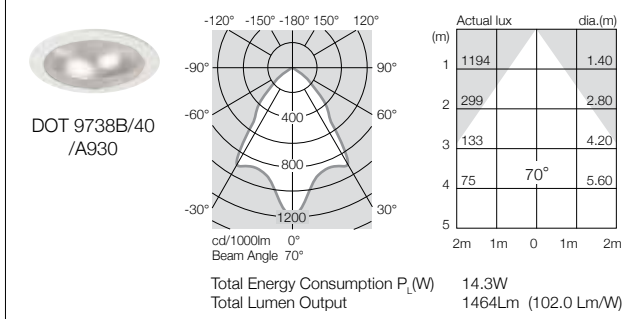


BASE

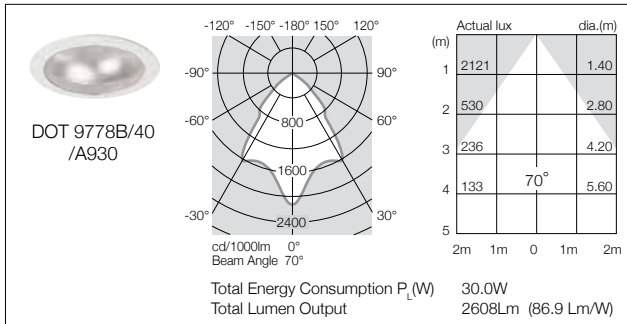
Photometric Data

DOT 9700B LED
BASE SERIES

350 mA
CREE CXA
LED



700 mA
CREE CXA
LED





DOT
99000

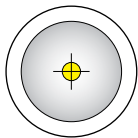
EXCEL



PERFORMANCE



RECESSED



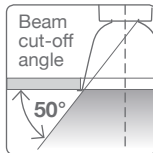
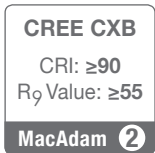
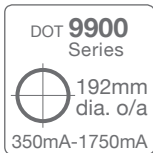
192mm dia. o/a
175mm dia. hole



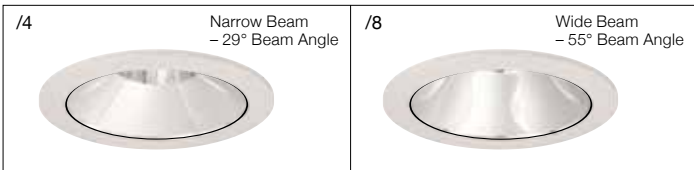
DOT 9900XL
1200-5871 LM
CREE CXB : CRI \geq 90
MacAdam 2



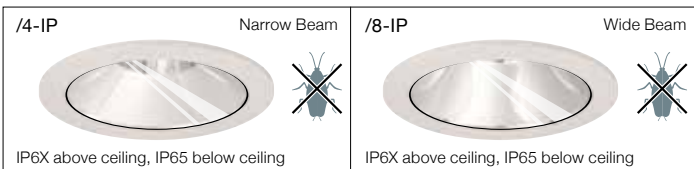
DOT 9000P
1557-6806 LM
CREE CXA : CRI \geq 83
MacAdam 3



MODELS (Reflector Options)



DUST PROOF OPTICAL ASSEMBLY OPTION (Factory Fitted)

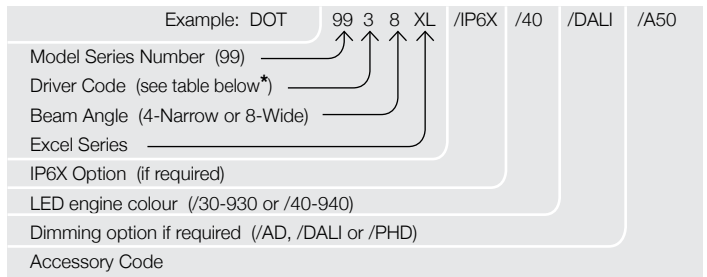


White Ceiling Plate XL50/01 fitted to downlight as standard.

Total Energy Consumption P _L (W) – Refer LED Performance Guide		
Weights	Luminaire Body	1400 gms
	Remote Driver	280 gms
IEC 60598 - parts 1 and 2		Complies
AS/NZS60598 - parts 1 and 2		Complies
Cyanosis (Australia only)		4000k option approved
IP Rating		Refer Accessory

Standard Dimming Options Available		
- Analogue dimming 1-10 volt, 350mA to 1050mA		AD
- DALI 250mA to 1400mA		DALI
- Phase cutting (chopping) dimming, 350mA to 700mA		PHD

ORDERING CODE FORMAT



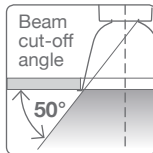
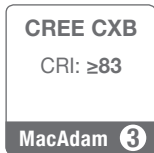
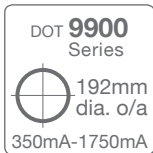
NOTE See following pages for Accessories and Photometric Data

LED GUIDE – DOT 9900XL EXCEL SERIES (Wide Beam Option)

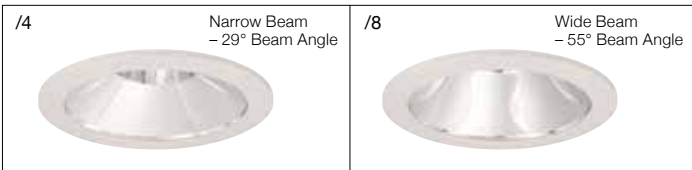
DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9938XL/30 ^A	350mA (3)	13.5	1200	88.9	>100,000
DOT 9938XL/40 ^A	350mA (3)	13.5	1379	102.1	>100,000
DOT 9958XL/30 ^A	500mA (5)	19.0	1666	87.7	>100,000
DOT 9958XL/40	500mA (5)	19.0	1915	100.8	>100,000
DOT 9978XL/30 ^A	700mA (7)	27.1	2284	84.3	>100,000
DOT 9978XL/40 ^A	700mA (7)	27.1	2625	96.9	>100,000
DOT 9998XL/30 ^A	900mA (9)	33.6	2930	87.2	>100,000
DOT 9998XL/40 ^A	900mA (9)	33.6	3369	100.2	>100,000
DOT 99108XL/30 ^A	1050mA (10)	38.9	3272	84.1	>100,000
DOT 99108XL/40 ^A	1050mA (10)	38.9	3761	96.7	>100,000
DOT 99148XL/30 ^A	1400mA (14)	53.5	4261	79.6	>100,000
DOT 99148XL/40 ^A	1400mA (14)	53.5	4898	91.6	>100,000
DOT 99178XL/30 ^A	1750mA (17)	68.1	4934	72.5	>100,000
DOT 99178XL/40 ^A	1750mA (17)	68.1	5671	83.3	>100,000

^A Figures extrapolated / interpolated from data at other currents.
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

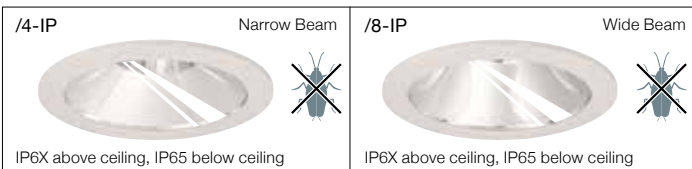




MODELS (Reflector Options)



DUST PROOF OPTICAL ASSEMBLY OPTION (Factory Fitted)

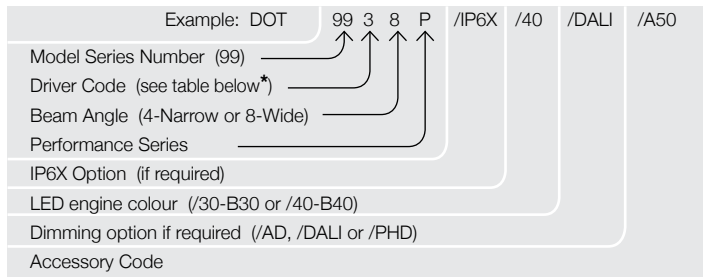


White Ceiling Plate A50/01 fitted to downlight as standard.

Total Energy Consumption P _L (W) – Refer LED Performance Guide		
Weights	Luminaire Body	1400 gms
	Remote Driver	280 gms
IEC 60598 - parts 1 and 2		Complies
AS/NZS60598 - parts 1 and 2		Complies
IP Rating		Refer Accessory

Dimming Options Available	
- Analogue dimming 1-10 volt, 350mA to 1050mA	AD
- DALI / switchDIM / DSI dimming, 250mA to 1400mA	DALI
- Phase cutting (chopping) dimming, 350mA to 700mA	PHD

ORDERING CODE FORMAT



NOTE See following pages for Accessories and Photometric Data

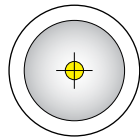
LED GUIDE – DOT 9900P PERFORMANCE SERIES (Wide Beam Option)

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9938P/30 ^A	350mA (3)	13.5	1557	115.3	>100,000
DOT 9938P/40	350mA (3)	13.5	1656	122.7	>100,000
DOT 9958P/30 ^A	500mA (5)	19.0	2160	113.7	>100,000
DOT 9958P/40	500mA (5)	19.0	2298	120.9	>100,000
DOT 9978P/30 ^A	700mA (7)	27.1	2962	109.3	>100,000
DOT 9978P/40	700mA (7)	27.1	3151	116.3	>100,000
DOT 9998P/30 ^A	900mA (9)	33.6	3799	113.1	>100,000
DOT 9998P/40	900mA (9)	33.6	4042	120.3	>100,000
DOT 99108P/30 ^A	1050mA (10)	38.9	4243	109.1	>100,000
DOT 99108P/40	1050mA (10)	38.9	4514	116.0	>100,000
DOT 99148P/30 ^A	1400mA (14)	53.5	5526	103.3	>100,000
DOT 99148P/40	1400mA (14)	53.5	5879	109.9	>100,000
DOT 99178P/30 ^A	1750mA (17)	68.1	6398	94.0	>100,000
DOT 99178P/40	1750mA (17)	68.1	6806	99.9	>100,000

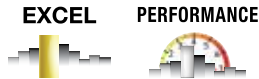
^A Figures extrapolated / interpolated from data at other currents.

^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.





192mm dia. o/a
175mm dia. hole



Accessories

AXLOCK ACCESSORIES

Fitted to downlight *after* installation

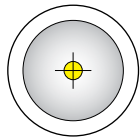
Accessory trims available

White /01 or Silver /55 or Black /11

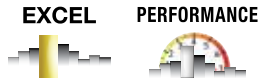


	<p>A50 Round Ceiling Plate IP20 Moulded polycarbonate - 192mm dia. overall</p>		<p>A58 Square Ceiling Plate IP20 Moulded polycarbonate - 195mm square overall</p>
	<p>XL50 Round Ceiling Plate w/highlight IP20 Moulded polycarbonate - 192mm dia. overall</p>		<p>XL52-CL Round Flush Clear Lens w/highlight IP65 Moulded polycarbonate - 192mm dia. overall</p>
	<p>A52-CL Round Flush Clear Lens IP65 Moulded polycarbonate - 192mm dia. overall</p>		<p>A53-CL Square Flush Clear Lens IP65 Moulded polycarbonate - 195mm square overall</p>
	<p>A52-DL Round Soft Diffusion Lens IP65 Moulded polycarbonate - 192mm dia. overall</p>		<p>A53-DL Square Soft Diffusion Lens IP65 Moulded polycarbonate - 195mm square overall</p>
	<p>A12-FG Round Flush Glass IP54 5mm thick toughened glass with sandblasted centre. - 195mm dia. overall</p>		<p>A59-FG Square Flush Glass IP54 5mm thick toughened glass with sandblasted centre. - 195mm square overall</p>
	<p>A12-DG Round Dropped Glass IP20 5mm thick toughened glass with sandblasted centre. - 195mm dia. overall</p>		

DOT **9900** SERIES
RECESSED DOWNLIGHTS



192mm dia. o/a
175mm dia. hole



**Secured Access
Accessories**

SECURED ACCESS
ACCESSORIES






Fitted to downlight **before** installation

Accessory trims available

White /01 or Silver /55 or Black /11



 TORX tamperproof fasteners

 <p>A52-CL/SA Round Clear Lens IP64 Moulded polycarbonate – 192mm dia. overall</p>	 <p>A53-CL/SA Square Clear Lens IP64 Moulded polycarbonate – 195mm square overall</p>
 <p>A52-DL/SA Round Soft Diffusion Lens IP64 Moulded polycarbonate – 192mm dia. overall</p>	 <p>A53-DL/SA Square Soft Diffusion Lens IP64 Moulded polycarbonate – 195mm square overall</p>
 <p>A81 Vandal Proof Secured IK 10 Moulded polycarbonate – 192mm dia. overall</p>	



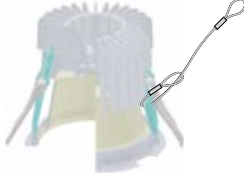
PROSPEC OPTIONS

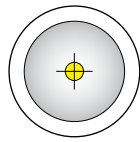
Project Specific Accessory Options
– Factory Fitted

Accessory trims available

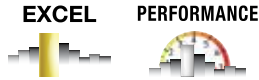
White /01 or Silver /55 or Black /11



 <p>A9900 RAP Round Adaption Plate IP20 165mm ID / 265mm OD For maximum: – 245mm dia. hole</p>	 <p>EM Emergency Self contained emergency unit – 3 hours. Features inverter and battery pack ≥550 lumens output in emergency mode. Available with most models.</p>
 <p>SR (+ required length) Seismic Restraint Optional on all models. Ordering Code: /SR (required length) eg. /SR 400mm</p>	



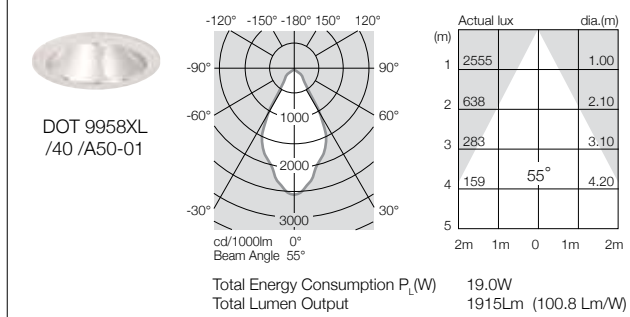
192mm dia. o/a
175mm dia. hole



Photometric Data

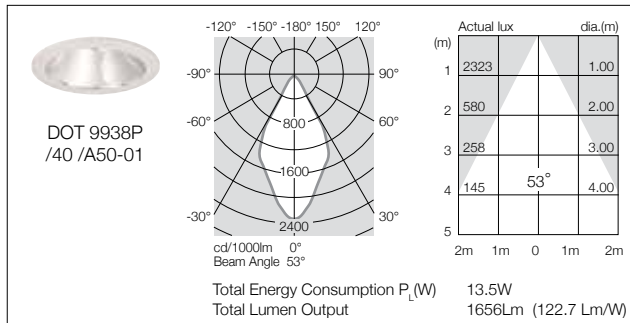
DOT 9900XL LED
EXCEL SERIES

500 mA
CREE CXB
LED

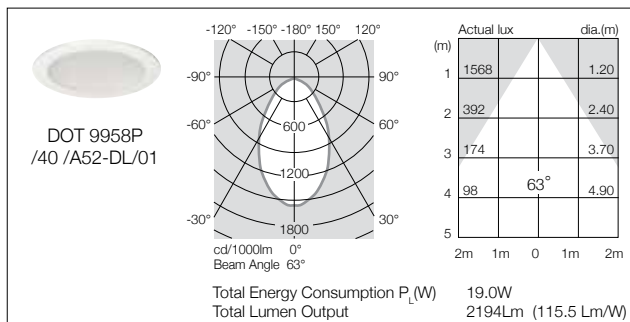
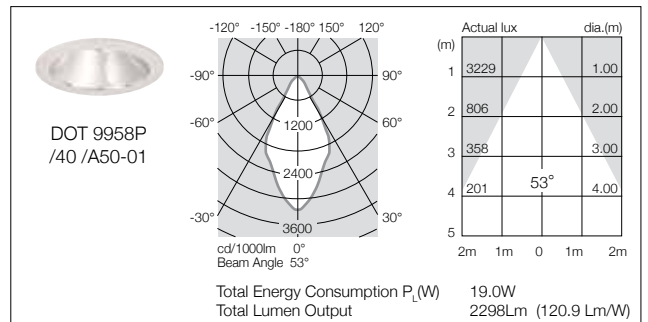
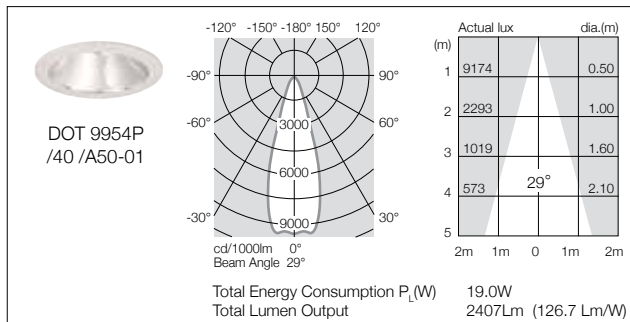


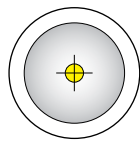
DOT 9900P LED
PERFORMANCE SERIES

350 mA
CREE CXB
LED



500 mA
CREE CXB
LED





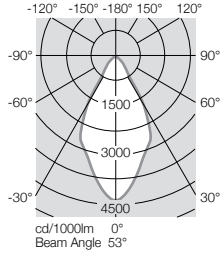
192mm dia. o/a
175mm dia. hole



Photometric Data

DOT **9900P** LED
PERFORMANCE SERIES

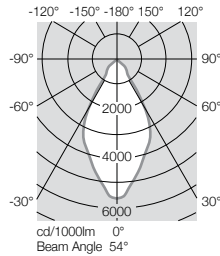
700 mA
CREE CXB
LED



Total Energy Consumption P_L (W) 27.1W
Total Lumen Output 3151Lm (116.3 Lm/W)

(m)	Actual lux	dia.(m)
1	4404	1.00
2	1101	2.00
3	489	3.00
4	275	4.00
5		

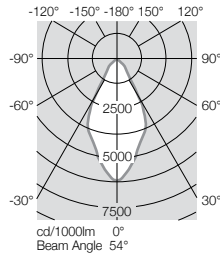
900 mA
CREE CXB
LED



Total Energy Consumption P_L (W) 33.6W
Total Lumen Output 4042Lm (120.3 Lm/W)

(m)	Actual lux	dia.(m)
1	5608	1.00
2	1402	2.00
3	623	3.00
4	350	4.10
5		

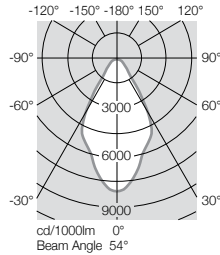
1050 mA
CREE CXB
LED



Total Energy Consumption P_L (W) 38.9W
Total Lumen Output 4514Lm (116.0 Lm/W)

(m)	Actual lux	dia.(m)
1	6260	1.00
2	1565	2.00
3	659	3.00
4	391	4.10
5		

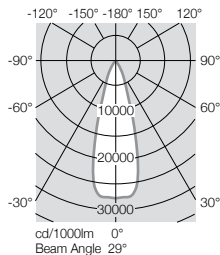
1400 mA
CREE CXB
LED



Total Energy Consumption P_L (W) 53.5W
Total Lumen Output 5878Lm (109.9 Lm/W)

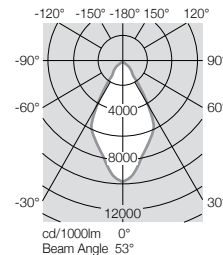
(m)	Actual lux	dia.(m)
1	8130	1.00
2	2032	2.00
3	903	3.10
4	508	4.10
5		

1750 mA
CREE CXB
LED



Total Energy Consumption P_L (W) 68.1W
Total Lumen Output 7159Lm (105.0 Lm/W)

(m)	Actual lux	dia.(m)
1	27,302	0.50
2	6825	1.00
3	3033	1.60
4	1706	2.10
5		



Total Energy Consumption P_L (W) 68.1W
Total Lumen Output 6806Lm (99.9 Lm/W)

(m)	Actual lux	dia.(m)
1	9508	1.00
2	2377	2.00
3	1056	3.00
4	594	4.00
5		



RECESSED SQUARE



DOT
9400



DOT
9800



DOT
9400

COLOUR



PERFORMANCE



RECESSED



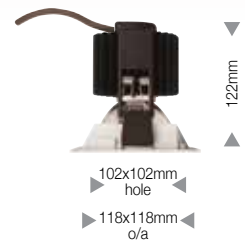
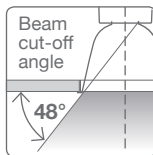
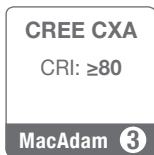
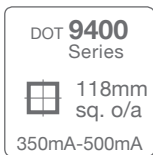
118mm sq. o/a
95mm sq. hole



DOT 9400C
1200-1700 LM
CREE CXA : CRI ≥92
MacAdam 2



DOT 9400P
1300-1800 LM
CREE CXA : CRI ≥80
MacAdam 3

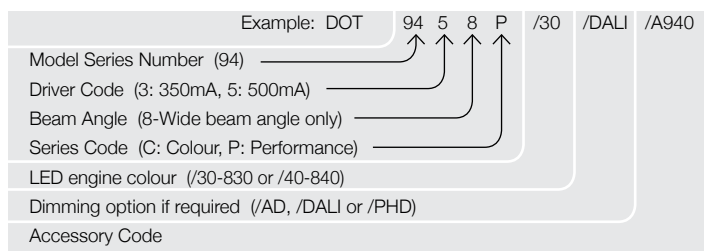


Square trim white A940/01 fitted to downlight as standard.

Silver Reflector – Wide angle beam		
Total Energy Consumption P_L (W) – Refer LED Performance Guide below		
Weights	Luminaire Body	700 gms
	Remote Driver	100 gms
IEC 60598.1.2		Complies
AS/NZS60598.1.2		Complies
IP Rating		Refer Accessory

Dimming Options Available	
– Analogue dimming 1-10 volt	AD
– DALI / switchDIM / DSI dimming	DALI
– Phase cutting (chopping) dimming	PHD

ORDERING CODE FORMAT



LED GUIDE – DOT 9400P PERFORMANCE SERIES

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9438P/30	350mA (3)	15.2	980	64.5	61,200
DOT 9438P/40 ^A	350mA (3)	15.2	1050	69.1	61,200
DOT 9458P/30 ^A	500mA (5)	21.8	1231	56.5	35,500
DOT 9458P/40 ^A	500mA (5)	21.8	1320	60.6	35,500

^A Figures extrapolated / interpolated from data at other currents.

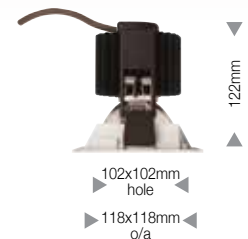
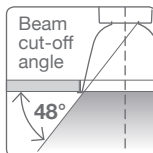
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

NOTE See following pages for Accessories and Photometric Data



DOT **9400**
Series
118mm
sq. o/a
350mA-500mA

CREE CXA
CRI: ≥ 92
R_g Value: ≥ 72
MacAdam 2

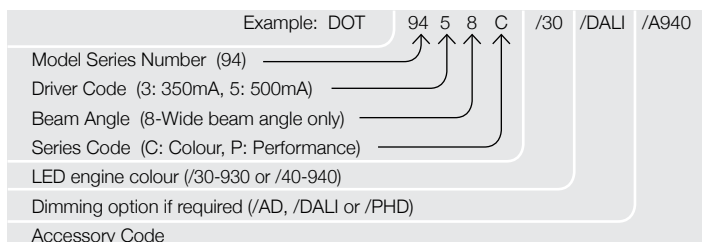


Square trim white A940/01 fitted to downlight as standard.

Silver Reflector – Wide angle beam		
Total Energy Consumption P _L (W) – Refer LED Performance Guide below		
Weights	Luminaire Body	700 gms
	Remote Driver	100 gms
IEC 60598.1.2		Complies
AS/NZS60598.1.2		Complies
Cyanosis (Australia only)		4000k option approved
IP Rating		Refer Accessory

Dimming Options Available		
- Analogue dimming 1-10 volt		AD
- DALI / switchDIM / DSI dimming		DALI
- Phase cutting (chopping) dimming		PHD

ORDERING CODE FORMAT



LED GUIDE – DOT 9400C COLOUR SERIES

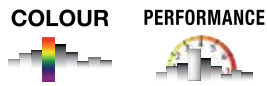
DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9438C/30 ^A	350mA (3)	15.0	860	57.3	61,200
DOT 9438C/40 ^A	350mA (3)	15.2	913	60.1	61,200
DOT 9458C/30 ^A	500mA (5)	21.7	1090	50.2	35,500
DOT 9458C/40 ^A	500mA (5)	21.7	1156	53.3	35,500

^A Figures extrapolated / interpolated from data at other currents.
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

NOTE See following pages for Accessories and Photometric Data



118mm sq. o/a
95mm sq. hole



Accessories

AXLOCK ACCESSORIES

Fitted to downlight **after** installation

Accessory trims available

White /01 or Silver /55 or Black /11



	A940 Square Ceiling Plate IP20 Moulded polycarbonate – 118mm square overall
	A942-CL Square Clear Ceiling Lens IP54 Moulded polycarbonate – 118mm square overall
	A942-DL Square Soft Diffusion Lens IP54 Moulded polycarbonate – 118mm square overall
	A944 Square Washlight Lens IP54 5mm thick toughened glass with sandblasted centre. – 118mm square overall
	A945-FG Square Flush Glass IP54 5mm thick toughened glass with sandblasted centre. – 120mm square overall



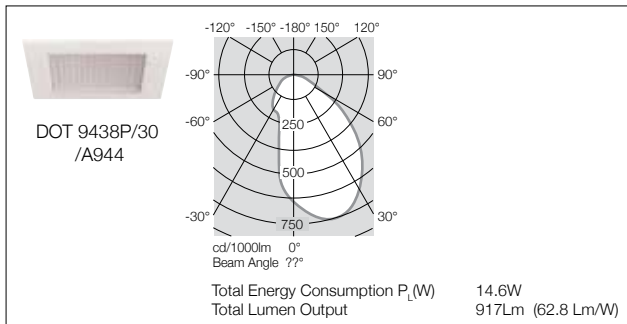
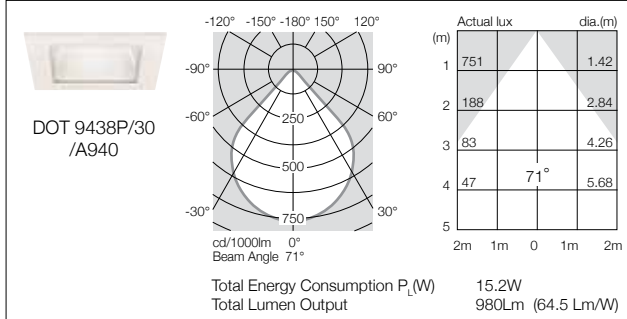
118mm sq. o/a
95mm sq. hole



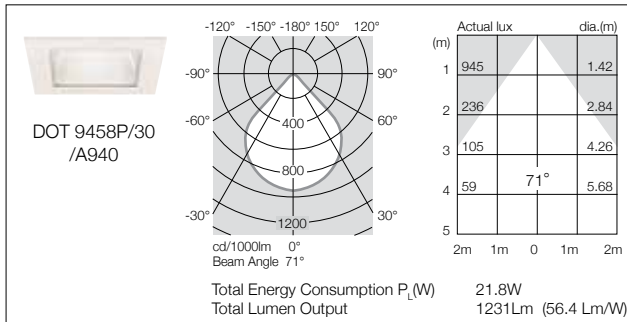
Photometric Data

DOT 9400P LED
PERFORMANCE SERIES

350 mA
CREE CXA
LED



500 mA
CREE CXA
LED





DOT
9800

RECESSED SQUARE



DOT 9800

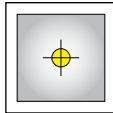
COLOUR



PERFORMANCE



RECESSED SQUARE



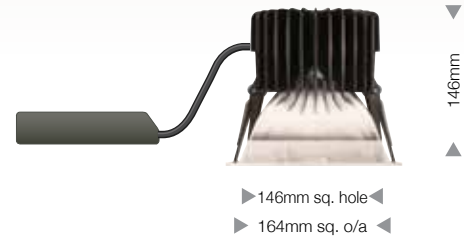
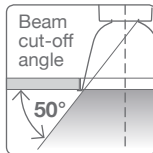
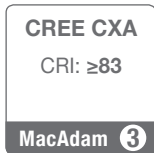
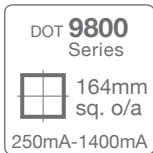
164mm sq. o/a
146mm sq. hole



DOT 9800C
1100-5000 LM
CREE CXA : CRI ≥94
MacAdam 2



DOT 9800P
1300-6000 LM
CREE CXA : CRI ≥83
MacAdam 3

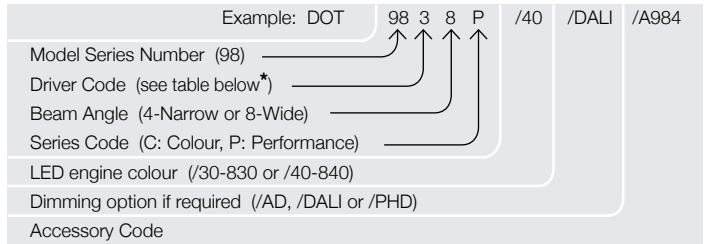


White Ceiling Plate A980/01 fitted to downlight as standard.

Total Energy Consumption P _L (W) – Refer LED Performance Guide		
Weights	Luminaire Body	1000 gms
	Remote Driver	190 gms
IEC 60598.1.2		Complies
AS/NZS60598.1.2		Complies
IP Rating		Refer Accessory

Dimming Options Available		
- Analogue dimming 1-10 volt, 350mA to 1050mA		AD
- DALI / switchDIM / DSI dimming, 250mA to 1400mA		DALI
- Phase cutting (chopping) dimming, 350mA to 700mA		PHD

ORDERING CODE FORMAT



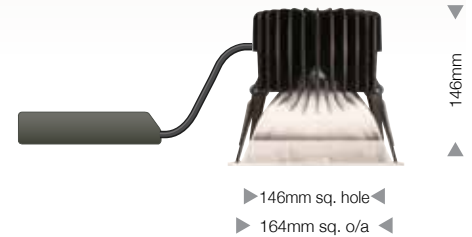
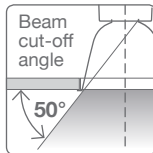
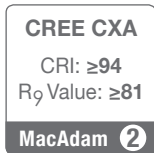
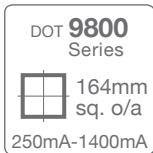
LED GUIDE – DOT 9800P PERFORMANCE SERIES

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9828P/30 A	250mA (2)	10.3	885	85.9	70,000
DOT 9828P/40 A	250mA (2)	10.3	963	93.5	70,000
DOT 9838P/30 A	350mA (3)	13.7	1190	86.9	70,000
DOT 9838P/40	350mA (3)	13.8	1282	93.1	70,000
DOT 9858P/30 A	500mA (5)	19.3	1660	86.0	65,000
DOT 9858P/40 A	500mA (5)	19.4	1744	89.9	65,000
DOT 9878P/30 A	700mA (7)	26.9	2233	83.0	60,000
DOT 9878P/40 A	700mA (7)	26.9	2346	87.2	60,000
DOT 9898P/30 A	900mA (9)	34.6	2780	80.3	55,000
DOT 9898P/40 A	900mA (9)	34.6	2927	84.6	55,000
DOT 98108P/30 A	1050mA (10)	40.5	3054	75.4	50,000
DOT 98108P/40 A	1050mA (10)	40.5	3240	80.0	50,000
DOT 98148P/30 A	1400mA (14)	56.0	3782	67.5	40,000
DOT 98148P/40 A	1400mA (14)	56.0	3981	71.1	40,000

A Figures extrapolated / interpolated from data at other currents.

B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

NOTE See following pages for Accessories and Photometric Data



White Ceiling Plate A980/01 fitted to downlight as standard.

Total Energy Consumption P _L (W) – Refer LED Performance Guide		
Weights	Luminaire Body	1000 gms
	Remote Driver	190 gms
IEC 60598.1.2		Complies
AS/NZS60598.1.2		Complies
Cyanosis (Australia only)		4000k option approved
IP Rating		Refer Accessory

Dimming Options Available

- Analogue dimming 1-10 volt, 350mA to 1050mA AD
- DALI / switchDIM / DSI dimming, 250mA to 1400mA DALI
- Phase cutting (chopping) dimming, 350mA to 700mA PHD

ORDERING CODE FORMAT

Example: DOT 98 3 8 C /40 /DALI /A984

Model Series Number (98)	98					
Driver Code (see table below*)		3				
Beam Angle (4-Narrow or 8-Wide)			8			
Series Code (C: Colour, P: Performance)				C		
LED engine colour (/30-930 or /40-940)					/40	
Dimming option if required (/AD, /DALI or PHD)						/DALI
Accessory Code						/A984

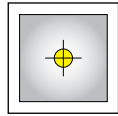
LED GUIDE – DOT 9800C COLOUR SERIES

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9828C/30 ^A	250mA (2)	10.3	740	71.8	70,000
DOT 9828C/40 ^A	250mA (2)	10.3	790	76.7	70,000
DOT 9838C/30 ^A	350mA (3)	13.7	998	72.8	70,000
DOT 9838C/40 ^A	350mA (3)	13.8	1068	77.4	70,000
DOT 9858C/30 ^A	500mA (5)	19.3	1325	68.7	65,000
DOT 9858C/40 ^A	500mA (5)	19.4	1462	75.4	65,000
DOT 9878C/30 ^A	700mA (7)	26.9	1793	66.7	60,000
DOT 9878C/40 ^A	700mA (7)	26.9	1994	74.1	60,000
DOT 9898C/30 ^A	900mA (9)	34.6	2190	63.3	55,000
DOT 9898C/40 ^A	900mA (9)	34.6	2435	70.4	55,000
DOT 98108C/30 ^A	1050mA (10)	40.5	2434	60.1	50,000
DOT 98108C/40 ^A	1050mA (10)	40.5	2707	66.8	50,000
DOT 98148C/30 ^A	1400mA (14)	56.0	2951	52.7	40,000
DOT 98148C/40 ^A	1400mA (14)	56.0	3334	59.5	40,000

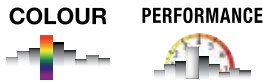
^A Figures extrapolated / interpolated from data at other currents.
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

NOTE See following pages for Accessories and Photometric Data

DOT **9800** SERIES
RECESSED DOWNLIGHTS



164mm sq. o/a
146mm sq. hole



DOT **LED**

Accessories

AXLOCK ACCESSORIES

Fitted to downlight **after** installation

Accessory trims available

White /01 or Silver /55 or Black /11



	<p>A980 Square Ceiling Plate IP20 Moulded polycarbonate – 164mm square overall</p>
	<p>A982-CL Square Clear Lens IP54 Moulded polycarbonate – 164mm square overall</p>
	<p>A982-DL Square Soft Diffusion Lens IP54 Moulded polycarbonate – 164mm square overall</p>
	<p>A984 Square Washlight Lens IP54 5mm thick toughened glass with sandblasted centre. – 164mm square overall</p>
	<p>A985-FG Square Flush Glass IP54 5mm thick toughened glass with sandblasted centre. – 166mm square overall</p>

PROSPEC OPTIONS

Project Specific Accessory Options

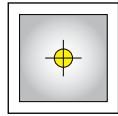
– Factory Fitted

Accessory trims available

White /01 or Silver /55 or Black /11



	<p>EM Emergency 3 hours emergency unit. includes inverter and battery pack ≥550 lumens (emergency mode). Available with most models.</p>
	<p>SR (+ required length) Seismic Restraint Optional on all models. Ordering Code: /SR (required length) eg. /SR 400mm</p>



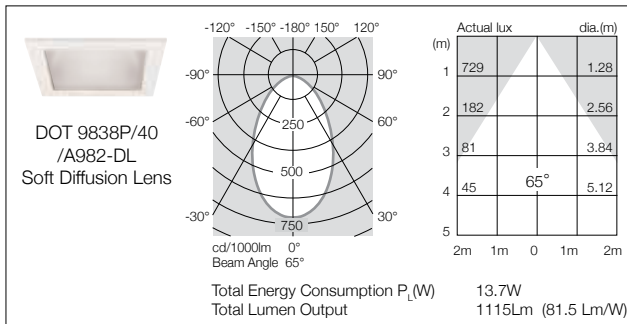
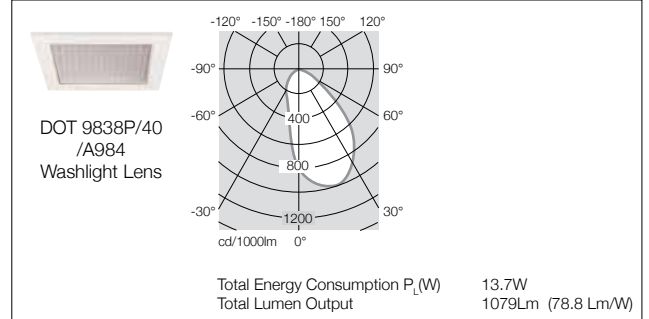
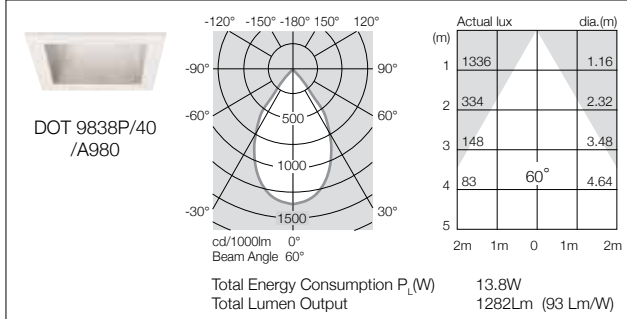
164mm sq. o/a
146mm sq. hole



Photometric Data

**DOT 9800P LED
PERFORMANCE SERIES**

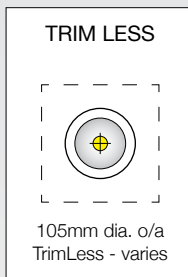
350 mA
CREE CXA
LED





DOT
9100 TL

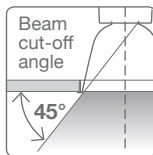
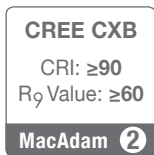
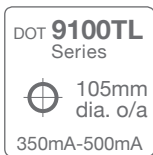
EXCEL



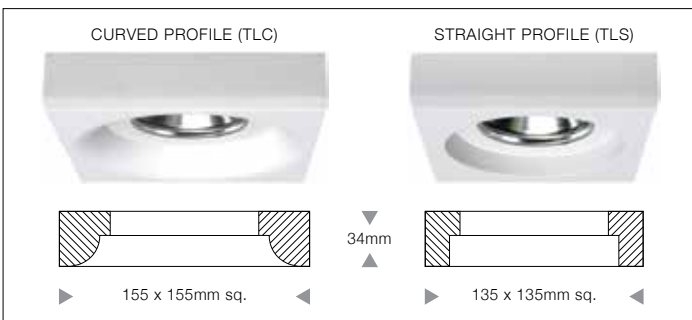
CURVED PROFILE



STRAIGHT PROFILE



MODELS (Reflector Options)



Round trim white A920/01 fitted to downlight as standard.

Silver Reflector – Wide angle beam
 Total Energy Consumption P_L(W) – Refer LED Performance Guide below
 Weights: Curved Profile

Luminaire Body	350mA	1300 gms
Remote Driver	500mA	1400 gms
		100 gms

Weights: Straight Profile

Luminaire Body	350mA	1140 gms
Remote Driver	500mA	1240 gms
		100 gms

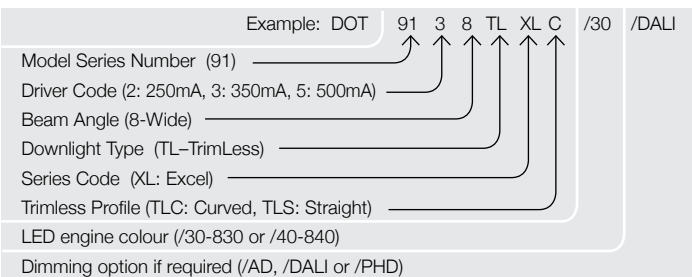
IEC 60598.1.2
 AS/NZS60598.1.2
 IP Rating

Complies
 Complies
 IP20

Dimming Options Available

- Analogue dimming 1-10 volt	AD
- DALI	DALI
- Phase cutting (chopping) dimming	PHD

ORDERING CODE FORMAT



LED GUIDE – DOT 9100TL TRIMLESS SERIES

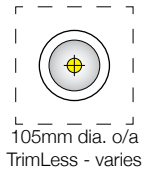
DOT Model No. /30 : 3000k /40 : 4000k	Trimless Profile	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9128TLXL/30	A	250mA (2)	10.0	936	93.6	$\geq 75,000$
DOT 9128TLXL/40	A	250mA (2)	10.0	1051	105.0	$\geq 75,000$
DOT 9138TLXL/30	A	350mA (2)	14.0	1351	96.5	$\geq 75,000$
DOT 9138TLXL/40	A	350mA (2)	14.0	1447	103.0	$\geq 75,000$
DOT 9158TLXL/30	A	500mA (2)	21.0	1741	82.9	$\geq 75,000$
DOT 9158TLXL/40	A	500mA (2)	21.0	1954	93.0	$\geq 75,000$

^A Figures extrapolated / interpolated from data at other currents.

^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.
 - Slight variation may occur with Trimless Options.

NOTE See following pages for Accessories and Photometric Data

DOT 9100TL SERIES
TRIMLESS DOWNLIGHTS



EXCEL



DOT LED

Accessories


AXLOCK ACCESSORIES
Fitted to downlight *after* installation

Accessory trims available
White /01 or Silver /55 or Black /11



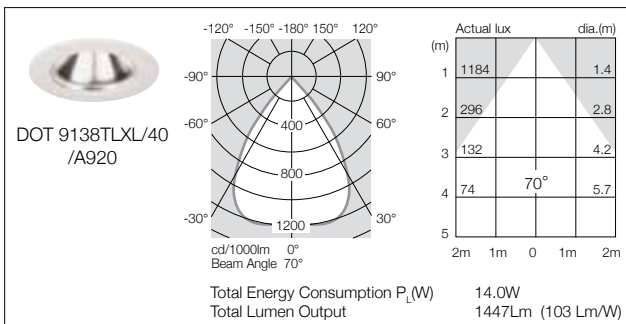
	<p>A920 Round Ceiling Plate IP20 Moulded polycarbonate - 105mm dia. overall</p>		<p>A921-CL Round Flush Clear Lens IP65 Moulded polycarbonate - 105mm dia. overall</p>
	<p>A921-DL Round Soft Diffusion Lens IP65 Moulded polycarbonate - 105mm dia. overall</p>		

PROSPEC OPTIONS
Project Specific Accessory Options
- Factory Fitted

	<p>SR (+ required length) Seismic Restraint Optional on all models. Ordering Code: /SR (required length) eg. /SR 400mm</p>
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DOT 9100TLXL LED
EXCEL SERIES

350 mA
CREE CXB
LED



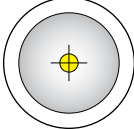


DOT
9900_w


PERFORMANCE



RECESSED
WALLWASHER



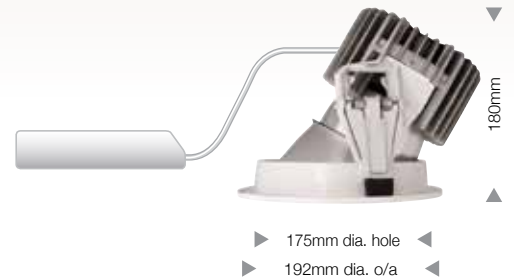
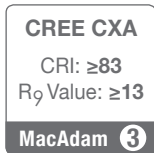
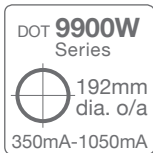
192mm dia. o/a
175mm dia. hole



DOT 9900WP
974-2715 LM
CREE CXA : CRI \geq 83
MacAdam 3



DOT 9900_w



White Ceiling Plate A50/01 fitted to downlight as standard.

Total Energy Consumption P _L (W) – Refer LED Performance Guide		
Weights	Luminaire Body	1240 gms
	Remote Driver	280 gms
IEC 60598 - parts 1 and 2		Complies
AS/NZS60598 - parts 1 and 2		Complies
IP Rating		Refer Accessory

Dimming Options Available

- Analogue dimming 1-10 volt, 350mA to 1050mA AD
- DALI / switchDIM / DSI dimming, 250mA to 1750mA DALI
- Phase cutting (chopping) dimming, 350mA to 700mA PHD

ORDERING CODE FORMAT

Example: DOT 99 3 8 WP /40 /DALI

Model Series Number (99)	99
Driver Code (see table below*)	3
Reflector (8)	8
Wallwasher (XL-Excel or P-Performance)	WP
LED engine colour (/30-930 or /40-940)	/40
Dimming option if required (/AD, /DALI or /PHD)	/DALI

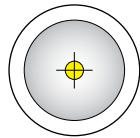
LED GUIDE – DOT 9900WP WALLWASHER PERFORMANCE SERIES

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9938WP/30 ^A	350mA (3)	14.0	974	69.6	>100,000
DOT 9938WP/40 ^A	350mA (3)	14.0	1036	74.0	>100,000
DOT 9958WP/30 ^A	500mA (5)	19.3	1317	68.2	>100,000
DOT 9958WP/40	500mA (5)	19.3	1401	72.6	>100,000
DOT 9978WP/30 ^A	700mA (7)	27.2	1796	66.0	>100,000
DOT 9978WP/40	700mA (7)	27.2	1911	70.3	>100,000
DOT 99108WP/30 ^A	1050mA (10)	41.0	2561	62.5	>100,000
DOT 99108WP/40	1050mA (10)	41.0	2715	66.4	>100,000

^A Figures extrapolated / interpolated from data at other currents.
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

NOTE See following page for Photometric Data

DOT **9900W** SERIES
RECESSED WALLWASHER



192mm dia. o/a
175mm dia. hole

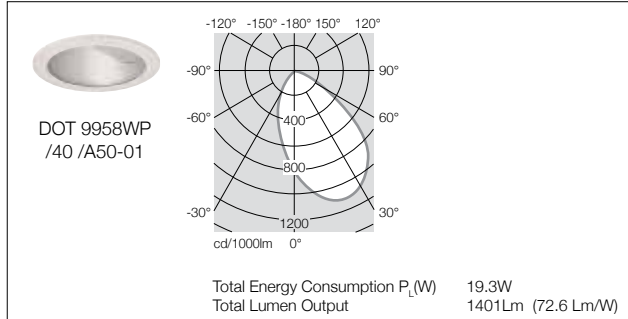
PERFORMANCE



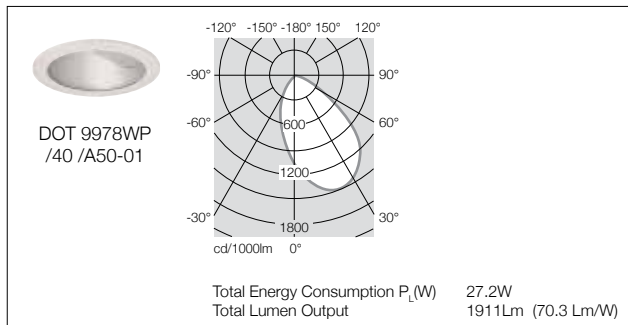
Photometric Data

DOT **9900WP** LED
PERFORMANCE SERIES

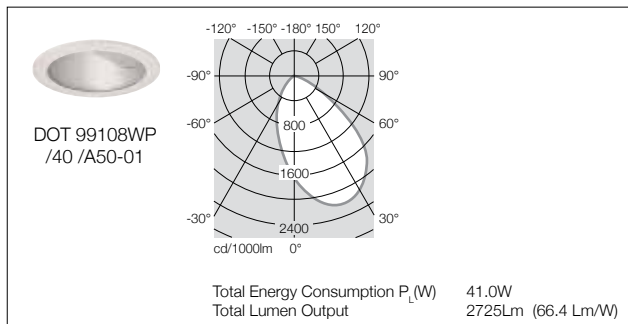
500 mA
CREE CXA
LED



700 mA
CREE CXA
LED



1050 mA
CREE CXA
LED



PROSPEC OPTIONS

Project Specific Accessory Options
- Factory Fitted

Accessory trims available
White /01 or Silver /55 or Black /11



A9900 RAP
Round Adaption
Plate IP20
165mm ID / 265mm OD
For maximum:
- 245mm dia. hole

SR (+ required length)
Seismic Restraint
Optional on all models.
Ordering Code:
/SR (required length)
eg. /SR 400mm

SURFACE MOUNTED ROUND



DOT
9100_{SM}



DOT
9700_{SM}



DOT
9900_{SM}

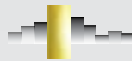


DOT
9100 SM



DOT
9100_{SM}

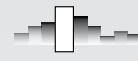
EXCEL



PERFORMANCE



BASE



**SURFACE
MOUNTED**



105mm dia. o/a



DOT 9100SMXL
1200-1700 LM
CREE CXA : CRI ≥92
MacAdam 2



DOT 9100SMP
1300-1800 LM
CREE CXA : CRI ≥80
MacAdam 3



DOT 9100B
1200-1700 SMLM
CREE CXA : CRI ≥92
MacAdam 2

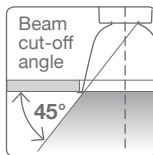
DOT **9100SMXL** LED
EXCEL SERIES

DOT **LED**



DOT **9100SM**
Series
105mm
dia. o/a
250mA-500mA

CREE CXB
CRI: ≥ 90
R_g Value: ≥ 60
MacAdam 2



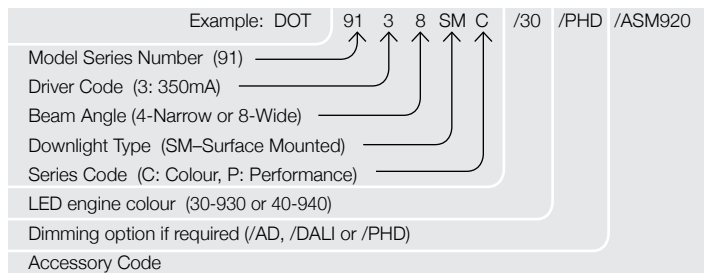
REFLECTOR



Round trim white A920/01 fitted to downlight as standard.

Silver Reflector – Wide angle beam		
Total Energy Consumption P _L (W) – Refer LED Performance Guide below		
Weights	Luminaire Body	700 gms
	Remote Driver	100 gms
IEC 60598.1.2		Complies
AS/NZS60598.1.2		Complies
Cyanosis (Australia only)		4000k option approved
IP Rating		Refer Accessory
Standard Dimming Options Available		
- DALI		DALI
- Phase cutting (chopping) dimming		PHD

ORDERING CODE FORMAT



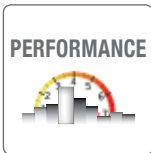
LED GUIDE – DOT 9100SMXL EXCEL SERIES

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9128SMXL/30 ^A	250mA (2)	10.0	936	93.6	$\geq 75,000$
DOT 9128SMXL/40 ^A	250mA (2)	10.0	1051	105.0	$\geq 75,000$
DOT 9138SMXL/30 ^A	350mA (2)	14.0	1351	96.5	$\geq 75,000$
DOT 9138SMXL/40	350mA (2)	14.0	1447	103.0	$\geq 75,000$
DOT 9158SMXL/30 ^A	500mA (2)	21.0	1741	82.9	$\geq 75,000$
DOT 9158SMXL/40 ^A	500mA (2)	21.0	1954	93.0	$\geq 75,000$

^A Figures extrapolated / interpolated from data at other currents.
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

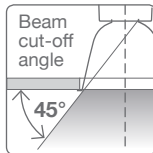
NOTE See following pages for Accessories and Photometric Data





DOT 9100SM Series
105mm dia. o/a
250mA-500mA

CREE CXA
CRI: ≥ 80
R_g Value: ≥ 15
MacAdam 2



REFLECTOR

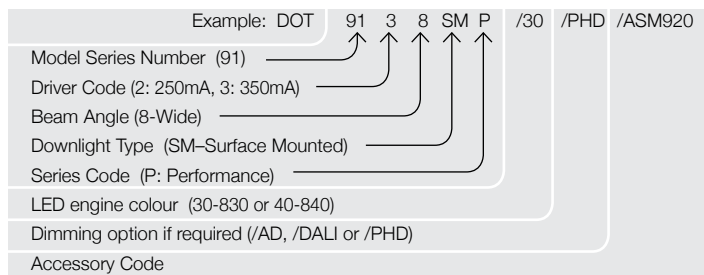


Round trim white A920/01 fitted to downlight as standard.

Silver Reflector – Wide angle beam		
Total Energy Consumption P _L (W) – Refer LED Performance Guide below		
Weights	Luminaire Body	700 gms
	Remote Driver	100 gms
IEC 60598.1.2		Complies
AS/NZS60598.1.2		Complies
IP Rating		Refer Accessory

Standard Dimming Options Available		
- DALI		DALI
- Phase cutting (chopping) dimming		PHD

ORDERING CODE FORMAT



LED GUIDE – DOT 9100SMP PERFORMANCE SERIES

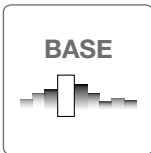
DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9128SMP/30 ^A	250mA (2)	9.8	1103	112.5	$\geq 75,000$
DOT 9128SMP/40	250mA (2)	9.8	1185	121.0	$\geq 75,000$
DOT 9138SMP/30 ^A	350mA (3)	13.9	1518	109.2	$\geq 75,000$
DOT 9138SMP/40	350mA (3)	13.9	1624	117.0	$\geq 75,000$
DOT 9158SMP/30 ^A	500mA (5)	20.3	2051	101.0	$\geq 75,000$
DOT 9158SMP/40	500mA (5)	20.3	2194	108.0	$\geq 75,000$

^A Figures extrapolated / interpolated from data at other currents.

^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

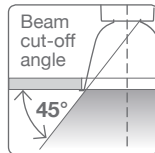
NOTE See following pages for Accessories and Photometric Data

DOT **9100SMB** LED
BASE SERIES

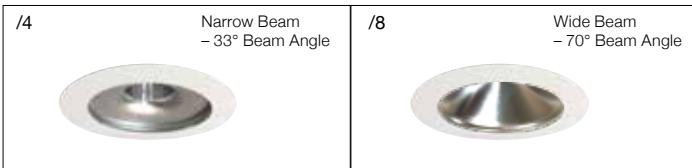


DOT **9100SM**
Series
105mm
dia. o/a
350mA

CREE CXA
CRI: **≥80**
MacAdam 3



REFLECTOR

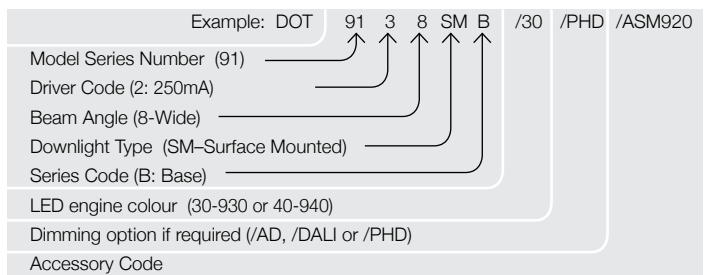


Round trim white A920/01 fitted to downlight as standard.

Silver Reflector – Wide angle beam		
Total Energy Consumption P _L (W) – Refer LED Performance Guide below		
Weights	Luminaire Body	700 gms
	Remote Driver	100 gms
IEC 60598.1.2		Complies
AS/NZS60598.1.2		Complies
IP Rating		Refer Accessory

Standard Dimming Options Available	
- DALI	DALI
- Phase cutting (chopping) dimming	PHD

ORDERING CODE FORMAT



LED GUIDE – DOT 9100SMB SURFACE MOUNTED BASE SERIES

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9138SMB/30	350mA (3)	15.1	1124	74.6	≥51,000
DOT 9138SMB/40 A	350mA (3)	15.1	1190	78.8	≥51,000

A Figures extrapolated / interpolated from data at other currents.
B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.



NOTE See following pages for Accessories and Photometric Data



Accessories

AXLOCK ACCESSORIES

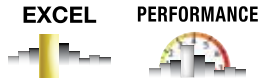
Fitted to downlight **after** installation

Accessory trims available

White /01 or Silver /55 or Black /11



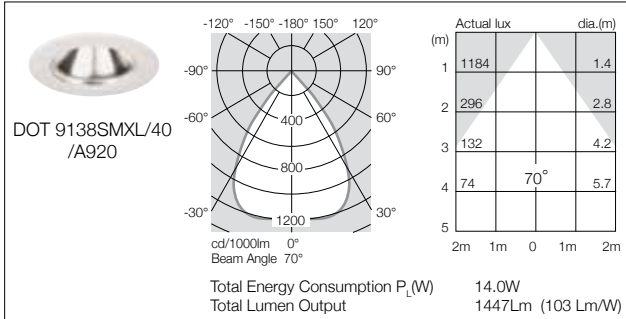
	<p>ASM920 Round Ceiling Plate IP20 Moulded polycarbonate - 105mm dia. overall</p>		<p>XLSM920 Round Ceiling Plate w/high light IP20 Moulded polycarbonate - 105mm dia. overall</p>
	<p>ASM921-CL Round Flush Clear Lens IP65 Moulded polycarbonate - 105mm dia. overall</p>		<p>XLSM921-CL Round Flush Clear Lens w/high light IP65 Moulded polycarbonate - 105mm dia. overall</p>
	<p>ASM921-DL Round Soft Diffusion Lens IP65 Moulded polycarbonate - 105mm dia. overall</p>		<p>XLSM921-DL Round Soft Diffusion Lens w/high light IP65 Moulded polycarbonate - 105mm dia. overall</p>
	<p>ASM923 Round Washlite Lens IP65 Moulded polycarbonate - 105mm dia. overall</p>		<p>XLSM923 Round Washlite Lens w/high light IP65 Moulded polycarbonate - 105mm dia. overall</p>



Photometrics

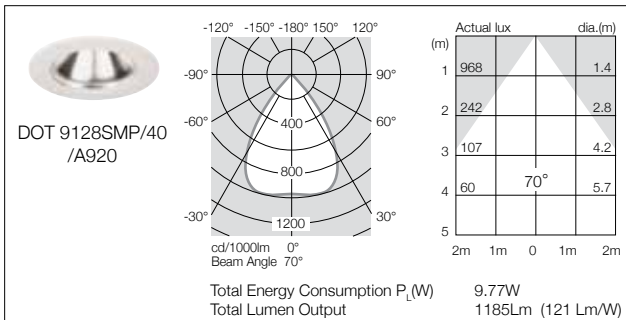
DOT 9100SMXL LED
EXCEL SERIES

350 mA
CREE CXB
LED

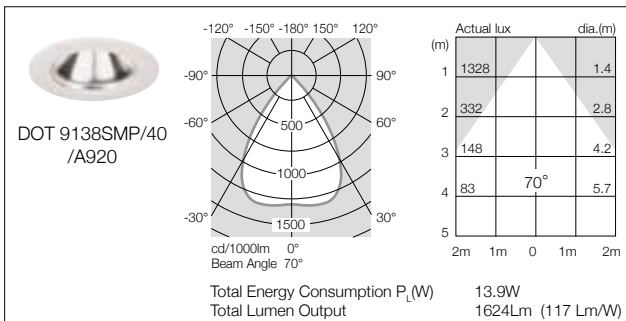


DOT 9100SMP LED
PERFORMANCE SERIES

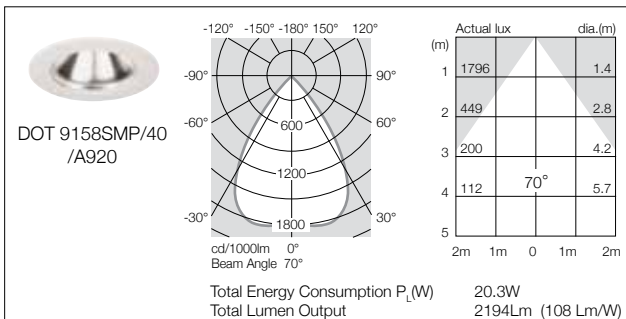
250 mA
CREE CXB
LED



350 mA
CREE CXB
LED



500 mA
CREE CXB
LED



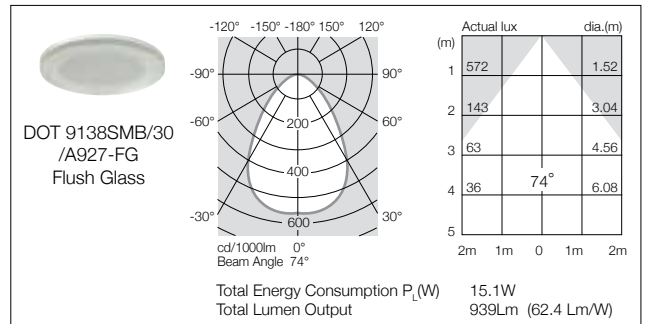
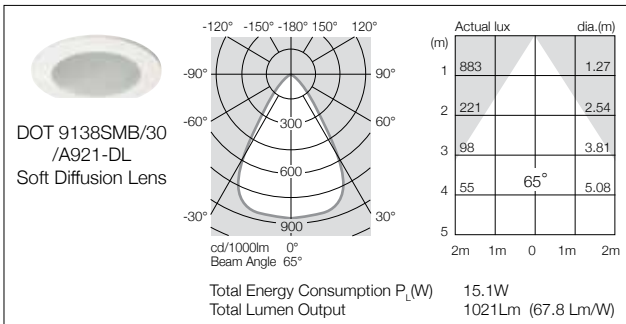
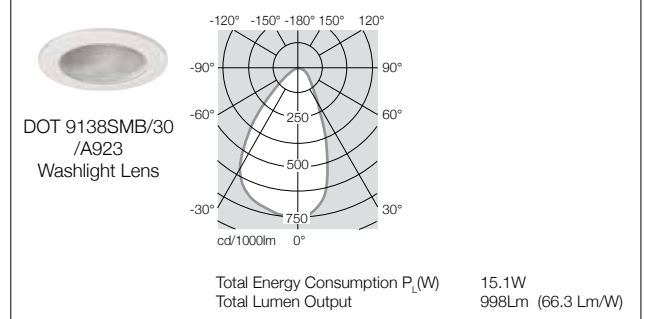
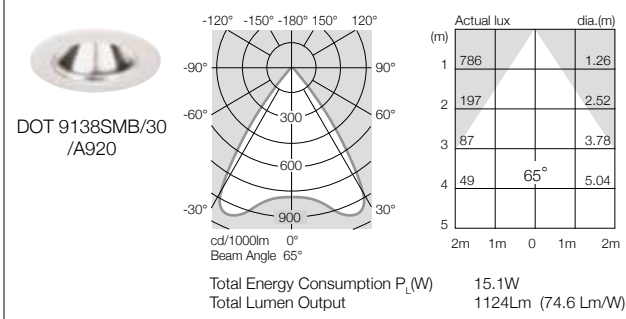


Photometrics



DOT **9100SMB LED**
BASE SERIES

350 mA
CREE CXA
LED



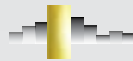


DOT
9700_{SM}



DOT
9700_{SM}

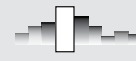
EXCEL



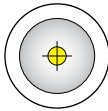
PERFORMANCE



BASE



**SURFACE
MOUNTED**



155mm dia. o/a



DOT 9700SMXL
1150-6000 LM
CREE CXB : CRI ≥92
MacAdam 2

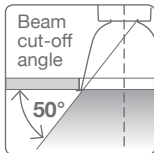
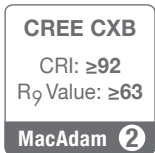
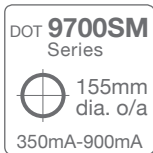


DOT 9700SMP
1300-6000 LM
CREE CXA : CRI ≥83
MacAdam 3

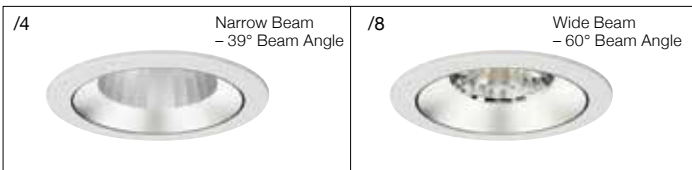


DOT 9700SMB
1800-4400 LM
CREE CXA : CRI ≥80
MacAdam 4

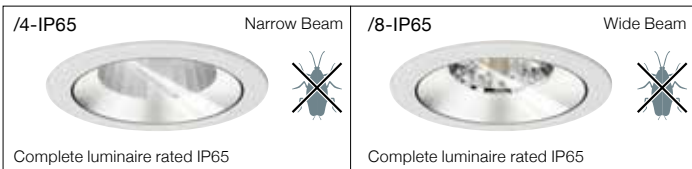
DOT **9700SMXL LED**
EXCEL SERIES



MODELS (Reflector Options)



DUST PROOF OPTICAL ASSEMBLY OPTION (Factory Fitted)

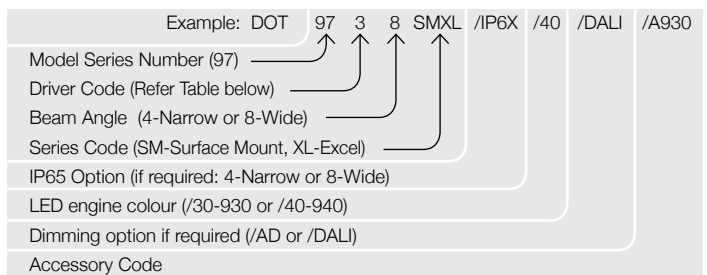


White Ceiling Plate A930/01 fitted to downlight as standard.

Total Energy Consumption P _L (W) – Refer LED Performance Guide	
Weight	1600 gms
IEC 60598.1.2	Complies
AS/NZS60598.1.2	Complies
Cyanosis (Australia only)	4000k option approved
IP Rating	Refer Accessory

Standard Dimming Options Available	
- Analogue dimming 1-10 volt	AD
- DALI dimming	DALI

ORDERING CODE FORMAT



LED GUIDE – DOT 9700SMXL EXCEL SERIES (Wide Beam Option)

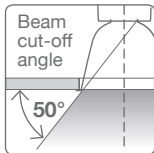
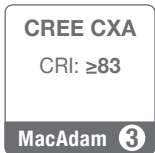
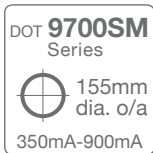
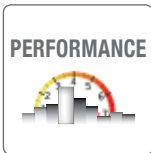
DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9738SMXL/30 ^A	350mA (3)	13.8	1120	81.2	70,000
DOT 9738SMXL/40	350mA (3)	13.8	1286	93.4	70,000
DOT 9758SMXL/30 ^A	500mA (5)	19.2	1650	85.9	65,000
DOT 9758SMXL/40	500mA (5)	19.2	1891	98.6	65,000
DOT 9778SMXL/30 ^A	700mA (7)	27.1	2180	80.4	60,000
DOT 9778SMXL/40	700mA (7)	27.1	2509	92.5	60,000
DOT 9798SMXL/30 ^A	900mA (9)	34.9	2780	79.6	55,000
DOT 9798SMXL/40	900mA (9)	34.9	3193	91.5	55,000

^A Figures extrapolated / interpolated from data at other currents.

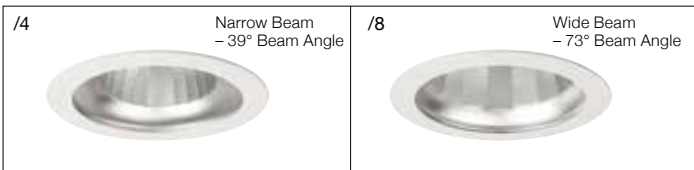
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.
– Narrow beam option may vary ± 2%.

NOTE See following pages for Accessories and Photometric Data

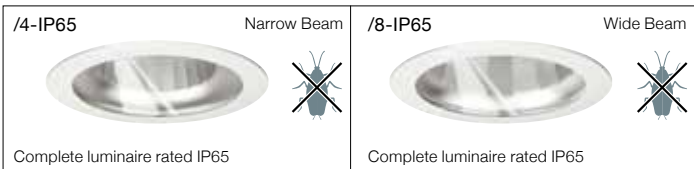




MODELS (Reflector Options)



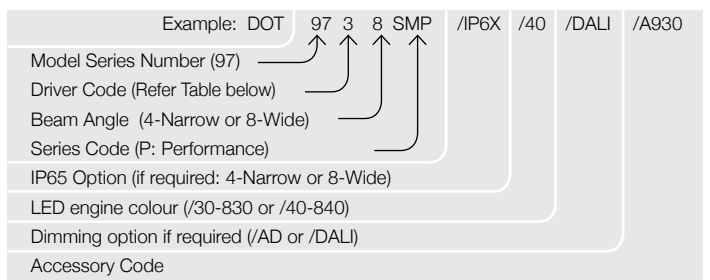
DUST PROOF OPTICAL ASSEMBLY OPTION (Factory Fitted)



White Ceiling Plate A930/01 fitted to downlight as standard.

Total Energy Consumption $P_L(W)$ – Refer LED Performance Guide	1600 gms
Weight	Complies
IEC 60598.1.2	Complies
AS/NZS60598.1.2	Refer Accessory
IP Rating	
Dimming Options Available	
– Analogue dimming 1-10 volt	AD
– DALI dimming	DALI

ORDERING CODE FORMAT



LED GUIDE – DOT 9700SMP PERFORMANCE SERIES (Wide Beam Option)

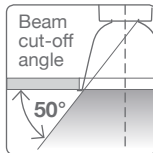
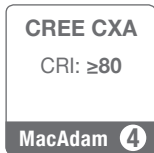
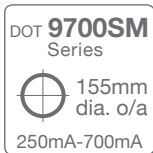
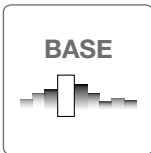
DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9738SMP/30	350mA (3)	13.7	1379	100.7	70,000
DOT 9738SMP/40	350mA (3)	13.6	1487	109.3	70,000
DOT 9758SMP/30	500mA (5)	19.3	1966	101.9	65,000
DOT 9758SMP/40	500mA (5)	19.4	2023	104.3	65,000
DOT 9778SMP/30 ^A	700mA (7)	26.9	2593	96.4	60,000
DOT 9778SMP/40	700mA (7)	26.9	2722	101.2	60,000
DOT 9798SMP/30 ^A	900mA (9)	34.6	3228	93.3	55,000
DOT 9798SMP/40	900mA (9)	34.6	3397	98.2	55,000

^A Figures extrapolated / interpolated from data at other currents.
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.
 – Narrow beam option may vary ± 2%.

NOTE See following pages for Accessories and Photometric Data

DOT **9700SMB LED**
SURFACE MOUNTED
BASE SERIES

DOT **LED**



MODEL

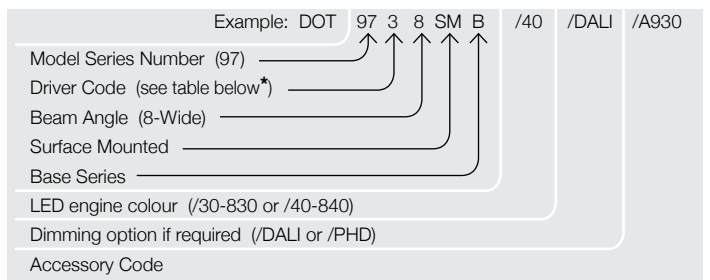


White Ceiling Plate A930/01 fitted to downlight as standard.

Total Energy Consumption P _L (W) – Refer LED Performance Guide	
Weight	1600 gms
IEC 60598 - parts 1 and 2	Complies
AS/NZS60598 - parts 1 and 2	Complies
IP Rating	Refer Accessory

Dimming Options Available	
- DALI	DALI
- Phase cutting (chopping) dimming	PHD

ORDERING CODE FORMAT



LED GUIDE – DOT 9700SMB SURFACE MOUNTED BASE SERIES

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9728SMB/30 ^A	250mA (2)	10.0	1099	109.0	76,000
DOT 9728SMB/40	250mA (2)	10.0	1099	109.0	76,000
DOT 9738SMB/30 ^A	350mA (3)	14.3	1464	102.0	76,000
DOT 9738SMB/40	350mA (3)	14.3	1464	102.0	76,000
DOT 9778SMB/30 ^A	700mA (7)	30.0	2608	86.9	76,000
DOT 9778SMB/40	700mA (7)	30.0	2608	86.9	76,000

^A Figures extrapolated / interpolated from data at other currents.

^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

NOTE See following pages for Accessories and Photometric Data





Accessories

AXLOCK ACCESSORIES
 Fitted to downlight *after* installation

Accessory trims available
 White /01 or Silver /55 or Black /11



	<p>XL930 Ceiling Plate – w/ highlight IP20 Moulded polycarbonate – 155mm dia. overall</p>		<p>XL931-CL Flush Clear Lens w/ highlight IP65 Moulded polycarbonate – 155mm dia. overall</p>
	<p>XL931-DL Flush Clear Lens w/highlight IP65 Moulded polycarbonate – 155mm dia. overall</p>		<p>XL933 Round Washlite Lens w/highlight IP65 Moulded polycarbonate – 155mm dia. overall</p>
	<p>A930 Ceiling Plate – Round IP20 Moulded polycarbonate – 155mm dia. overall</p>		<p>A931-CL Flush Clear Lens IP65 Moulded polycarbonate – 155mm dia. overall</p>
	<p>A931-DL Flush Clear Lens IP65 Moulded polycarbonate – 155mm dia. overall</p>		<p>A933 Round Washlite Lens IP65 Moulded polycarbonate – 155mm dia. overall</p>
	<p>A937-FG Round Flush Glass IP54 5mm thick toughened glass with sandblasted centre. – 158mm dia. overall</p>		<p>A937-DG Round Dropped Glass IP20 5mm thick toughened glass with sandblasted centre. – 158mm dia. overall</p>

**Secured Access
Accessories**

SECURED ACCESS
ACCESSORIES

Fitted to downlight **before** installation

Accessory trims available

White /01 or Silver /55 or Black /11



 TORX tamperproof fasteners

	<p>XL931-CL/SA Round Clear Lens with highlight IP64 Moulded polycarbonate – 192mm dia.</p> 		<p>A931-CL/SA Round Clear Lens IP64 Moulded polycarbonate – 192mm dia.</p> 
	<p>A933/SA Round Washlight Lens IP64 Moulded polycarbonate – 192mm dia.</p> 		<p>A931-DL/SA Round Soft Diffusion Lens IP64 Moulded polycarbonate – 192mm dia.</p> 

 TORX tamperproof fasteners



PROSPEC OPTIONS

Project Specific Accessory Options
– Factory Fitted

Accessory trims available

White /01 or Silver /55 or Black /11



	<p>A9701 UGR Reduction Accessory For improved visual comfort with wide beam models.</p>		<p>EM Emergency Self contained emergency unit – 3 hours. Features inverter and battery pack ≥550 lumens output in emergency mode. Available with most models.</p>
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155mm dia. o/a

EXCEL

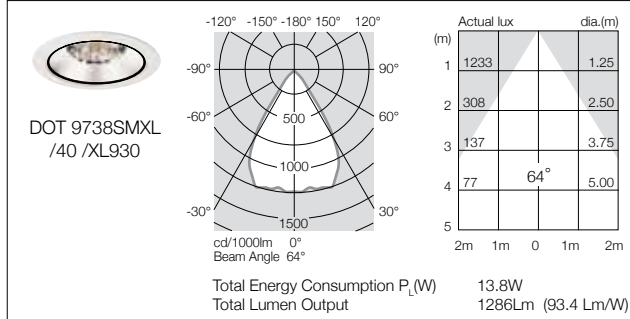


DOT **LED**

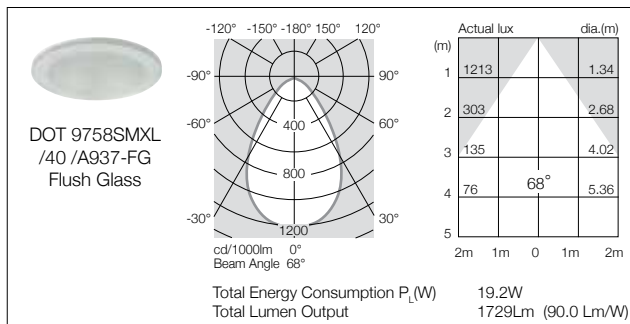
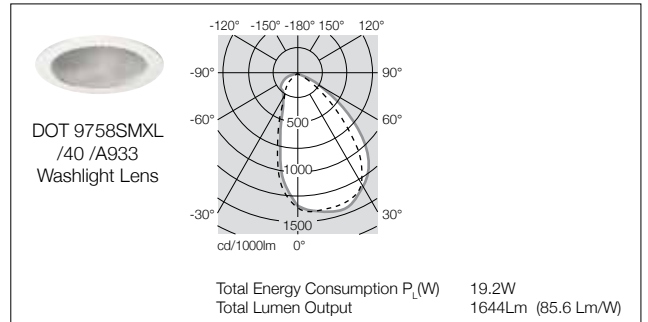
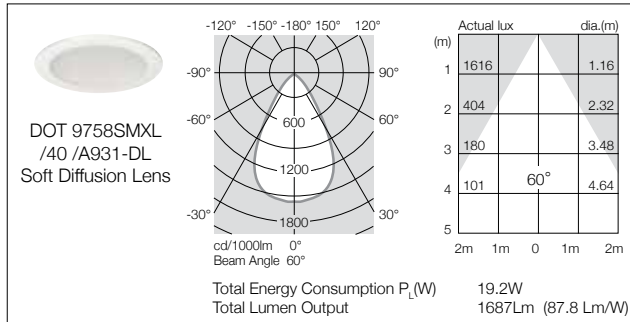
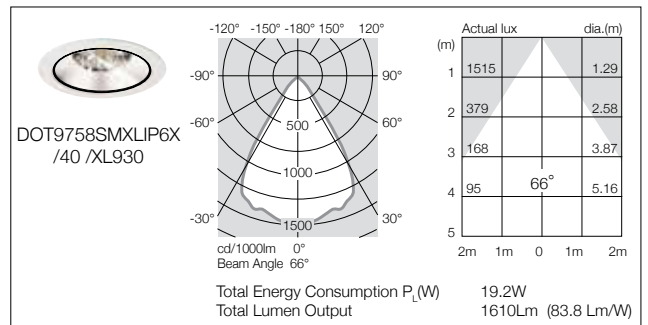
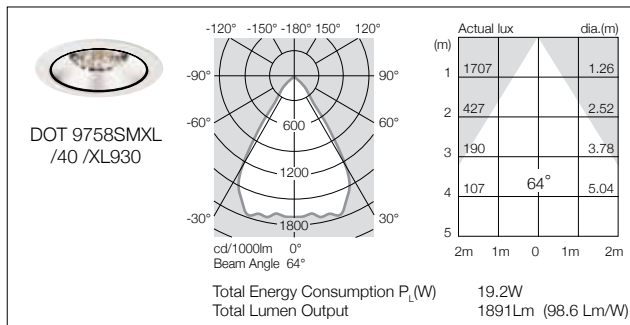
Photometric Data

DOT 9700SMXL LED
EXCEL SERIES

350 mA
CREE CXB
LED



500 mA
CREE CXB
LED





155mm dia. o/a

EXCEL

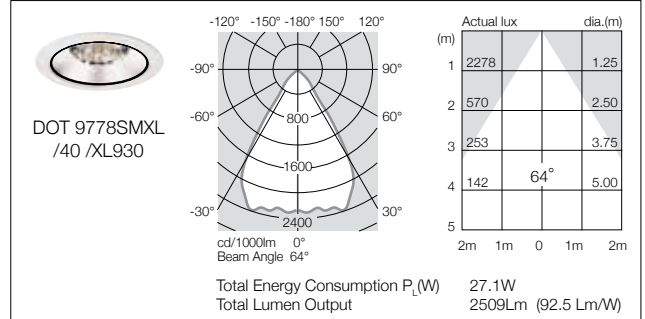
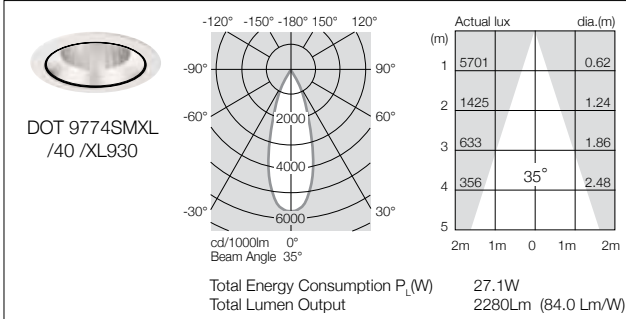


DOT **LED**

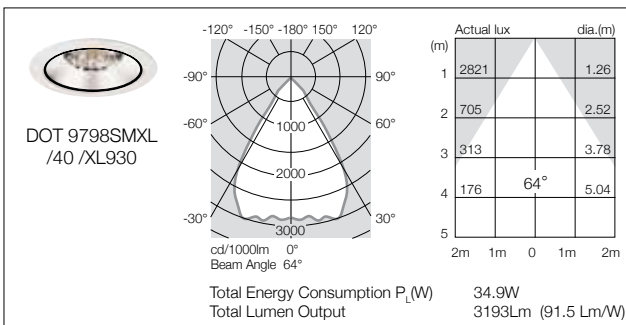
Photometric Data

DOT 9700SMXL LED
EXCEL SERIES

700 mA
CREE CXB
LED



900 mA
CREE CXB
LED





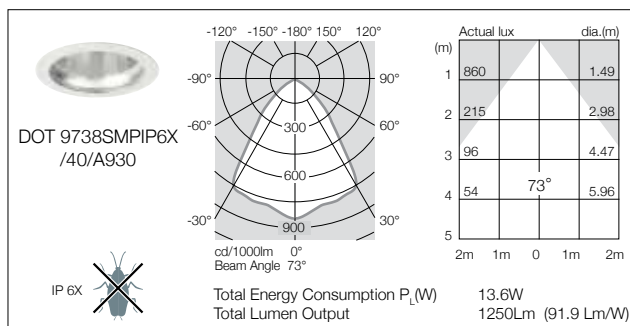
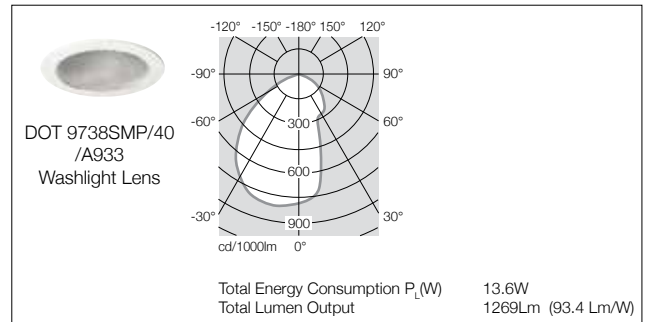
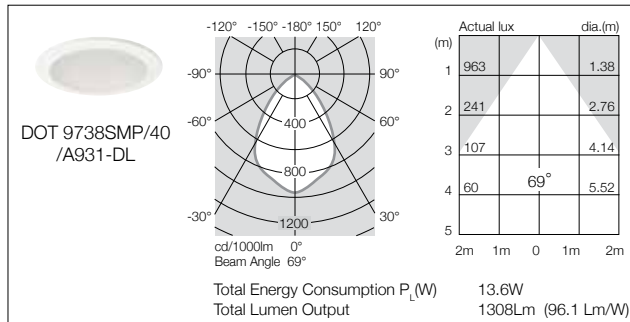
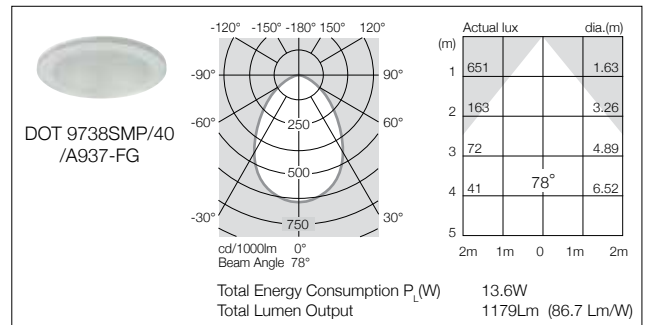
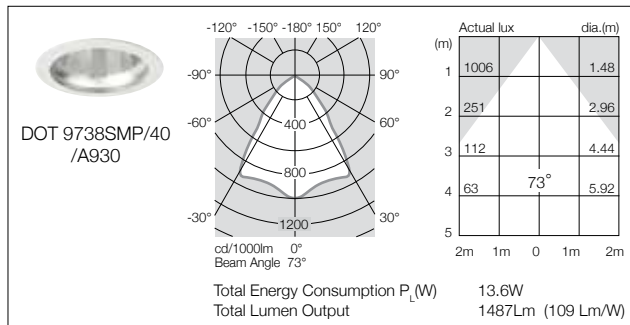
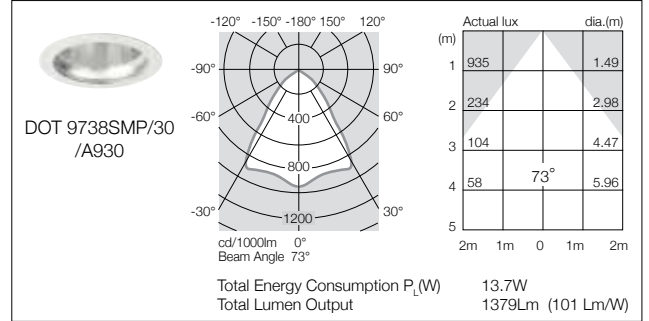
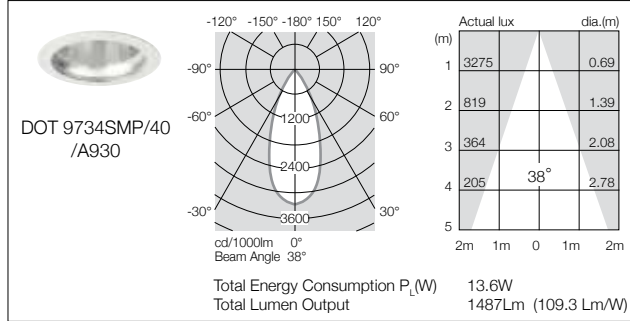
155mm dia. o/a



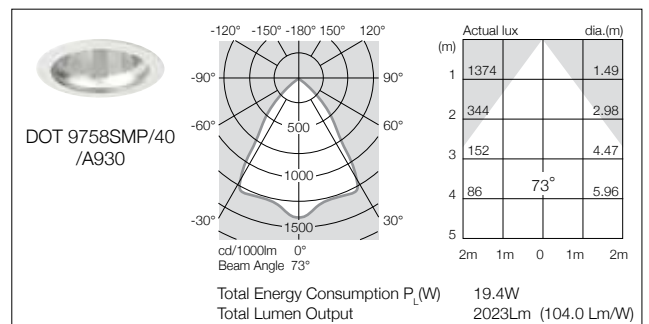
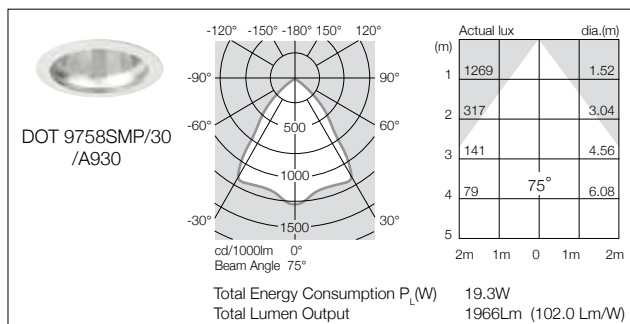
Photometric Data

DOT **9700SMP** LED
PERFORMANCE SERIES

350 mA
CREE CXA
LED



500 mA
CREE CXA
LED





155mm dia. o/a

PERFORMANCE



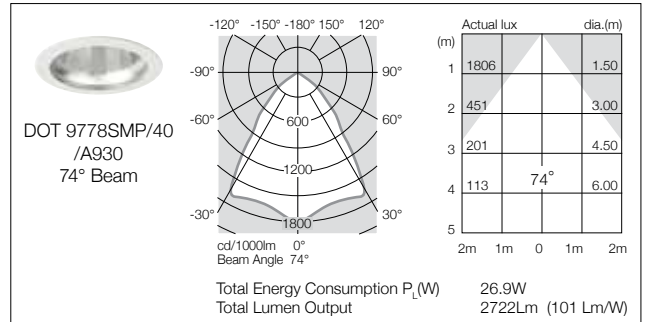
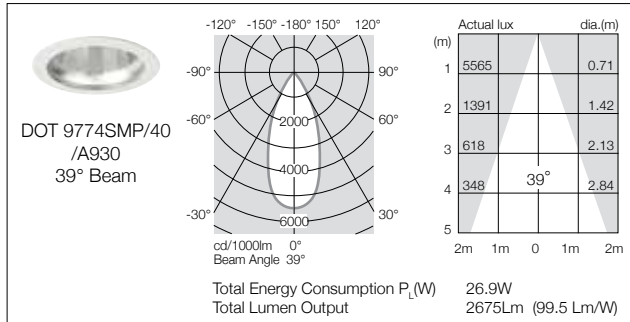
BASE



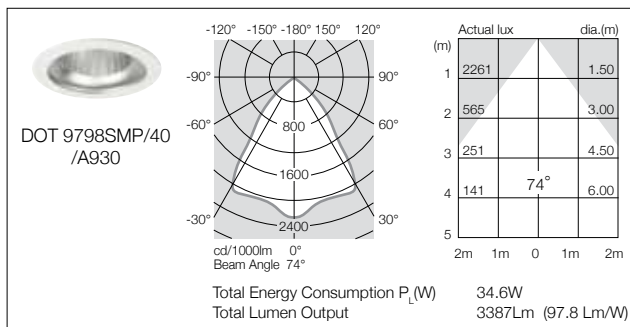
Photometric Data

DOT 9700SMP LED
PERFORMANCE SERIES

700 mA
CREE CXA
LED

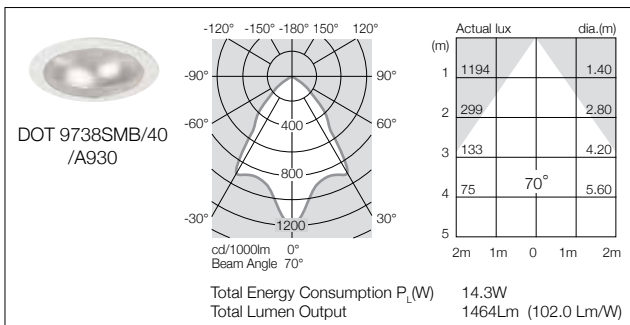


900 mA
CREE CXA
LED

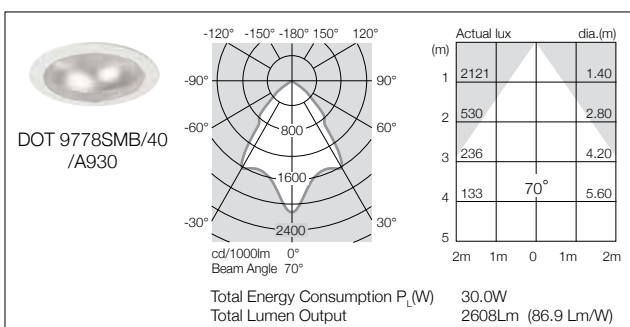


DOT 9700SMB LED
BASE SERIES

350 mA
CREE CXA
LED



700 mA
CREE CXA
LED



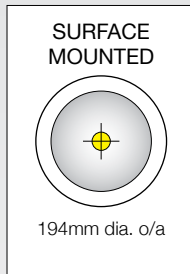


DOT
9900_{SM}

EXCEL



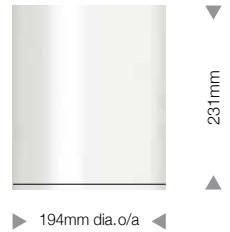
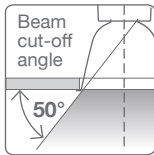
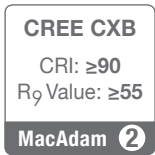
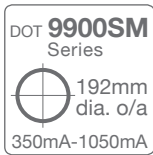
PERFORMANCE



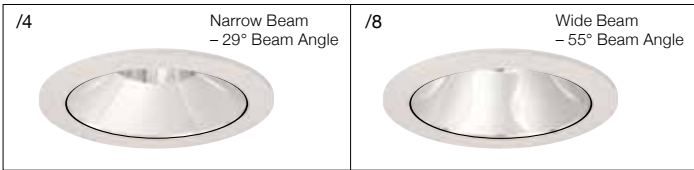
<p>DOT 9900SMXL 1200-5871 LM CREE CXB : CRI ≥90 MacAdam 2</p>	<p>DOT 9000SMP 1557-6806 LM CREE CXA : CRI ≥83 MacAdam 3</p>
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DOT **9900SMXL LED**
SURFACE MOUNTED
EXCEL SERIES

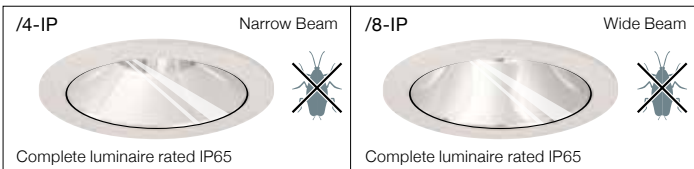
DOT **LED**



MODELS (Reflector Options)



DUST PROOF OPTICAL ASSEMBLY OPTION (Factory Fitted)

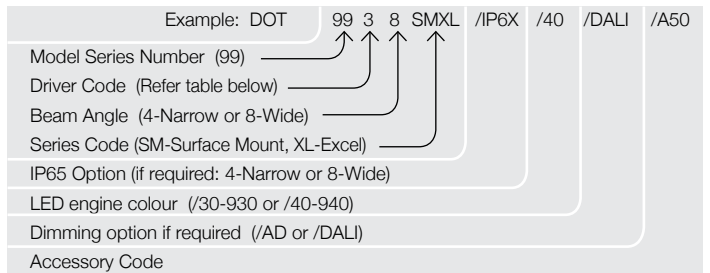


White Ceiling Plate XL50/01 fitted to downlight as standard.

Total Energy Consumption P _L (W) – Refer LED Performance Guide		
Weights	Luminaire Body	1680 gms
IEC 60598 - parts 1 and 2		Complies
AS/NZS60598 - parts 1 and 2		Complies
Cyanosis (Australia only)		4000k option approved
IP Rating		Refer Accessory

Dimming Options Available		AD
- Analogue dimming 1-10 volt		DALI
- DALI / switchDIM / DSI dimming		

ORDERING CODE FORMAT



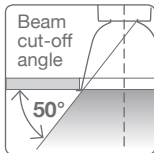
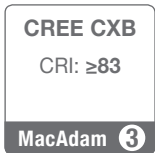
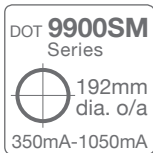
LED GUIDE – DOT 9900SMXL EXCEL SERIES (Wide Beam Option)

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9938SMXL/30 ^A	350mA (3)	13.5	1200	88.9	>100,000
DOT 9938SMXL/40 ^A	350mA (3)	13.5	1379	102.1	>100,000
DOT 9958SMXL/30 ^A	500mA (5)	19.0	1666	87.7	>100,000
DOT 9958SMXL/40	500mA (5)	19.0	1915	100.8	>100,000
DOT 9978SMXL/30 ^A	700mA (7)	27.1	2284	84.3	>100,000
DOT 9978SMXL/40 ^A	700mA (7)	27.1	2625	96.9	>100,000
DOT 9998SMXL/30 ^A	900mA (9)	33.6	2930	87.2	>100,000
DOT 9998SMXL/40 ^A	900mA (9)	33.6	3369	100.2	>100,000
DOT 99108SMXL/30 ^A	1050mA (10)	38.9	3272	84.1	>100,000
DOT 99108SMXL/40 ^A	1050mA (10)	38.9	3761	96.7	>100,000

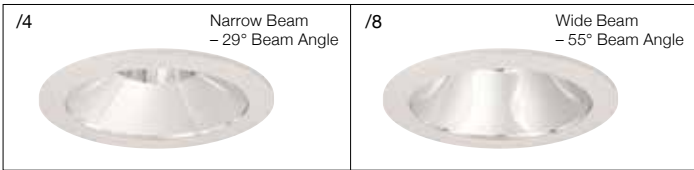
^A Figures extrapolated / interpolated from data at other currents.

^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

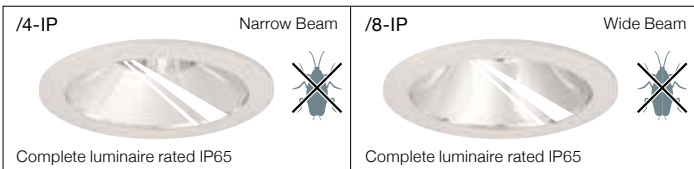




MODELS (Reflector Options)



DUST PROOF OPTICAL ASSEMBLY OPTION (Factory Fitted)

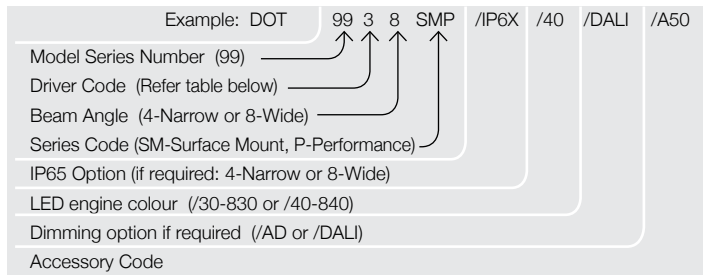


White Ceiling Plate A50/01 fitted to downlight as standard.

Total Energy Consumption P _L (W) – Refer LED Performance Guide		
Weights	Luminaire Body	1680 gms
IEC 60598 - parts 1 and 2		Complies
AS/NZS60598 - parts 1 and 2		Complies
Cyanosis (Australia only)		4000k option approved
IP Rating		Refer Accessory

Dimming Options Available	
- Analogue dimming 1-10 volt	AD
- DALI / switchDIM / DSI dimming	DALI

ORDERING CODE FORMAT

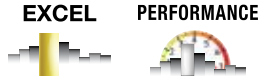


LED GUIDE – DOT 9900SMP PERFORMANCE SERIES (Wide Beam Option)

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9938SMP/30 ^A	350mA (3)	13.5	1557	115.3	>100,000
DOT 9938SMP/40	350mA (3)	13.5	1656	122.7	>100,000
DOT 9958SMP/30 ^A	500mA (5)	19.0	2160	113.7	>100,000
DOT 9958SMP/40	500mA (5)	19.0	2298	120.9	>100,000
DOT 9978SMP/30 ^A	700mA (7)	27.1	2962	109.3	>100,000
DOT 9978SMP/40	700mA (7)	27.1	3151	116.3	>100,000
DOT 9998SMP/30 ^A	900mA (9)	33.6	3799	113.1	>100,000
DOT 9998SMP/40	900mA (9)	33.6	4042	120.3	>100,000
DOT 99108SMP/30 ^A	1050mA (10)	38.9	4243	109.1	>100,000
DOT 99108SMP/40	1050mA (10)	38.9	4514	116.0	>100,000

^A Figures extrapolated / interpolated from data at other currents.

^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.



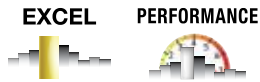
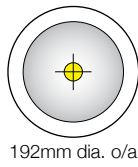
Accessories

AXLOCK ACCESSORIES
Fitted to downlight *after* installation
Accessory trims available
White /01 or Silver /55 or Black /11



	<p>A50 Round Ceiling Plate IP20 Moulded polycarbonate - 192mm dia. overall</p>		<p>XL50 Round Ceiling Plate w/highlight IP20 Moulded polycarbonate - 192mm dia. overall</p>
	<p>A52-CL Round Flush Clear Lens IP65 Moulded polycarbonate - 192mm dia. overall</p>		<p>XL52-CL Round Flush Clear Lens w/highlight IP65 Moulded polycarbonate - 192mm dia. overall</p>
	<p>A52-DL Round Soft Diffusion Lens IP65 Moulded polycarbonate - 192mm dia. overall</p>		<p>A12-FG Round Flush Glass IP54 5mm thick toughened glass with sandblasted centre. - 195mm dia. overall</p>
	<p>A12-DG Round Dropped Glass IP20 5mm thick toughened glass with sandblasted centre. - 195mm dia. overall</p>		

DOT **9900 SM**SERIES
SURFACE MOUNTED



Secured Access Accessories

SECURED ACCESS ACCESSORIES

Fitted to downlight **before** installation

Accessory trims available

White /01 or Silver /55 or Black /11



 TORX tamperproof fasteners



XL52-CL/SA
Round Clear Lens
w/highlight

IP64
Moulded polycarbonate
- 192mm dia. overall



A52-CL/SA
Round Clear Lens

IP64
Moulded polycarbonate
- 192mm dia. overall



A52-DL/SA
Round Soft Diffusion
Lens

IP64
Moulded polycarbonate
- 192mm dia. overall



TORX tamperproof fasteners

PROSPEC OPTIONS

Project Specific Accessory Options
- Factory Fitted

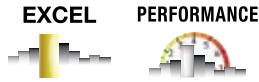
Accessory trims available

White /01 or Silver /55 or Black /11



EM Emergency

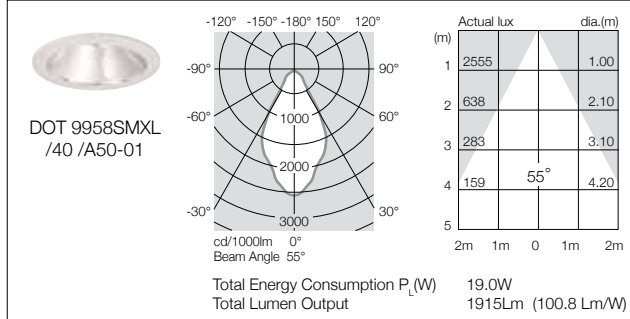
Self contained emergency unit - 3 hours. Features inverter and battery pack ≥ 550 lumens output in emergency mode. Available with most models.



Photometric Data

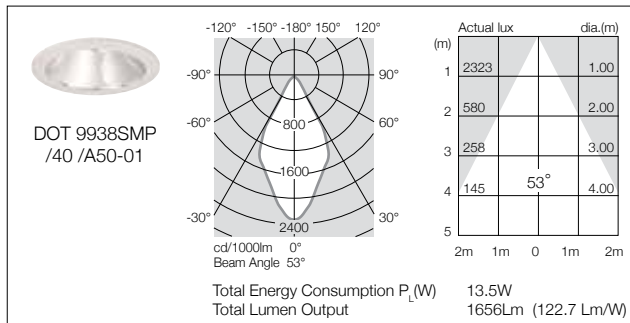
DOT 9900SMXL LED
EXCEL SERIES

500 mA
CREE CXB
LED

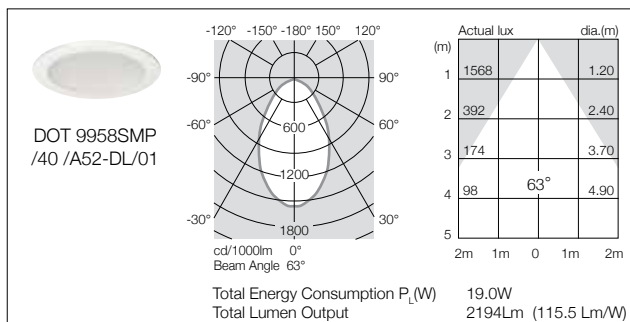
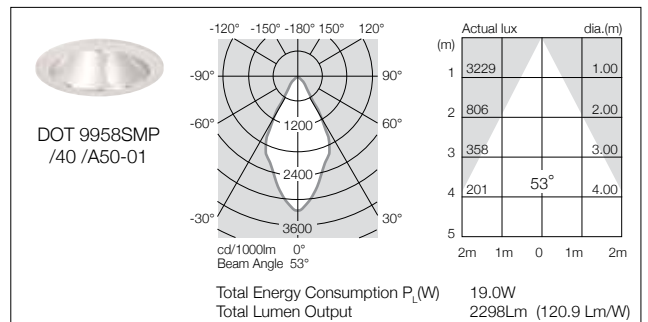
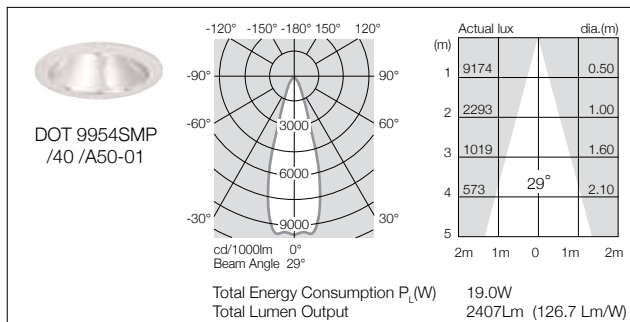


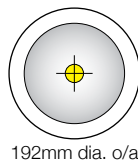
DOT 9900SMP LED
PERFORMANCE SERIES

350 mA
CREE CXB
LED



500 mA
CREE CXB
LED

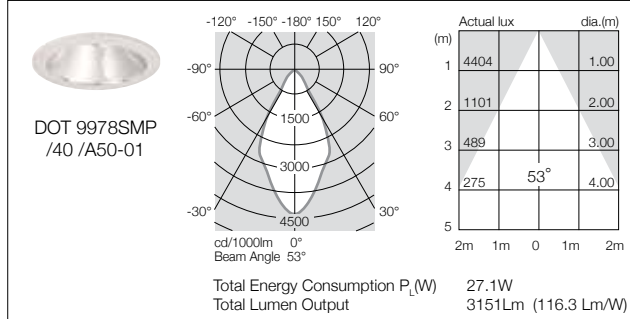




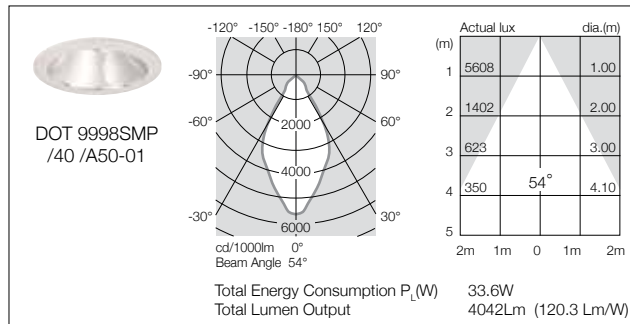
Photometric Data

DOT **9900SMP** LED
PERFORMANCE SERIES

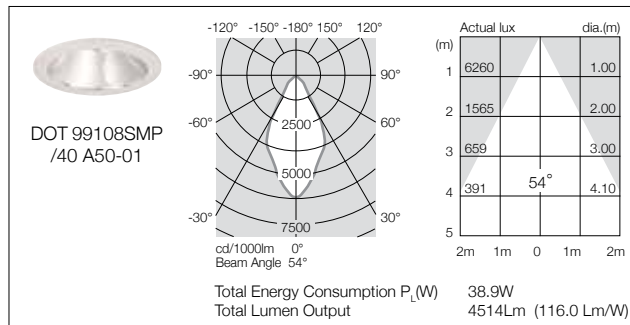
700 mA
CREE CXB
LED



900 mA
CREE CXB
LED



1050 mA
CREE CXB
LED



SURFACE MOUNTED SQUARE



DOT
9400_{SM}



DOT
9800_{SM}



DOT
9400_{SM}

COLOUR



PERFORMANCE



SURFACE MOUNTED



120mm sq. o/a



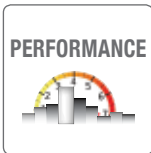
DOT 9400SMC
1200-1700 LM
CREE CXA : CRI ≥92
MacAdam 2



DOT 9400SMP
1300-1800 LM
CREE CXA : CRI ≥80
MacAdam 3

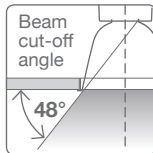
DOT **9400SMP** LED
PERFORMANCE SERIES

DOT **LED**



DOT **9400SM**
Series
118mm
sq. o/a
350mA

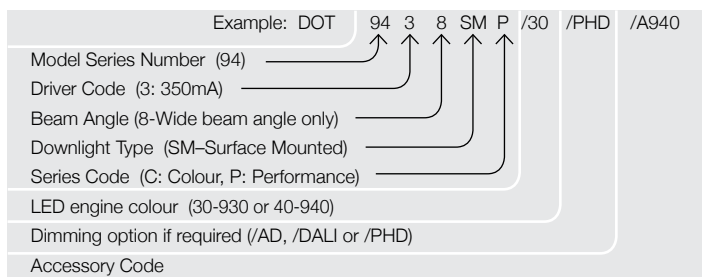
CREE CXA
CRI: **≥80**
MacAdam 3



■ Square white body with white A940/01 fitted to downlight as standard.

Silver Reflector – Wide angle beam	
Total Energy Consumption P_L (W) – Refer LED Performance Guide below	
Weight	1360 gms
IEC 60598.1.2	Complies
AS/NZS60598.1.2	Complies
IP Rating	Refer Accessory
Dimming Options Available	
– Analogue dimming 1-10 volt	AD
– DALI / switchDIM / DSI dimming	DALI
– Phase cutting (chopping) dimming	PHD

■ ORDERING CODE FORMAT



■ LED GUIDE – DOT 9100SMP PERFORMANCE SERIES

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9438SMP/30	350mA (3)	15.2	980	64.5	61,200
DOT 9438SMP/40 ^A	350mA (3)	15.2	1050	69.1	61,200

^A Figures extrapolated / interpolated from data at other currents.

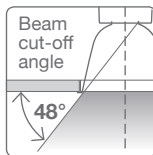
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.





DOT **9400SM** Series
118mm sq. o/a
350mA

CREE CXA
CRI: ≥ 92
R_g Value: ≥ 72
MacAdam 2

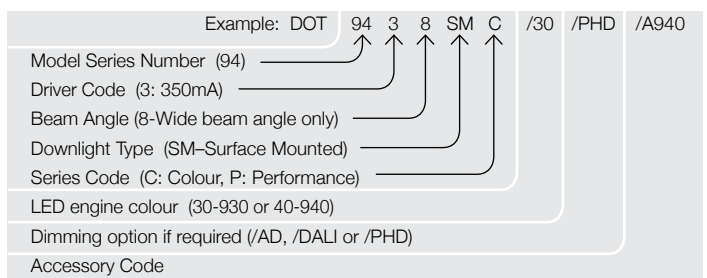


Square white body with white A940/01 fitted to downlight as standard.

Silver Reflector – Wide angle beam	
Total Energy Consumption P _L (W) – Refer LED Performance Guide below	
Weight	1360 gms
IEC 60598.1.2	Complies
AS/NZS60598.1.2	Complies
Cyanosis (Australia only)	4000k option approved
IP Rating	Refer Accessory

Dimming Options Available	
– Analogue dimming 1-10 volt	AD
– DALI / switchDIM / DSI dimming	DALI
– Phase cutting (chopping) dimming	PHD

ORDERING CODE FORMAT



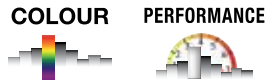
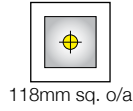
LED GUIDE – DOT 9100SMC COLOUR SERIES

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9438SMC/30 ^A	350mA (3)	15.0	860	57.3	61,200
DOT 9438SMC/40 ^A	350mA (3)	15.2	913	60.1	61,200

^A Figures extrapolated / interpolated from data at other currents.

^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

DOT **9400SM**SERIES
SURFACE MOUNTED



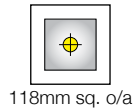
Accessories

AXLOCK ACCESSORIES
Fitted to downlight **after** installation

Accessory trims available
White /01 or Silver /55 or Black /11

	<p>A940 Square Ceiling Plate IP20 Moulded polycarbonate - 118mm square overall</p>		<p>A942-CL Square Clear Ceiling Lens IP54 Moulded polycarbonate - 118mm square overall</p>
	<p>A942-DL Square Soft Diffusion Lens IP54 Moulded polycarbonate - 118mm square overall</p>		<p>A944 Square Washlight Lens IP54 5mm thick toughened glass with sandblasted centre. - 118mm square overall</p>
	<p>A945-FG Square Flush Glass IP54 5mm thick toughened glass with sandblasted centre. - 120mm square overall</p>		

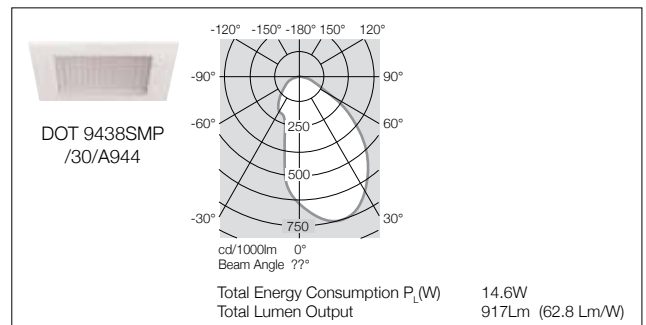
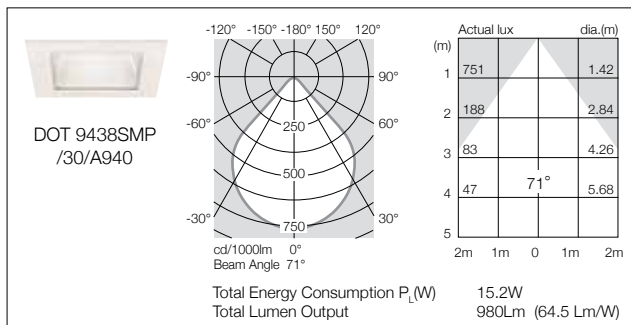
DOT **9400SM**SERIES
SURFACE MOUNTED



Photometric Data

DOT **9400SMP LED**
PERFORMANCE SERIES

350 mA
CREE CXA
LED





DOT
9800_{SM}

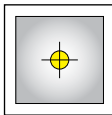
PERFORMANCE



COLOUR



SURFACE MOUNTED



164mm sq. o/a



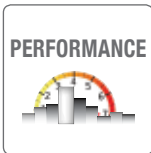
DOT 9800SMP
1300-6000 LM
CREE CXA : CRI ≥83
MacAdam 3



DOT 9800SMC
1100-5000 LM
CREE CXA : CRI ≥94
MacAdam 2

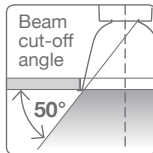
DOT **9800SMP** LED
PERFORMANCE SERIES

DOT **LED**



DOT **9800SM**
Series
164mm
sq. o/a
350mA-900mA

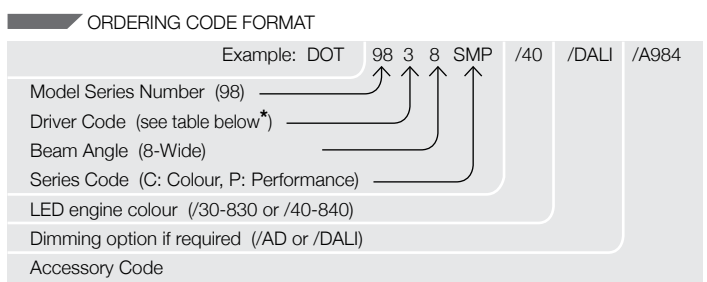
CREE CXA
CRI: **≥83**
MacAdam 3



■ Square white body with White A980/01 fitted to downlight as standard.

Total Energy Consumption $P_{L(W)}$ – Refer LED Performance Guide	
Weight	1600 gms
IEC 60598.1.2	Complies
AS/NZS60598.1.2	Complies
IP Rating	Refer Accessory

Dimming Options Available	
- Analogue dimming 1-10 volt	AD
- DALI dimming	DALI



■ LED GUIDE – DOT 9800SMP PERFORMANCE SERIES

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9838SMP/30 ^A	350mA (3)	13.7	1190	86.9	70,000
DOT 9838SMP/40	350mA (3)	13.8	1282	93.1	70,000
DOT 9858SMP/30 ^A	500mA (3)	19.3	1660	86.0	65,000
DOT 9858SMP/40 ^A	500mA (3)	19.4	1744	89.9	65,000
DOT 9878SMP/30 ^A	700mA (3)	26.9	2233	83.0	60,000
DOT 9878SMP/40 ^A	700mA (3)	26.9	2346	87.2	60,000
DOT 9898SMP/30 ^A	900mA (3)	34.6	2780	80.3	55,000
DOT 9898SMP/40 ^A	900mA (3)	34.6	2927	84.6	55,000

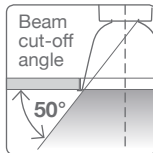
^A Figures extrapolated / interpolated from data at other currents.
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.





DOT **9800SM**
Series
164mm
sq. o/a
350mA-900mA

CREE CXA
CRI: ≥ 94
R_g Value: ≥ 81
MacAdam 2



■ Square white body with White A980/01 fitted to downlight as standard.

Total Energy Consumption P _L (W) – Refer LED Performance Guide	
Weight	1600 gms
IEC 60598.1.2	Complies
AS/NZS60598.1.2	Complies
Cyanosis (Australia only)	4000k option approved
IP Rating	Refer Accessory

Dimming Options Available	
- Analogue dimming 1-10 volt	AD
- DALI dimming	DALI

■ ORDERING CODE FORMAT

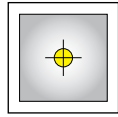
Example: DOT	98	3	8	SMC	/40	/DALI	/A984
Model Series Number (98)	98						
Driver Code (see table below*)		3					
Beam Angle (8-Wide)			8				
Series Code (C: Colour, P: Performance)				SMC			
LED engine colour (/30-930 or /40-940)					/40		
Dimming option if required (/AD or /DALI)						/DALI	
Accessory Code							/A984

■ LED GUIDE – DOT 9800SMC COLOUR SERIES

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9838SMC/30 ^A	350mA (3)	13.7	998	72.8	70,000
DOT 9838SMC/40 ^A	350mA (3)	13.8	1068	77.4	70,000
DOT 9858SMC/30 ^A	500mA (5)	19.3	1325	68.7	65,000
DOT 9858SMC/40 ^A	500mA (5)	19.4	1462	75.4	65,000
DOT 9878SMC/30 ^A	700mA (7)	26.9	1793	66.7	60,000
DOT 9878SMC/40 ^A	700mA (7)	26.9	1994	74.1	60,000
DOT 9898SMC/30 ^A	900mA (9)	34.6	2190	63.3	55,000
DOT 9898SMC/40 ^A	900mA (9)	34.6	2435	70.4	55,000

^A Figures extrapolated / interpolated from data at other currents.
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.





164mm sq. o/a

PERFORMANCE



COLOUR



DOT **LED**

Accessories

AXLOCK ACCESSORIES

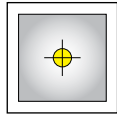
Fitted to downlight **after** installation

Accessory trims available

White /01 or Silver /55 or Black /11



 <p>A980 Square Ceiling Plate IP20 Moulded polycarbonate – 164mm square overall</p>	 <p>A982-CL Square Clear Ceiling Lens IP54 Moulded polycarbonate – 164mm square overall</p>
 <p>A982-DL Square Soft Diffusion Lens IP54 Moulded polycarbonate – 164mm square overall</p>	 <p>A984 Square Washlight Lens IP54 5mm thick toughened glass with sandblasted centre. – 164mm square overall</p>
 <p>A985-FG Square Flush Glass IP54 5mm thick toughened glass with sandblasted centre. – 164mm square overall</p>	



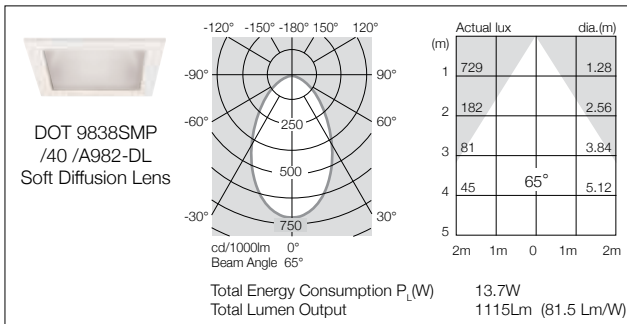
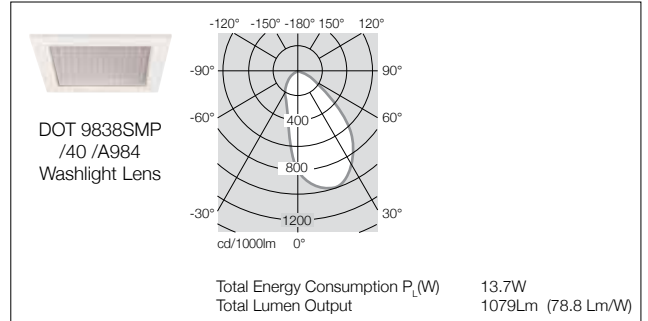
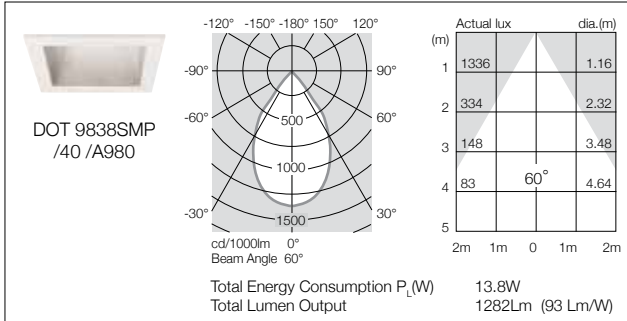
164mm sq. o/a



Photometric Data

**DOT 9800SMP LED
PERFORMANCE SERIES**

350 mA
CREE CXA
LED



SUSPENDED ROUND



DOT
9100s



DOT
9700s



DOT
9900s

SUSPENDED ROUND



DOT 9100s

EXCEL



PERFORMANCE



SUSPENDED



105mm dia. o/a

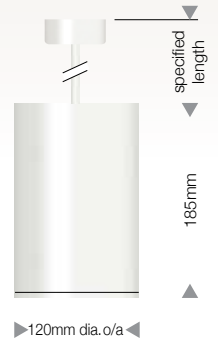
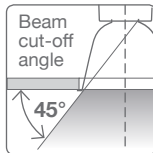
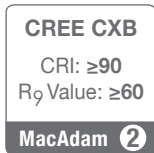
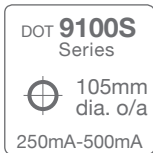


DOT 9100SXL
1200-1700 LM
CREE CXA : CRI \geq 92
MacAdam 2

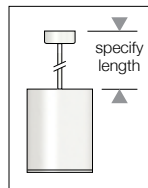


DOT 9100SP
1300-1800 LM
CREE CXA : CRI \geq 80
MacAdam 3

DOT **9100SXL** LED
EXCEL SERIES



REFLECTOR



Round trim white A920/01 fitted to downlight as standard.

Silver Reflector – Narrow or Wide angle beam option		
Total Energy Consumption P _L (W) – Refer LED Performance Guide below		
Weights	Luminaire Body	700 gms
	Remote Driver	100 gms
IEC 60598.1.2		Complies
AS/NZS60598.1.2		Complies
Cyanosis (Australia only)		4000k option approved
IP Rating		Refer Accessory

Dimming Options Available		
– Analogue dimming 1-10 volt		AD
– DALI / switchDIM / DSI dimming		DALI
– Phase cutting (chopping) dimming		PHD

ORDERING CODE FORMAT

Example: DOT	91	3	8	S	C	/30	/PHD	/ASM920
Model Series Number (91)	↑	↑	↑	↑	↑			
Driver Code (3: 350mA)		↑	↑	↑	↑			
Beam Angle (4-Narrow or 8-Wide)			↑	↑	↑			
Downlight Type (S-Suspended)				↑	↑			
Series Code (C: Colour, P: Performance)					↑			
LED engine colour (30-930 or 40-940)						↑		
Dimming option if required (/AD, /DALI or /PHD)							↑	
Accessory Code								↑

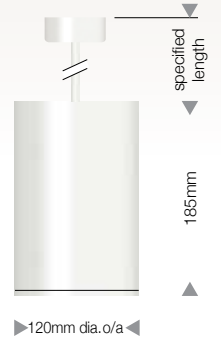
LED GUIDE – DOT 9100SXL EXCEL SERIES

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9128SXL/30 ^A	250mA (2)	10.0	936	63.6	≥75,000
DOT 9128SXL/40 ^A	250mA (2)	10.0	1051	105.0	≥75,000
DOT 9138SXL/30 ^A	350mA (2)	14.0	1351	96.5	≥75,000
DOT 9138SXL/40	350mA (2)	14.0	1447	103.0	≥75,000
DOT 9158SXL/30 ^A	500mA (2)	21.0	1741	82.9	≥75,000
DOT 9158SXL/40 ^A	500mA (2)	21.0	1954	93.0	≥75,000

^A Figures extrapolated / interpolated from data at other currents.
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

NOTE See following pages for Accessories and Photometric Data





PERFORMANCE

DOT 9100S Series

105mm dia. o/a
250mA-500mA

CREE CXA

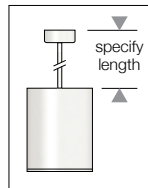
CRI: **≥80**
R_g Value: **≥15**

MacAdam 2

Beam cut-off angle

REFLECTOR

/8 Wide Beam
- 70° Beam Angle



Round trim white A920/01 fitted to downlight as standard.

Silver Reflector – Narrow or Wide angle beam option		
Total Energy Consumption P _L (W) – Refer LED Performance Guide below		
Weights	Luminaire Body	700 gms
	Remote Driver	100 gms
IEC 60598.1.2		Complies
AS/NZS60598.1.2		Complies
IP Rating		Refer Accessory

Dimming Options Available

- Analogue dimming 1-10 volt	AD
- DALI / switchDIM / DSI dimming	DALI
- Phase cutting (chopping) dimming	PHD

ORDERING CODE FORMAT

Example: DOT 91 3 8 S P /30 /PHD /ASM920

Model Series Number (91)	91
Driver Code (2: 250mA, 3: 350mA)	3
Beam Angle (8-Wide)	8
Downlight Type (S-Suspended)	S
Series Code (P: Performance)	P
LED engine colour (30-930 or 40-940)	/30
Dimming option if required (/AD, /DALI or /PHD)	/PHD
Accessory Code	/ASM920

LED GUIDE – DOT 9100SP PERFORMANCE SERIES

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9128SP/30 ^A	250mA (2)	9.8	1103	112.5	≥75,000
DOT 9128SP/40	250mA (2)	9.8	1185	121.0	≥75,000
DOT 9138SP/30 ^A	350mA (3)	13.9	1518	109.2	≥75,000
DOT 9138SP/40	350mA (3)	13.9	1624	117.0	≥75,000
DOT 9158SP/30 ^A	500mA (5)	20.3	2051	101.0	≥75,000
DOT 9158SP/40	500mA (5)	20.3	2194	108.0	≥75,000

^A Figures extrapolated / interpolated from data at other currents.
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.

NOTE See following pages for Accessories and Photometric Data

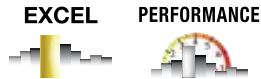


Accessories

AXLOCK ACCESSORIES
Fitted to downlight **after** installation

Accessory trims available
White /01 or Silver /55 or Black /11

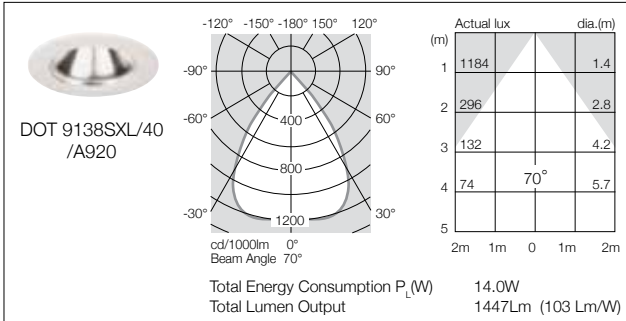
	<p>ASM920 Round Ceiling Plate IP20 Moulded polycarbonate - 105mm dia. overall</p>		<p>XLSM920 Round Ceiling Plate w/high light IP20 Moulded polycarbonate - 105mm dia. overall</p>
	<p>ASM921-CL Round Flush Clear Lens IP65 Moulded polycarbonate - 105mm dia. overall</p>		<p>XLSM921-CL Round Flush Clear Lens w/high light IP65 Moulded polycarbonate - 105mm dia. overall</p>
	<p>ASM921-DL Round Soft Diffusion Lens IP65 Moulded polycarbonate - 105mm dia. overall</p>		<p>XLSM921-DL Round Soft Diffusion Lens w/high light IP65 Moulded polycarbonate - 105mm dia. overall</p>
	<p>ASM923 Round Washlite Lens IP65 Moulded polycarbonate - 105mm dia. overall</p>		<p>XLSM923 Round Washlite Lens w/high light IP65 Moulded polycarbonate - 105mm dia. overall</p>



Photometrics

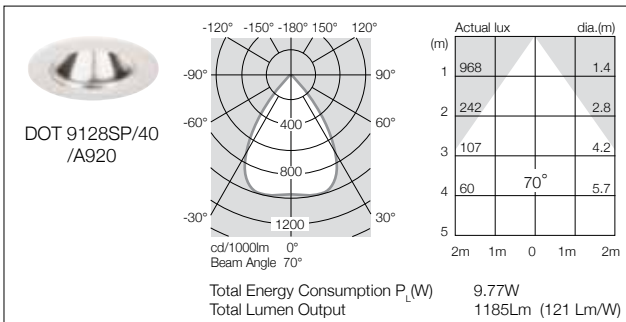
DOT 9100SXL LED
EXCEL SERIES

350 mA
CREE CXB
LED

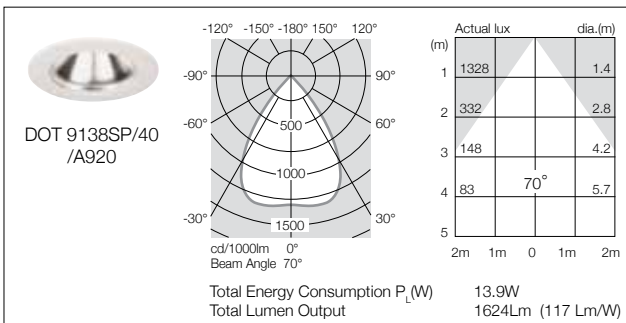


DOT 9100SP LED
PERFORMANCE SERIES

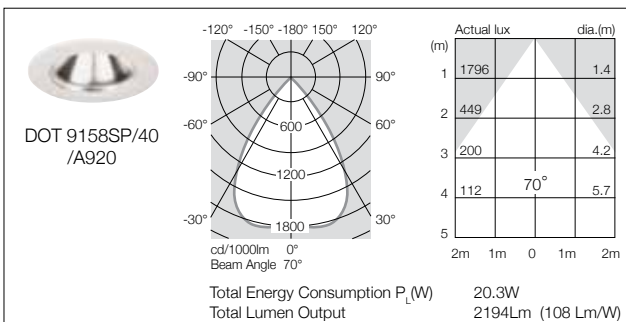
250 mA
CREE CXB
LED



350 mA
CREE CXB
LED



500 mA
CREE CXB
LED





DOT
9700s



DOT
9700s

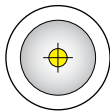
EXCEL



PERFORMANCE



SUSPENDED



155mm dia. o/a



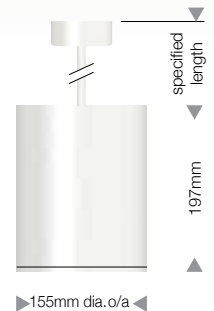
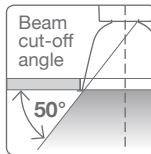
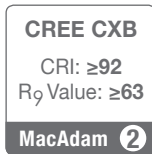
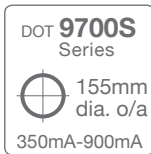
DOT 9700SXL
1150-6000 LM
CREE CXB : CRI ≥92
MacAdam 2



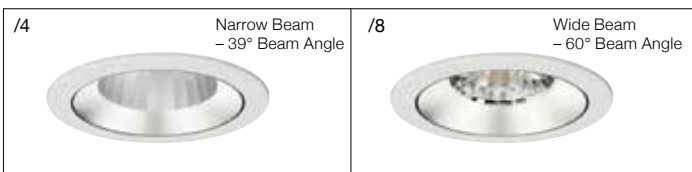
DOT 9700SP
1300-6000 LM
CREE CXA : CRI ≥83
MacAdam 3

DOT **9700SXL LED**
EXCEL SERIES
SUSPENDED DOWNLIGHT

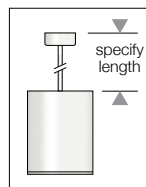
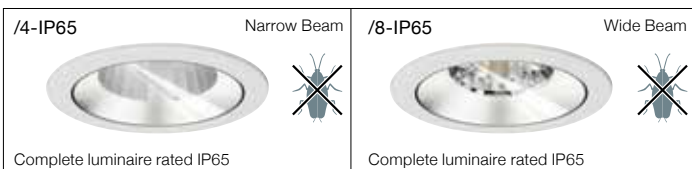
DOT **LED**



MODELS (Reflector Options)



DUST PROOF OPTICAL ASSEMBLY OPTION (Factory Fitted)



White Ceiling Plate A930/01 fitted to downlight as standard.

Total Energy Consumption P _L (W) – Refer LED Performance Guide	
Weight	1780 gms
IEC 60598.1.2	Complies
AS/NZS60598.1.2	Complies
Cyanosis (Australia only)	4000k option approved
IP Rating	Refer Accessory

Dimming Options Available	
– Analogue dimming 1-10 volt	AD
– DALI dimming	DALI

ORDERING CODE FORMAT

Example: DOT 97 3 8 SXL 200mm /IP65 /40 /AD /A930

Model Series Number (97)	97
Driver Code (Refer Table below)	3
Beam Angle (4-Narrow or 8-Wide)	8
Series Code (S: Suspended, XL: Excel)	SXL
Specify tube length (eg: 200mm)	200mm
IP65 Option (if required: 4-Narrow or 8-Wide)	/IP65
LED engine colour (/30-930 or /40-940)	/40
Dimming option if required (/AD or /DALI)	/AD
Accessory Code	/A930

LED GUIDE – DOT 9700SXL EXCEL SERIES (Wide Beam Option)

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9738SXL/30 ^A	350mA (3)	13.8	1120	81.2	70,000
DOT 9738SXL/40	350mA (3)	13.8	1286	93.4	70,000
DOT 9758SXL/30 ^A	500mA (3)	19.2	1650	85.9	65,000
DOT 9758SXL/40	500mA (3)	19.2	1891	98.6	65,000
DOT 9778SXL/30 ^A	700mA (3)	27.1	2180	80.4	60,000
DOT 9778SXL/40	700mA (3)	27.1	2509	92.5	60,000
DOT 9798SXL/30 ^A	900mA (3)	34.9	2780	79.6	55,000
DOT 9798SXL/40	900mA (3)	34.9	3193	91.5	55,000

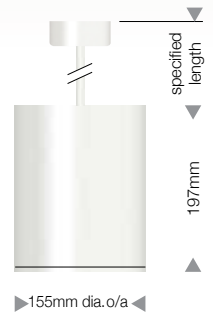
^A Figures extrapolated / interpolated from data at other currents.

^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.
– Narrow beam option may vary ± 2%.



DOT **LED**

DOT **9700SP LED**
PERFORMANCE SERIES
SUSPENDED DOWNLIGHT



PERFORMANCE

DOT **9700S** Series

155mm dia. o/a

350mA-900mA

CREE CXA

CRI: **≥83**

MacAdam **3**

Beam cut-off angle

50°

MODELS (Reflector Options)

/4 Narrow Beam
- 39° Beam Angle

/8 Wide Beam
- 73° Beam Angle

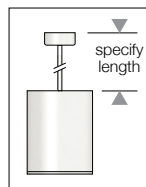
DUST PROOF OPTICAL ASSEMBLY OPTION (Factory Fitted)

/4-IP65 Narrow Beam

Complete luminaire rated IP65

/8-IP65 Wide Beam

Complete luminaire rated IP65



White Ceiling Plate A930/01 fitted to downlight as standard.

Total Energy Consumption P _L (W) – Refer LED Performance Guide	
Weight (Suspended Tube not included)	1780 gms
IEC 60598.1.2	Complies
AS/NZS60598.1.2	Complies
Cyanosis (Australia only)	4000k option approved
IP Rating	Refer Accessory

Dimming Options Available	
- Analogue dimming 1-10 volt	AD
- DALI dimming	DALI

ORDERING CODE FORMAT

Example: DOT 97 3 8S P -200mm /IP65 /40 /AD /A930

Model Series Number (97) →

Driver Code (Refer Table below) →

Beam Angle (4-Narrow or 8-Wide) →

Series Code (P: Performance, X: Excel) →

Specify tube length (eg: 200mm) →

IP65 Option (if required: 4-Narrow or 8-Wide)

LED engine colour (/30-930 or /40-940)

Dimming option if required (/AD or /DALI)

Accessory Code

LED GUIDE – DOT 9700SP PERFORMANCE SERIES (Wide Beam Option)

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9738SP/30	350mA (3)	13.7	1379	100.7	70,000
DOT 9738SP/40	350mA (3)	13.6	1487	109.3	70,000
DOT 9758SP/30	500mA (5)	19.3	1966	101.9	65,000
DOT 9758SP/40	500mA (5)	19.4	2023	104.3	65,000
DOT 9778SP/30 ^A	700mA (7)	26.9	2593	96.4	60,000
DOT 9778SP/40	700mA (7)	26.9	2722	101.2	60,000
DOT 9798SP/30 ^A	900mA (9)	34.6	3228	93.3	55,000
DOT 9798SP/40	900mA (9)	34.6	3397	98.2	55,000

^A Figures extrapolated / interpolated from data at other currents.
^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.
 - Narrow beam option may vary ± 2%.





155mm dia. o/a



Accessories

AXLOCK ACCESSORIES
Fitted to downlight *after* installation

Accessory trims available
White /01 or Silver /55 or Black /11



	<p>XL930 Ceiling Plate – w/ highlight IP20 Moulded polycarbonate – 155mm dia. overall</p>		<p>XL931-CL Flush Clear Lens w/ highlight IP65 Moulded polycarbonate – 155mm dia. overall</p>
	<p>XL931-DL Flush Clear Lens w/highlight IP65 Moulded polycarbonate – 155mm dia. overall</p>		<p>XL933 Round Washlite Lens w/highlight IP65 Moulded polycarbonate – 155mm dia. overall</p>
	<p>A930 Ceiling Plate – Round IP20 Moulded polycarbonate – 155mm dia. overall</p>		<p>A931-CL Flush Clear Lens IP65 Moulded polycarbonate – 155mm dia. overall</p>
	<p>A931-DL Flush Clear Lens IP65 Moulded polycarbonate – 155mm dia. overall</p>		<p>A933 Round Washlite Lens IP65 Moulded polycarbonate – 155mm dia. overall</p>
	<p>A937-FG Round Flush Glass IP54 5mm thick toughened glass with sandblasted centre. – 158mm dia. overall</p>		<p>A937-DG Round Dropped Glass IP20 5mm thick toughened glass with sandblasted centre. – 158mm dia. overall</p>

**Secured Access
Accessories**

**SECURED ACCESS
ACCESSORIES**

Fitted to downlight **before** installation

Accessory trims available

White /01 or Silver /55 or Black /11



 TORX tamperproof fasteners

	<p>XL931-CL/SA Round Clear Lens with highlight IP64 Moulded polycarbonate – 192mm dia.</p> 		<p>A931-CL/SA Round Clear Lens IP64 Moulded polycarbonate – 192mm dia.</p> 
	<p>A933/SA Round Washlight Lens IP64 Moulded polycarbonate – 192mm dia.</p> 		<p>A931-DL/SA Round Soft Diffusion Lens IP64 Moulded polycarbonate – 192mm dia.</p> 

 TORX tamperproof fasteners



PROSPEC OPTIONS

Project Specific Accessory Options
– Factory Fitted

Accessory trims available

White /01 or Silver /55 or Black /11



	<p>A9701 UGR Reduction Accessory For improved visual comfort with wide beam models.</p>		<p>EM Emergency Self contained emergency unit – 3 hours. Features inverter and battery pack ≥550 lumens output in emergency mode. Available with most models.</p>
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155mm dia. o/a

EXCEL

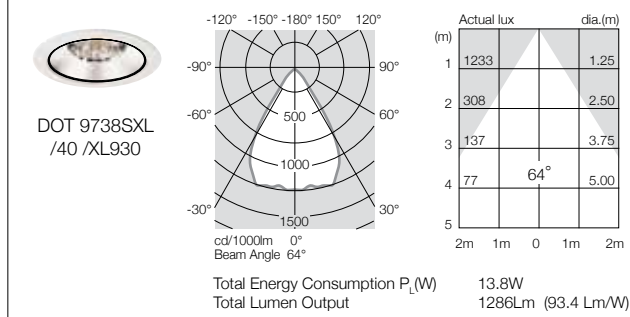


DOT **LED**

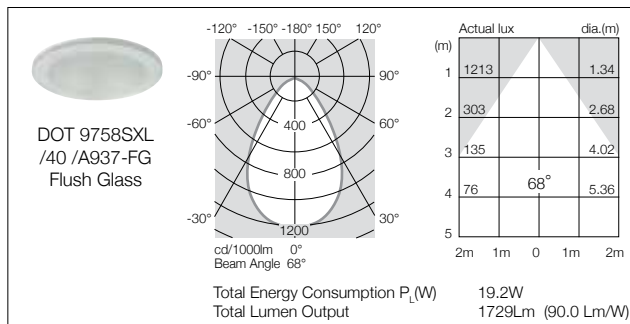
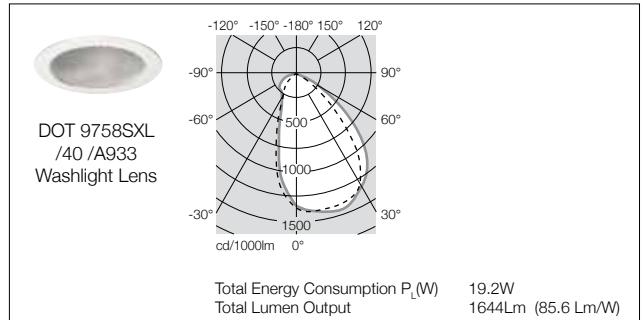
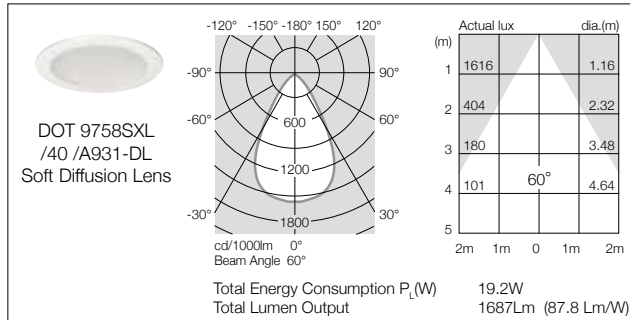
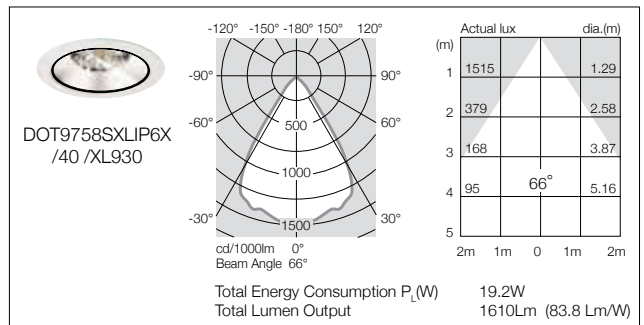
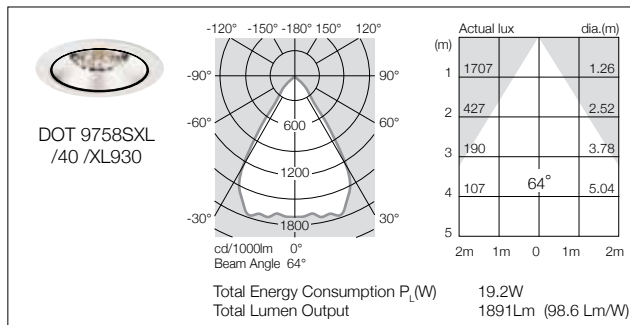
Photometric Data

DOT 9700SXL LED
EXCEL SERIES

350 mA
CREE CXB
LED



500 mA
CREE CXB
LED





155mm dia. o/a

EXCEL

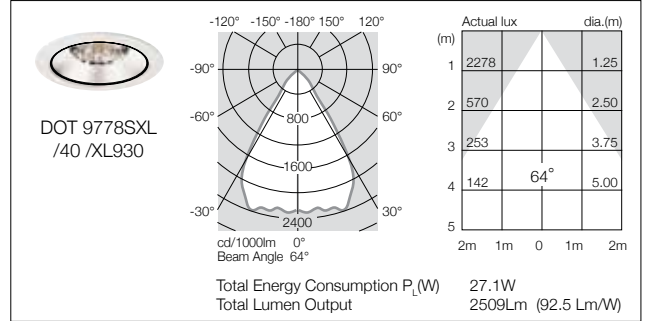
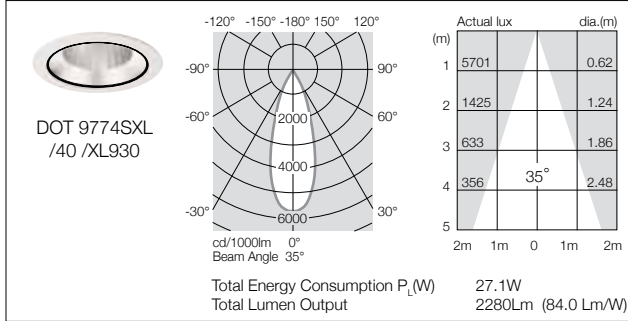


DOT **LED**

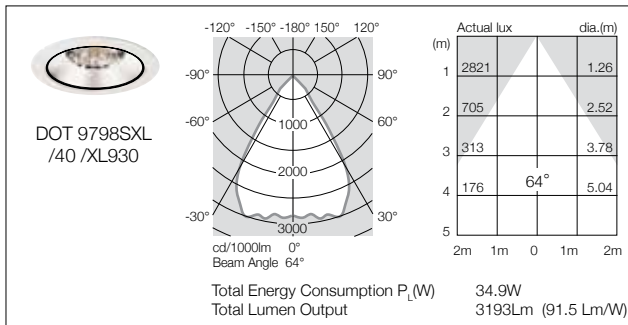
Photometric Data

DOT 9700SXL LED
EXCEL SERIES

700 mA
CREE CXB
LED



900 mA
CREE CXB
LED





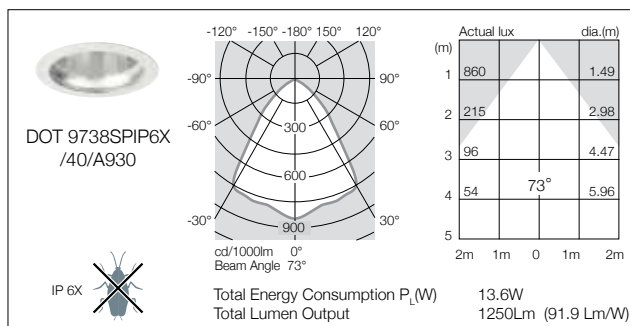
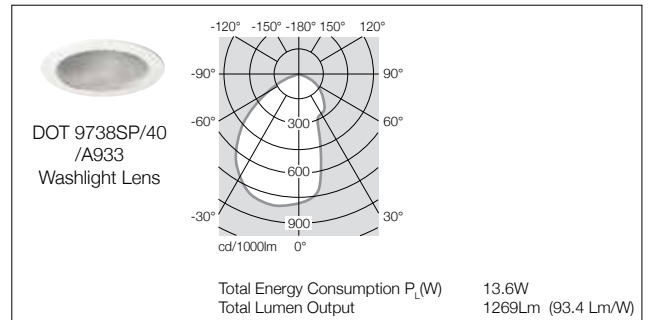
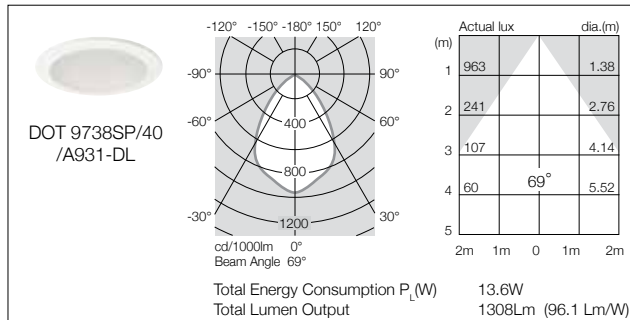
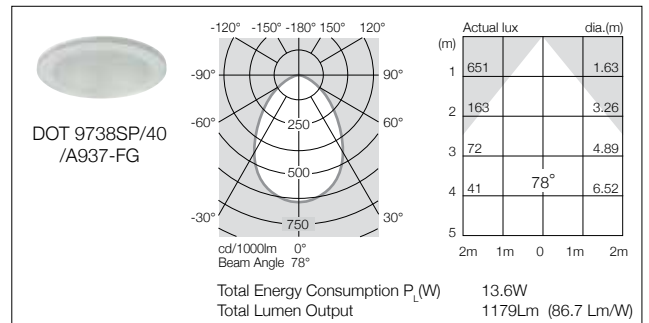
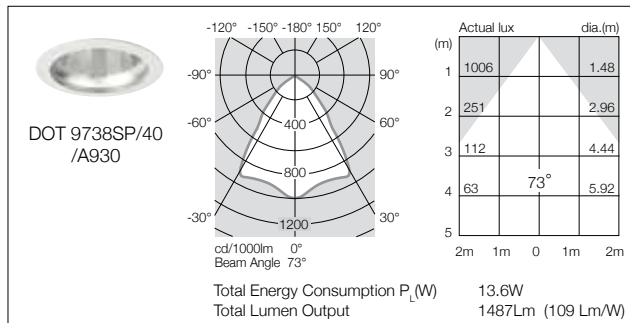
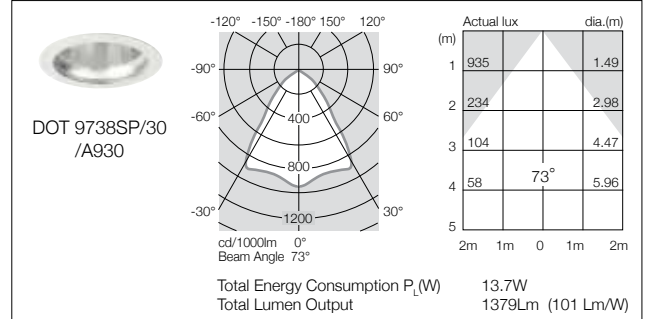
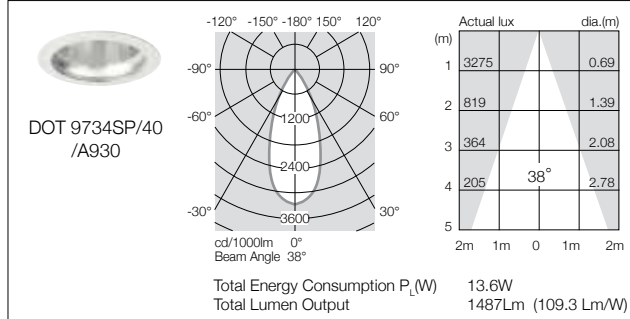
155mm dia. o/a



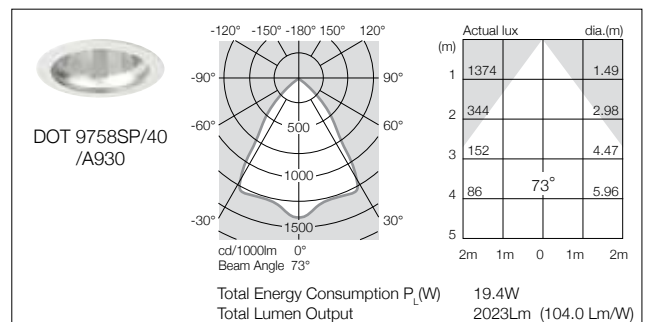
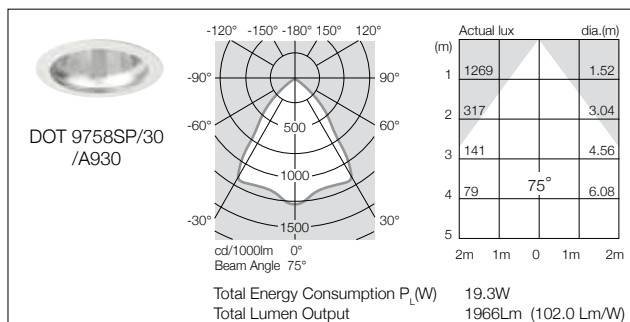
Photometric Data

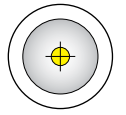
DOT **9700SP LED**
PERFORMANCE SERIES

350 mA
CREE CXA
LED



500 mA
CREE CXA
LED





155mm dia. o/a

PERFORMANCE



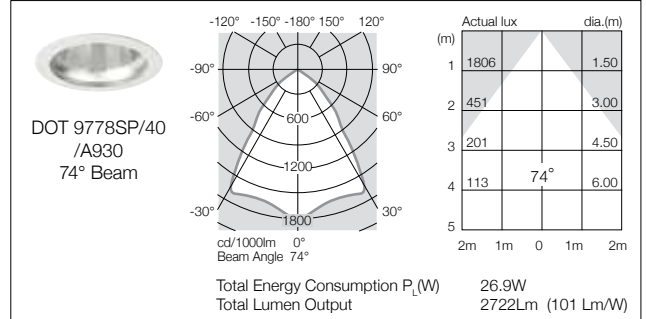
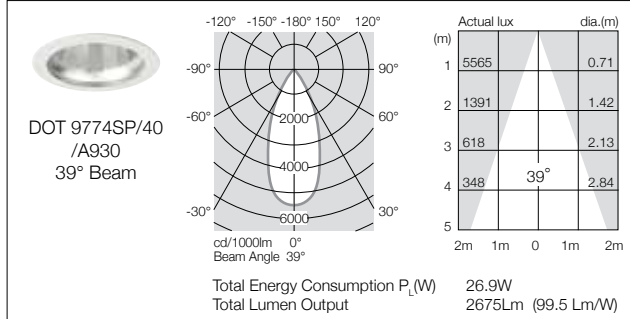
BASE



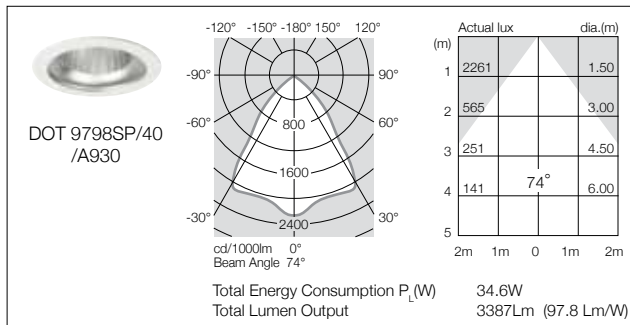
Photometric Data

DOT 9700SP LED
PERFORMANCE SERIES

700 mA
CREE CXA
LED



900 mA
CREE CXA
LED





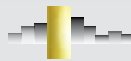
DOT
9900s

SUSPENDED ROUND

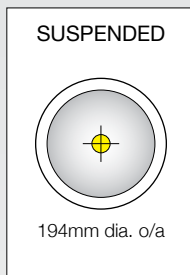


DOT 9900s

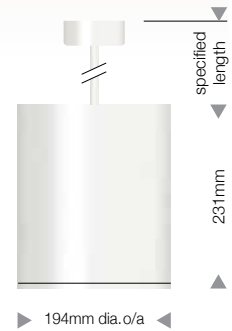
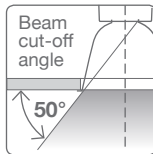
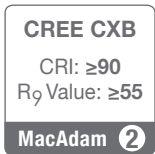
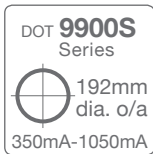
EXCEL



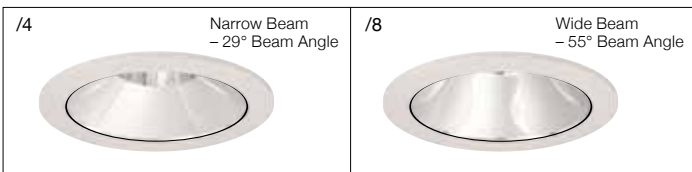
PERFORMANCE



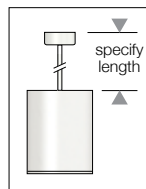
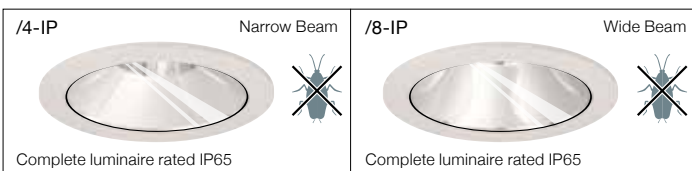
DOT **9900SXL** LED
SUSPENDED DOWNLIGHT
EXCEL SERIES



MODELS (Reflector Options)



DUST PROOF OPTICAL ASSEMBLY OPTION (Factory Fitted)



White Ceiling Plate XL50/01 fitted to downlight as standard.

Total Energy Consumption P_L (W) – Refer LED Performance Guide		
Weights	Luminaire Body	1860 gms
IEC 60598 - parts 1 and 2		Complies
AS/NZS60598 - parts 1 and 2		Complies
Cyanosis (Australia only)		4000k option approved
IP Rating		Refer Accessory

Dimming Options Available		
- Analogue dimming 1-10 volt		AD
- DALI / switchDIM / DSI dimming		DALI

ORDERING CODE FORMAT

Example: DOT 99 3 8 SXL-200mm /IP6X /40 /AD /A50

Model Series Number (99)	99
Driver Code (Refer Table below)	3
Beam Angle (4-Narrow or 8-Wide)	8
Series Code (S: Suspended, XL: Excel)	SXL-200mm
Specify tube length (eg: 200mm)	
IP65 Option (if required: 4-Narrow or 8-Wide)	/IP6X
LED engine colour (/30-930 or /40-940)	/40
Dimming option if required (/AD or /DALI)	/AD
Accessory Code	/A50

LED GUIDE – DOT 9900SXL EXCEL SERIES (Wide Beam Option)

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9938SXL/30 ^A	350mA (3)	13.5	1200	88.9	≥10,000
DOT 9938SXL/40 ^A	350mA (3)	13.5	1379	102.1	≥10,000
DOT 9958SXL/30 ^A	500mA (5)	19.0	1666	87.7	≥10,000
DOT 9958SXL/40	500mA (5)	19.0	1915	100.8	≥10,000
DOT 9978SXL/30 ^A	700mA (7)	27.1	2284	84.3	≥10,000
DOT 9978SXL/40 ^A	700mA (7)	27.1	2625	96.9	≥10,000
DOT 9998SXL/30 ^A	900mA (9)	33.6	2930	87.2	≥10,000
DOT 9998SXL/40 ^A	900mA (9)	33.6	3369	100.2	≥10,000
DOT 99108SXL/30 ^A	1050mA (10)	38.9	3272	84.1	≥10,000
DOT 99108SXL/40 ^A	1050mA (10)	38.9	3761	96.7	≥10,000

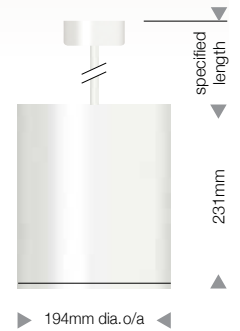
^A Figures extrapolated / interpolated from data at other currents.

^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.



DOT **LED**

DOT **9900SP LED**
SUSPENDED DOWNLIGHT
PERFORMANCE SERIES



PERFORMANCE

DOT **9900S** Series

192mm dia. o/a

350mA-1050mA

CREE CXA

CRI: **≥83**

MacAdam 3

Beam cut-off angle

50°

MODELS (Reflector Options)

/4 Narrow Beam
- 29° Beam Angle

/8 Wide Beam
- 55° Beam Angle

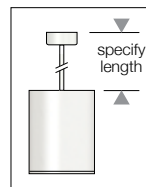
DUST PROOF OPTICAL ASSEMBLY OPTION (Factory Fitted)

/4-IP Narrow Beam

Complete luminaire rated IP65

/8-IP Wide Beam

Complete luminaire rated IP65



White Ceiling Plate A50/01 fitted to downlight as standard.

Total Energy Consumption P_L (W) – Refer LED Performance Guide		
Weights	Luminaire Body	1860 gms
IEC 60598 - parts 1 and 2		Complies
AS/NZS60598 - parts 1 and 2		Complies
Cyanosis (Australia only)		4000k option approved
IP Rating		Refer Accessory

Dimming Options Available	
- Analogue dimming 1-10 volt	AD
- DALI / switchDIM / DSI dimming	DALI

ORDERING CODE FORMAT

Example: DOT 99 3 8 SP-200mm /IP6X /40 /AD /A50

Model Series Number (99) → 99

Driver Code (Refer Table below) → 3

Beam Angle (4-Narrow or 8-Wide) → 8

Series Code (S:Suspended, P:Performance) → SP

Specify tube length (eg: 200mm) → 200mm

IP65 Option (if required: 4-Narrow or 8-Wide) → /IP6X

LED engine colour (/30-930 or /40-940) → /40

Dimming option if required (/AD or /DALI) → /AD

Accessory Code → /A50

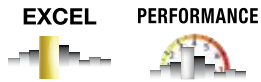
LED GUIDE – DOT 9900SP PERFORMANCE SERIES (Wide Beam Option)

DOT Model No. /30 : 3000k /40 : 4000k	Driver current (mA)	Wattage (W)	Luminaire Output Lumens ^B	Luminaire efficacy (lm/W output)	Lifetime LED engine (Hours @ L90)
DOT 9938SP/30 ^A	350mA (3)	13.5	1557	115.3	≥10,000
DOT 9938SP/40	350mA (3)	13.5	1656	122.7	≥10,000
DOT 9958SP/30 ^A	500mA (5)	19.0	2160	113.7	≥10,000
DOT 9958SP/40	500mA (5)	19.0	2298	120.9	≥10,000
DOT 9978SP/30 ^A	700mA (7)	27.1	2962	109.3	≥10,000
DOT 9978SP/40	700mA (7)	27.1	3151	116.3	≥10,000
DOT 9998SP/30 ^A	900mA (9)	33.6	3799	113.1	≥10,000
DOT 9998SP/40	900mA (9)	33.6	4042	120.3	≥10,000
DOT 99108SP/30 ^A	1050mA (10)	38.9	4243	109.1	≥10,000
DOT 99108SP/40	1050mA (10)	38.9	4514	116.0	≥10,000

^A Figures extrapolated / interpolated from data at other currents.

^B Output Lumens : Delivered lumen output from downlight, including thermal, electrical and optic losses.





Accessories

AXLOCK ACCESSORIES

Fitted to downlight *after* installation

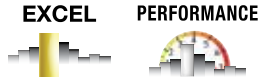
Accessory trims available

White /01 or Silver /55 or Black /11



	<p>A50 Round Ceiling Plate IP20 Moulded polycarbonate – 192mm dia. overall</p>		<p>XL50 Round Ceiling Plate w/highlight IP20 Moulded polycarbonate – 192mm dia. overall</p>
	<p>A52-CL Round Flush Clear Lens IP65 Moulded polycarbonate – 192mm dia. overall</p>		<p>XL52-CL Round Flush Clear Lens w/highlight IP65 Moulded polycarbonate – 192mm dia. overall</p>
	<p>A52-DL Round Soft Diffusion Lens IP65 Moulded polycarbonate – 192mm dia. overall</p>		<p>A12-FG Round Flush Glass IP54 5mm thick toughened glass with sandblasted centre. – 195mm dia. overall</p>
	<p>A12-DG Round Dropped Glass IP20 5mm thick toughened glass with sandblasted centre. – 195mm dia. overall</p>		

DOT **9900 S**SERIES
SUSPENDED DOWNLIGHT



Secured Access Accessories

SECURED ACCESS ACCESSORIES
Fitted to downlight **before** installation

Accessory trims available
White /01 or Silver /55 or Black /11



 TORX tamperproof fasteners



XL52-CL/SA
Round Clear Lens w/highlight
IP64
Moulded polycarbonate
- 192mm dia. overall



A52-CL/SA
Round Clear Lens
IP64
Moulded polycarbonate
- 192mm dia. overall



A52-DL/SA
Round Soft Diffusion Lens
IP64
Moulded polycarbonate
- 192mm dia. overall



TORX tamperproof fasteners

PROSPEC OPTIONS

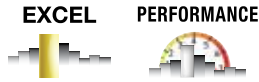
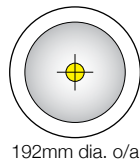
Project Specific Accessory Options
- Factory Fitted

Accessory trims available
White /01 or Silver /55 or Black /11



EM Emergency

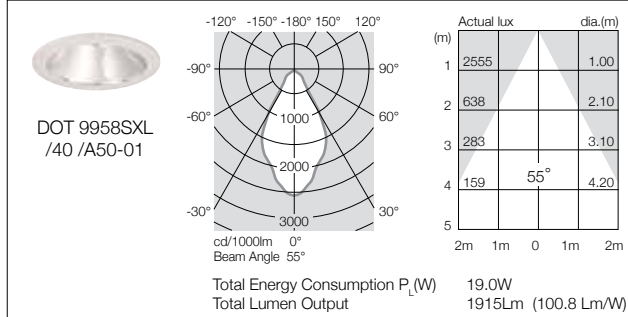
Self contained emergency unit - 3 hours. Features inverter and battery pack ≥ 550 lumens output in emergency mode. Available with most models.



Photometric Data

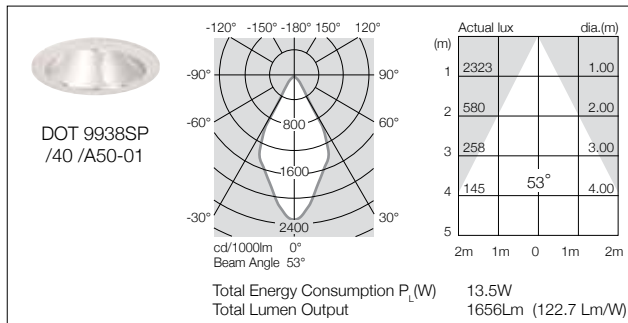
DOT 9900SXL LED
EXCEL SERIES

500 mA
CREE CXB
LED

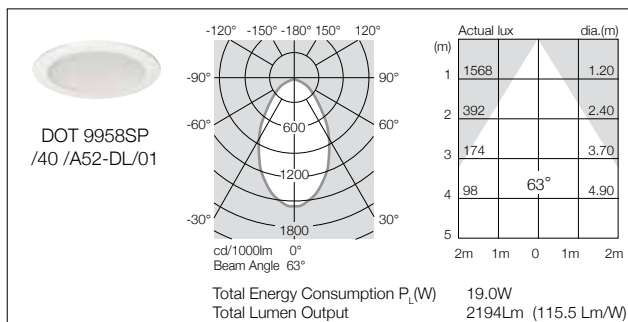
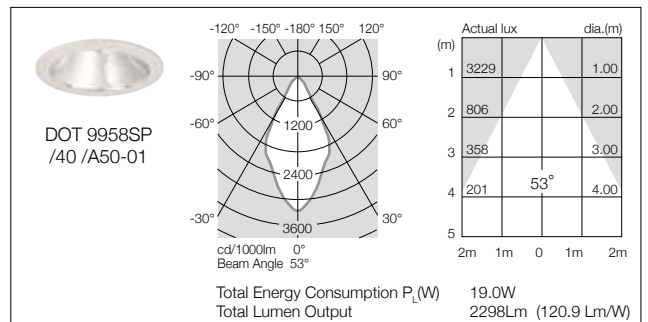
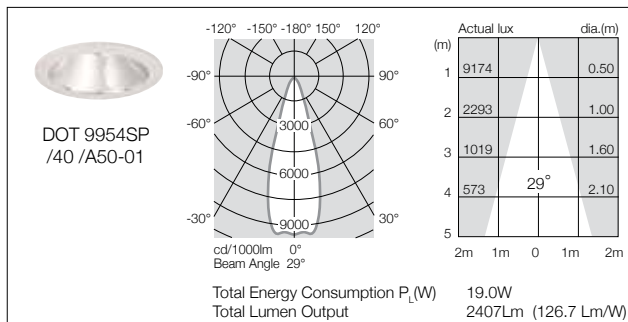


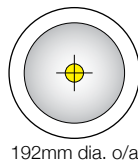
DOT 9900SP LED
PERFORMANCE SERIES

350 mA
CREE CXA
LED



500 mA
CREE CXA
LED

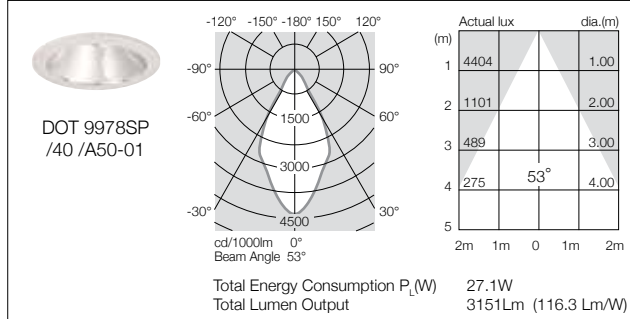




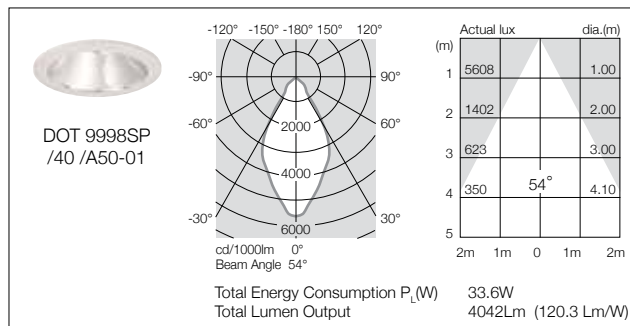
Photometric Data

DOT **9900SP** LED
PERFORMANCE SERIES

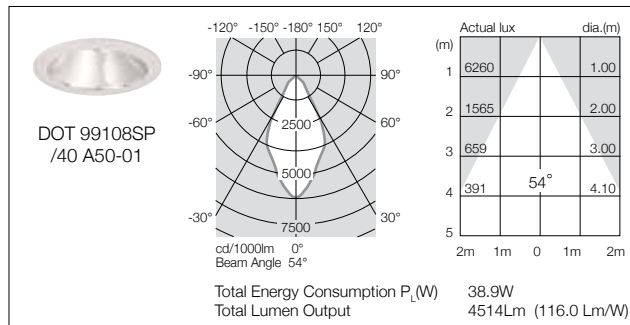
700 mA
CREE CXA
LED



900 mA
CREE CXA
LED



1050 mA
CREE CXA
LED







Dimming Options

Understanding the different dimming types is critical to the success of any lighting project.



Macadam Steps and CRI



IP and IK Ratings

Understanding the protection levels required in different environments is critical to the longevity and safety of all lighting projects.



Installation Instructions



DOT Distributors



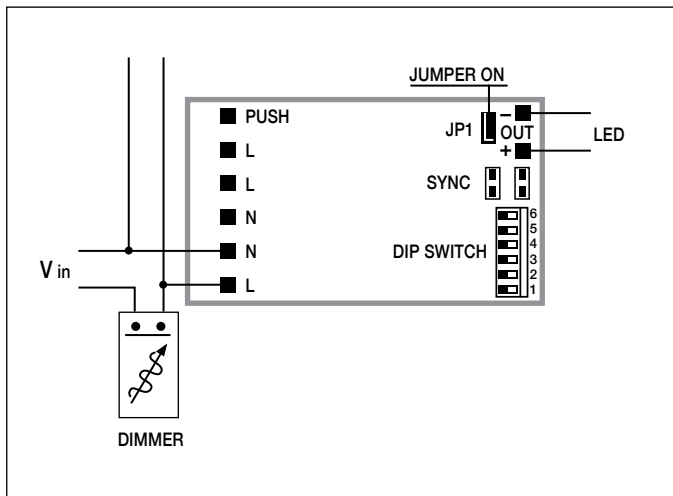
Warranty

Dimming Options

Understanding the different dimming types is critical to the success of any lighting project.

Phase-Cut Dimming (Trailing Edge/Leading Edge)

The most basic form of dimming, originally developed for incandescent loads. This is your typical domestic type dimmer. No additional wiring other than standard 2C+E. The dimmer simply “chops” or “cuts” the voltage signal going to the light fitting. Dimmer is simply added to the Active line.

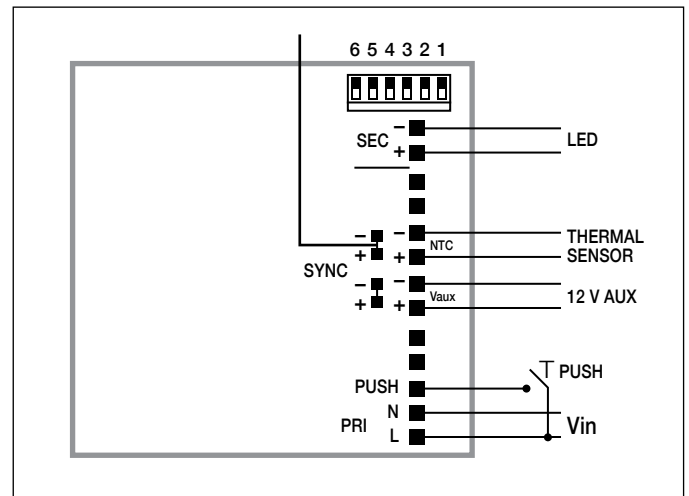


TCCI DRIVER

- No extra wiring is required.
- Standard Trailing Edge/Universal Dimmer can be used.
- Available in out-puts ranging from 350mA – 750mA

PUSH DIM

Is one of the simplest types of dimming available on the market, and is suitable for use in small to medium sized installations. No low voltage cables or no digital controllers are required - Each downlight requires a standard 2C+E plus a 1 or 2 Core Switch wire, a “normally open” type push button switch is required to operate a PUSH DIM system. Don’t mix different push dim drivers on the same circuit.



TCCI DRIVER

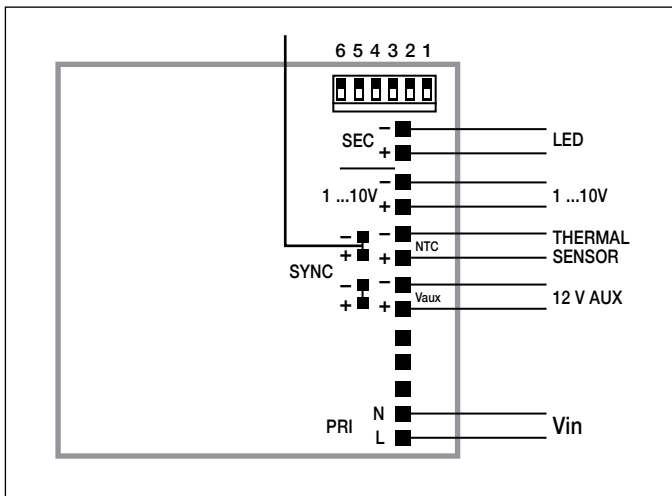
- Additional 1-2 Core Switch wire is required.
- Dimming occurs through the use of a “normally open” type push button switch
- Available in out-puts ranging from 350mA – 1400mA



Dimming Options (continued)

1-10v Dimming

1-10V (Analogue) dimming uses an analogue signal rather than a digital signal. It is a universal protocol, so all 1-10V drivers operate in the same manner. Each downlight requires a standard 2C+E plus two control lines to carry the low voltage signal (polarity sensitive). You will also require a potentiometer (or some other 1-10V dim controller).

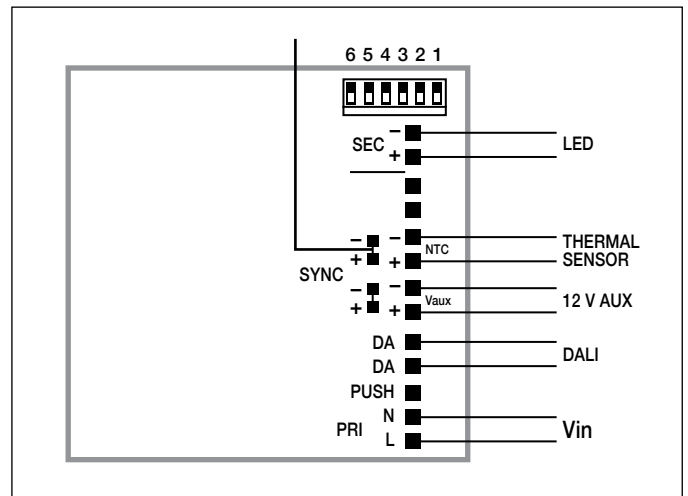


TCI DRIVER

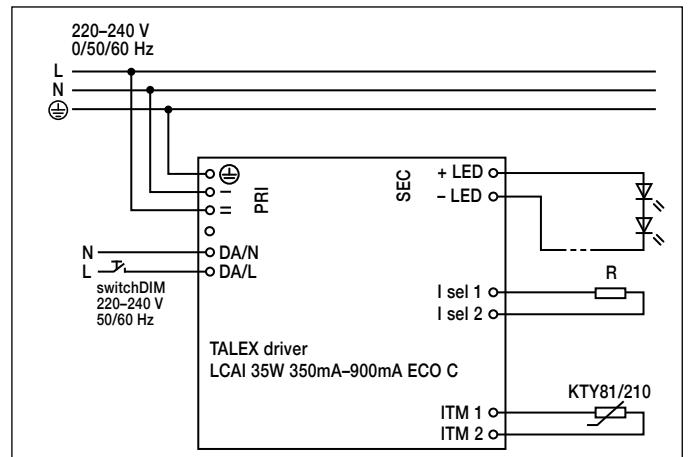
- Additional 2-Core LV control cable is required.
- Dedicated 1-10V interface or potentiometer is required to control this driver
- Available in out-puts ranging from 350mA – 1400mA

DALI

Digital Addressable Lighting Interface – DALI – is a universal protocol (IEC 62386), designed to allow varying manufacturers products to all work on the same system. So it doesn't matter whose light fitting you are using, if it is DALI it will work on a DALI controlled system. Up to 64 light fittings can be controlled per DALI line, buildings can have multiple DALI lines. Wiring to a DALI downlight requires a standard 2C+E, plus two DALI control lines (not polarity sensitive).



TCI DRIVER



TRIDONIC DRIVER

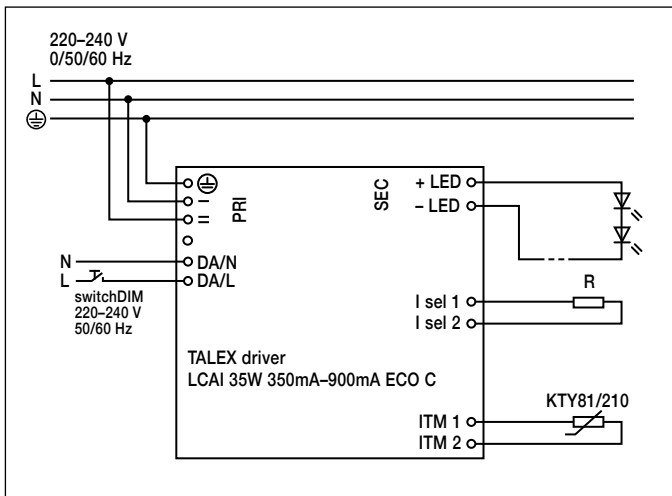
- Additional 2-Core control cable is required.
- Dedicated DALI interface or Control System is required to control this System
- Available in out-puts ranging from 350mA – 1400mA



Dimming Options (continued)

DSI

Digital Serial Interface – DSI – is a proprietary protocol of Tridonic. It was largely the precursor to the DALI system. Unlike DALI each fitting is not addressable, so each circuit must be controlled as a whole in the same manner. Again each downlight requires standard 2C+E plus two DSI control lines (not polarity sensitive).

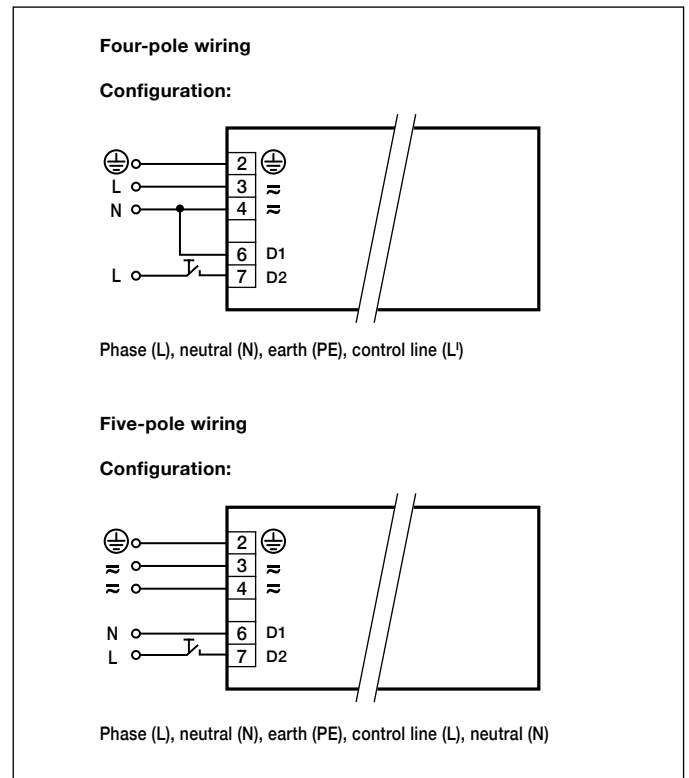


TRIDONIC DRIVER

- Additional 2-Core control cable is required.
- Dedicated Control System is required to control this System
- Available in out-puts ranging from 350mA – 1400mA

SWITCH DIM

switchDIM is a proprietary term of Tridonic's, and essentially allows simple dimming through push button control, No low voltage cables or no digital controllers are required - Each downlight requires a standard 2C+E plus a 1 or 2 Core Switch wire, a “normally open” type push button switch is required to operate a switchDIM system. Don't mix different push dim/switchDIM drivers on the same circuit.



TRIDONIC DRIVER

- Additional 1-2 Core Switch wire is required.
- Dimming occurs through the use of a “normally open” type push button switch
- Available in out-puts ranging from 350mA – 1400mA

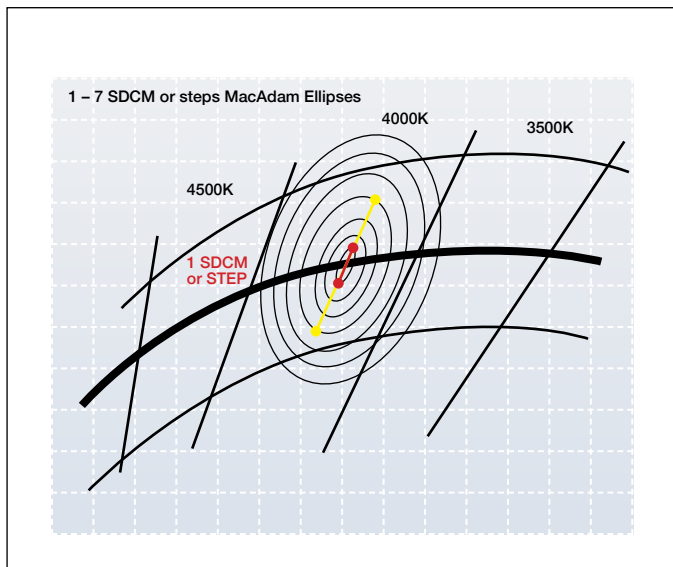


Macadam Steps and CRI

MacAdam Steps

The MacAdam step or Standard Deviation Colour Match (SDCM) refers to an elliptical region centered at a target colour on a chromaticity diagram. The size of the MacAdam step defines the threshold at which colour difference becomes perceivable to the average human eye. **In short, this refers to how easy it is for the human eye to detect colour differences, most commonly variations in white LED's.**

The smaller the SDCM number, the lower the standard deviation, and the harder it is to detect differences. 1-2 MacAdam steps are considered to be indistinguishable to the average human eye from the colour at the centre of the ellipse. 3-4 steps are considered barely distinguishable and **a majority of the population will be able to discern differences in deviations 5 steps and above.**

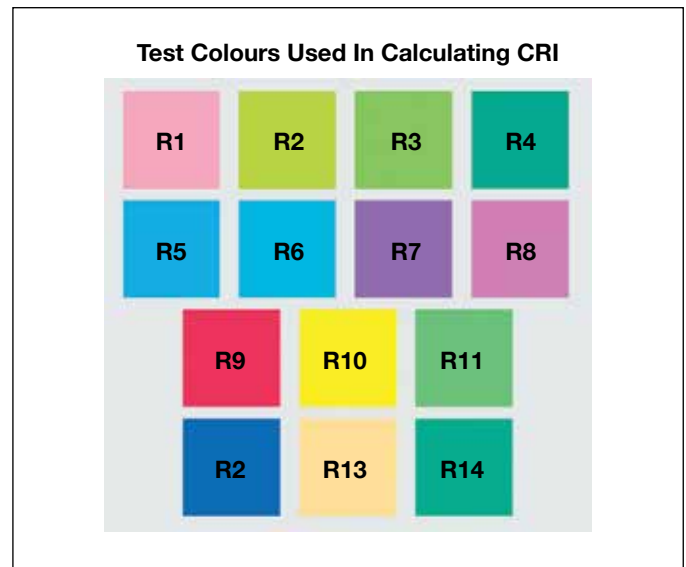


CRI & R9

The Colour Rendition Index (or CRI) is the baseline measurement of how well a light source replicates colours. CRI is Measured on a 1 to 100 index (100 being the best), that represents how well colours are illuminated by a light source when compared with a natural light source.

Most objects are not a single colour, but a combination of many colours, and light sources that are deficient in certain colours may change the appearance of an object. CRI is an average value based on R1 - R8 of the below image.

- Lights with a CRI that is measured greater than 80 are considered to be more than acceptable for most applications.
- Lights with a CRI that is measured greater than 90 is generally considered "High CRI" lights.



R9 is one of 6 saturated test colours not used in calculating CRI. R9 represents the red tones found in natural light sources, and is often well represented in filament sources such as halogen and incandescent. The ability to accurately reproduce Red is critical for accurately rendering colours.



IP and IK Ratings

Understanding the protection levels required in different environments is critical to the longevity and safety of all lighting projects.

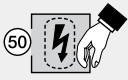
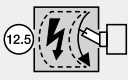
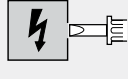
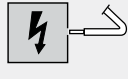


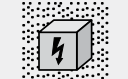

IP RATING:

A two digit number is used to provide an Ingress Protection rating to a piece of electronic equipment or to an enclosure for electronic equipment including luminaires. The two digits represent different forms of environmental influence:


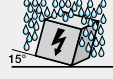

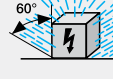



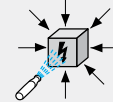

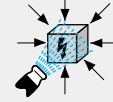
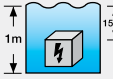



- The first number represents protection against ingress of solid objects, including dust.
- The second number represents protection against ingress of liquids.

The higher the value of each digit, the higher the level of overall protection achieved. For example, a product rated IP65 would be better protected against environmental factors than another similar product rated as IP54.

PROTECTION AGAINST THE INGRESS OF SOLID OBJECTS:

IP No.	Example	Protection against contact and ingress of objects	Tests	Symbol
IP 1X		Protected against solid objects greater than 50mm Ø	A large surface of the body, such as a hand (but no protection against deliberate access). Solid objects exceeding 50mm in diameter.	
IP 2X		Protected against solid objects greater than 12mm Ø	Fingers or similar objects not exceeding 80mm in length. Solid objects exceeding 12mm in diameter.	
IP 3X		Protected against solid objects greater than 2.5mm Ø	Tools, wires, etc., of diameter or thickness greater than 2.5mm. Solid objects exceeding 2.5mm in diameter.	
IP 4X		Protected against solid objects greater than 1.0mm Ø	Wires or strips of thickness greater than 1.0mm. Solid objects exceeding 1.0mm in diameter.	
IP 5X		Dust protected	Ingress of dust is not totally prevented but dust does not enter in sufficient quantity to interfere with satisfactory operation of the equipment.	
IP 6X		Dust tight	No ingress of dust.	

PROTECTION AGAINST THE INGRESS OF LIQUIDS:












IP No.	Example	Protection against contact and ingress of objects	Tests	Symbol
IP X1		Protected against dripping water	Dripping water (vertically falling drops) shall have no harmful effect.	
IP X2		Protected against dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the enclosure is tilted at any angle up to 15° from its normal position.	
IP X3		Protected against spraying water	Water falling as a spray at an angle up to 60° from the vertical shall have no harmful effect.	
IP X4		Protected against splashing water	Water splashed against the enclosure from any direction shall have no harmful effect.	
IP X5		Protected against water jets	Water projected by a nozzle against the enclosure from any direction shall have no harmful effect.	
IP X6		Protected against heavy seas	Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities.	
IP X7		Protected against the effects of immersion	Ingress of water in a harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time.	
IP X8		Protected against submersion	The equipment is suitable for continuous submersion in water under conditions which shall be specified by the manufacturer. NOTE: Normally, this will mean that the equipment is hermetically sealed. However, with certain types of equipment, it can mean that water can enter but only in such a manner that it produces no harmful effects.	

IP and IK Ratings (continued)

IK RATING:

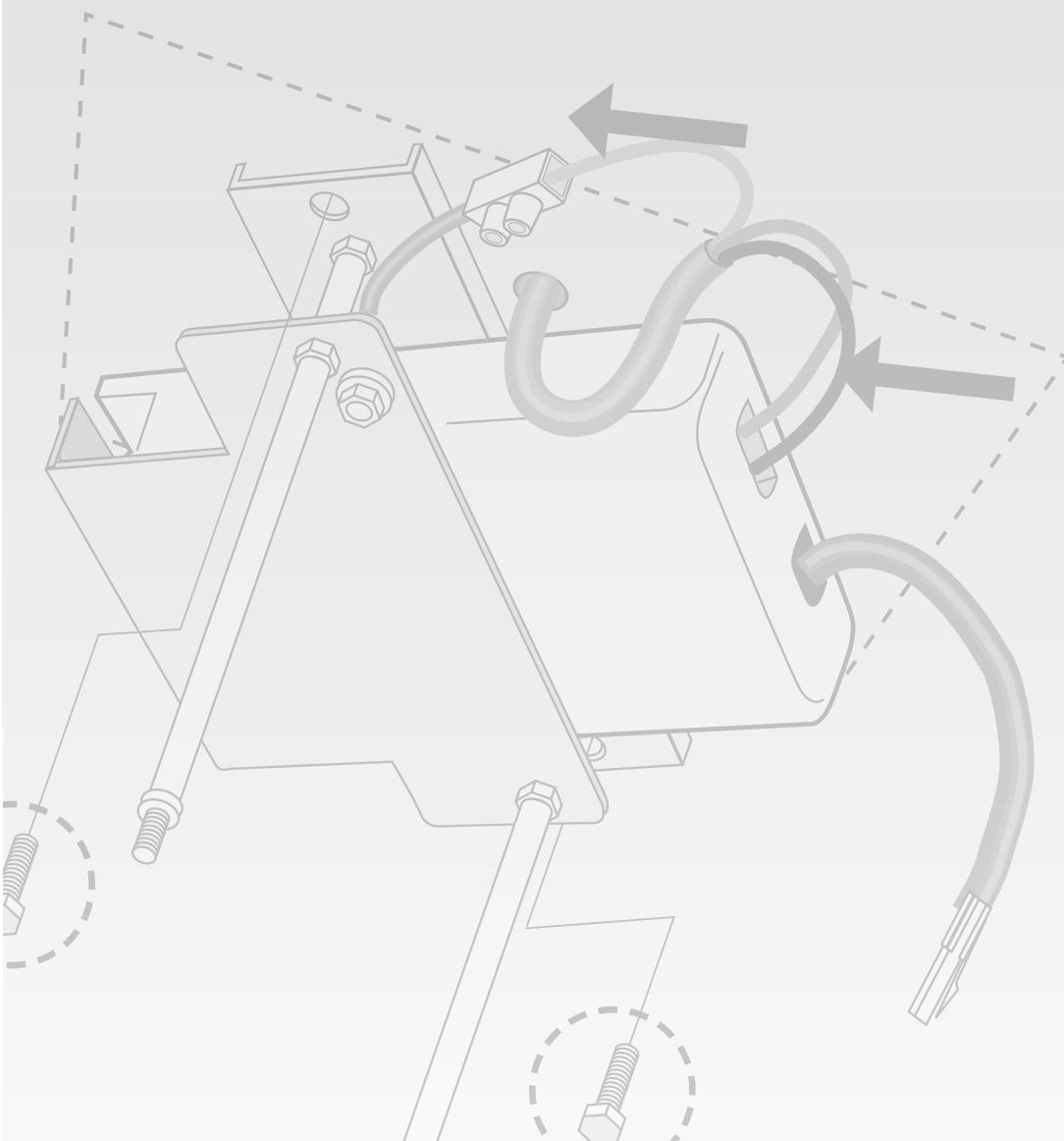
IK rating system is an International classification showing degrees of protection provided by luminaires against external mechanical impacts.

IK ratings are presented as an IK XX rating, where “XX” is a number from 00 – 10 indicating the degree of protection provided by enclosures against external impacts. The different IK ratings relate to the ability of an enclosure to resist impact energy – Joules (J). the higher the rating the higher the level of protection

Number	Measure of protection – impact energy (joules)	Test
	No protection to this standard –	
	0.15	0.20 kg impact
	0.20	0.20 kg impact
	0.35	0.20 kg impact
	0.50	0.20 kg impact
	0.70	0.20 kg impact
	1.00	0.50 kg impact from 200mm
	2.00	0.50 kg impact from 400mm
	5.00	1.70 kg impact from 295mm
	10.00	5.00 kg impact from 200mm
	20.00	5.00 kg impact from 400mm



Installation Instructions



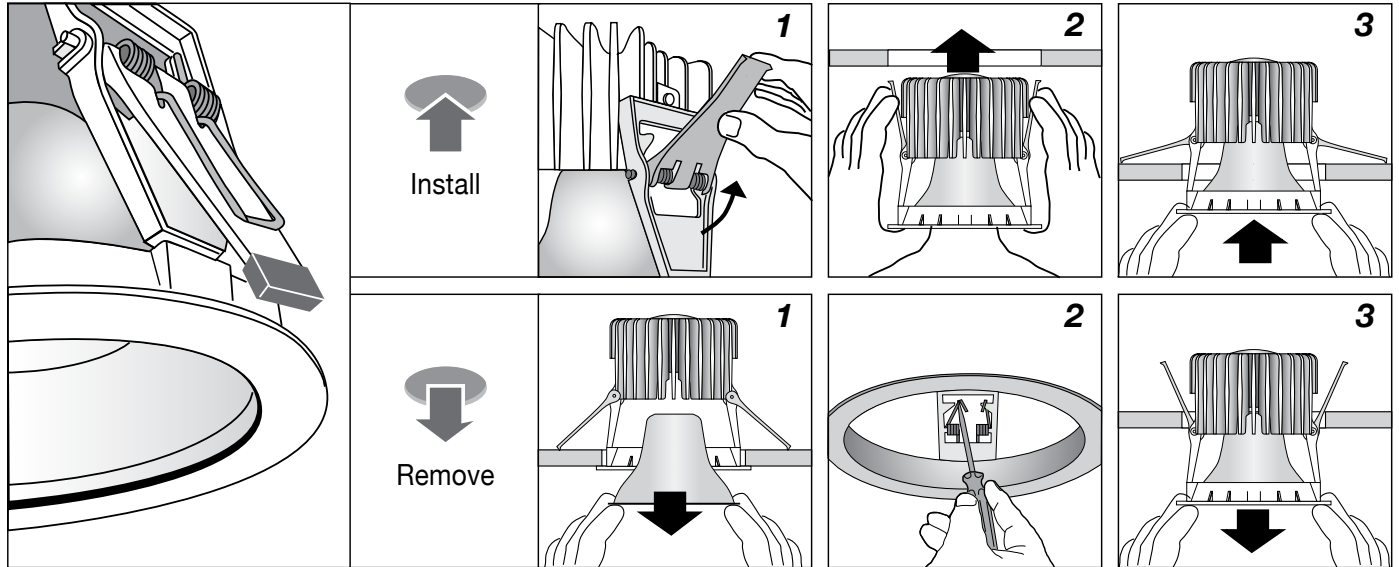
DOT Downlights INSTALLATION INSTRUCTIONS



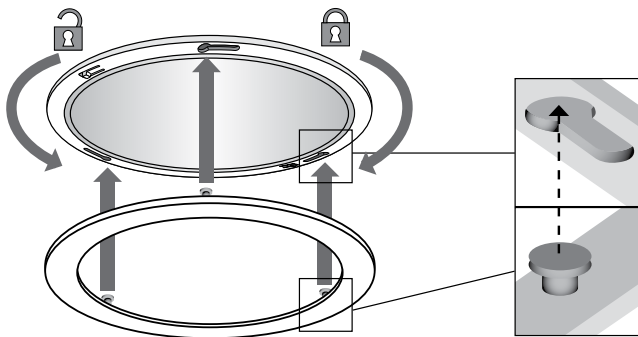
LED Series Downlights

IP 20 CE

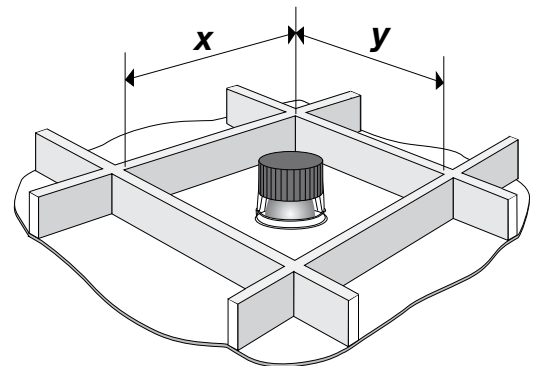
DOT **LED**



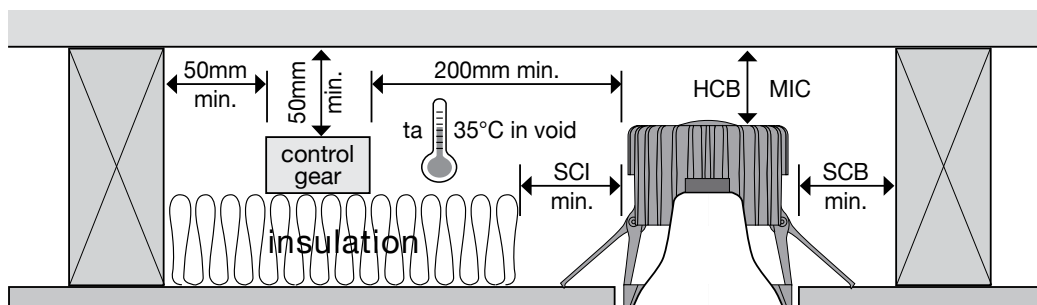
Accessories



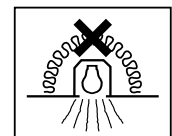
$x \times y = 0.25 \text{ M}^2 \text{ min.}$



Building Element Clearances



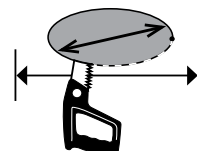
Luminaire not suitable for covering with thermally insulated material.



Note: Remote Control Gear must not be covered by insulation.

For Specific Driver Details Refer:

- TRIDONIC = www.tridonic.com
- DIGINET = www.dignet.net.au
- TCl = www.tcisaronno.com



For HCB, SCB and SCI dimensions – refer overleaf.

HCB = Minimum Height Clearance Building Element

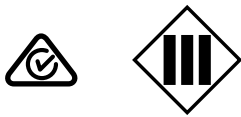
SCB = Minimum Side Clearance Building Element

SCI = Minimum Side Clearance Insulation

MIC = Minimum Insulation Clearance

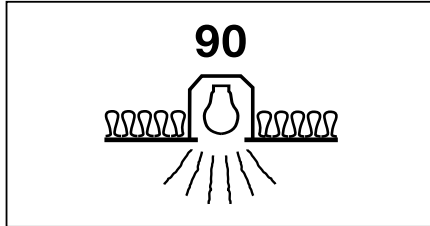
DOT LED Series INSTALLATION INSTRUCTIONS

ROHS Compliant
Supply Voltage: 220/240V 50Hz AC



CLASSIFICATIONS
FOR INDOOR USE ONLY

CA90 LUMINAIRES



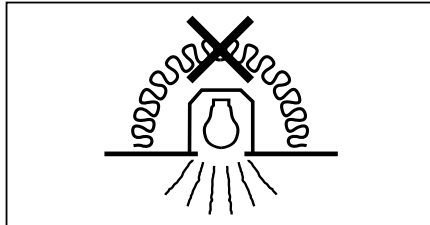
Risk of fire – Building insulation must not cover this luminaire.

Building insulation may abut the luminaire.

Required clearance from structural members and building elements.

HCB = 50mm SCB = 50mm
MIC = 50mm SCI = 0mm (Abutted)

DO NOT COVER LUMINAIRES



Risk of fire – Building insulation must not cover this luminaire.

Required clearance from structural members and building elements.

HCB = 50mm SCB = 50mm
SCI = 50mm

WARNING (New Zealand Only)

This luminaire is not suitable for installation in locations where the thermal insulation is present, or may reasonably be expected to be installed in the future, or where there is a likelihood of other combustible material, e.g. leaves or vermin debris, etc. collecting on or around the luminaire. It is not suitable for domestic installations or installation in residential areas of non-domestic installations (Residential institutions, Hotels, boarding houses, hospitals, accommodation houses, motels, hostels and the like.

	Wattage								ASNZS 60598.2.2 :2016
	Excel XL	Performance P	Colour C	Base B		kg			

Recessed Downlight – Round

DOT 9124/8	10.0	9.8	–	–	92	0.7	0.10	IP 20	CA90
DOT 9134/8	14.0	13.9	–	15.1	92	0.7	0.10	IP 20	CA90
DOT 9154/8	21.0	20.3	–	21.7	92	0.7	0.10	IP 20	CA90
DOT 9724/8	10.1	10.3	–	–	140	1.1	0.25	IP20	CA90
DOT 9734/8	13.8	13.6	–	14.3	140	1.1	0.25	IP20	CA90
DOT 9754/8	19.2	19.4	–	–	140	1.1	0.25	IP20	CA90
DOT 9774/8	27.1	26.9	–	30.0	140	1.1	0.25	IP20	CA90
DOT 9794/8	34.9	34.6	–	–	140	1.1	0.25	IP20	CA90
DOT 97104/8	40.3	40.5	–	43.0	140	1.1	0.25	IP20	Do not cover
DOT 97144/8	55.1	56.0	–	–	140	1.1	0.25	IP20	
DOT 9934/8	13.5	13.5	–	–	175	1.4	0.28	IP20	CA90
DOT 9954/8	19.0	19.0	–	–	175	1.4	0.28	IP20	CA90
DOT 9974/8	27.1	27.1	–	–	175	1.4	0.28	IP20	CA90
DOT 9994/8	33.6	33.6	–	–	175	1.4	0.28	IP20	CA90
DOT 99104/8	38.9	38.9	–	–	175	1.4	0.28	IP20	CA90
DOT 99144/8	53.5	53.5	–	–	175	1.4	0.28	IP20	CA90
DOT 99174/8	68.1	68.1	–	–	175	1.4	0.28	IP20	CA90

Recessed Downlight – Square

DOT 9438	–	15.2	15.2	–	102x102	0.7	0.19	IP 20	CA90
DOT 9458	–	21.8	21.7	–	102x102	0.7	0.19	IP 20	CA90
DOT 9828	–	10.3	10.3	–	146x146	1.0	0.19	IP 20	CA90
DOT 9838	–	13.8	13.8	–	146x146	1.0	0.19	IP 20	CA90
DOT 9858	–	19.4	19.4	–	146x146	1.0	0.19	IP 20	CA90
DOT 9878	–	26.9	26.9	–	146x146	1.0	0.19	IP 20	CA90
DOT 9898	–	34.6	34.6	–	146x146	1.0	0.19	IP 20	CA90
DOT 98108	–	40.5	40.5	–	146x146	1.0	0.19	IP 20	CA90
DOT 98148	–	56.0	56.0	–	146x146	1.0	0.19	IP 20	CA90

TrimLess Downlight

DOT 9134TL/8	–	15.1	–	–	155x155	1.3	0.10	IP 20	CA90
DOT 9154TL/8	–	21.7	–	–	155x155	1.4	0.10	IP 20	CA90

Wallwasher Downlight

DOT 9938W	–	14.0	–	–	175	1.4	0.28	IP20	CA90
DOT 9958W	–	19.3	–	–	175	1.4	0.28	IP20	CA90
DOT 9978W	–	27.2	–	–	175	1.4	0.28	IP20	CA90
DOT 99108W	–	41.0	–	–	175	1.4	0.28	IP20	CA90

Surface Mounted Downlight – Round

DOT 9124SM/8	10.0	9.8	–	–	–	0.8	–	IP 20	N/A
DOT 9134SM/8	14.0	13.9	–	15.1	–	0.8	–	IP 20	N/A
DOT 9154SM/8	21.0	20.3	–	21.7	–	0.8	–	IP 20	N/A
DOT 9724SM/8	–	–	–	10.0	–	1.6	–	IP20	N/A
DOT 9734SM/8	13.8	13.6	–	14.3	–	1.6	–	IP20	N/A
DOT 9754SM/8	19.2	19.4	–	–	–	1.6	–	IP20	N/A
DOT 9774SM/8	27.1	26.9	–	30.0	–	1.6	–	IP20	N/A
DOT 9794SM/8	34.9	34.6	–	–	–	1.6	–	IP20	N/A
DOT 9934SM/8	13.5	13.5	–	–	–	1.7	–	IP20	N/A
DOT 9954SM/8	19.0	19.0	–	–	–	1.7	–	IP20	N/A
DOT 9974SM/8	27.1	27.1	–	–	–	1.7	–	IP20	N/A
DOT 9994SM/8	33.6	33.6	–	–	–	1.7	–	IP20	N/A
DOT 99104SM/8	38.9	38.9	–	–	–	1.7	–	IP20	N/A

Surface Mounted Downlight – Square

DOT 9438SM	–	15.2	15.2	–	–	1.4	–	IP 20	N/A
DOT 9838SM	–	13.8	13.8	–	–	1.6	–	IP 20	N/A
DOT 9858SM	–	19.4	19.4	–	–	1.6	–	IP 20	N/A
DOT 9878SM	–	26.9	26.9	–	–	1.6	–	IP 20	N/A
DOT 9898SM	–	34.6	34.6	–	–	1.6	–	IP 20	N/A

Suspended Downlight

DOT 9124S/8	10.0	9.8	–	–	–	0.8	–	IP 20	N/A
DOT 9134S/8	14.0	13.9	–	–	–	0.8	–	IP 20	N/A
DOT 9154S/8	21.0	20.3	–	–	–	0.8	–	IP 20	N/A
DOT 9724S/8	–	–	–	–	–	1.6	–	IP20	N/A
DOT 9734S/8	13.8	13.6	–	–	–	1.6	–	IP20	N/A
DOT 9754S/8	19.2	19.4	–	–	–	1.6	–	IP20	N/A
DOT 9774S/8	27.1	26.9	–	–	–	1.6	–	IP20	N/A
DOT 9794S/8	34.9	34.6	–	–	–	1.6	–	IP20	N/A
DOT 9934S/8	13.5	13.5	–	–	–	1.7	–	IP20	N/A
DOT 9954S/8	19.0	19.0	–	–	–	1.7	–	IP20	N/A
DOT 9974S/8	27.1	27.1	–	–	–	1.7	–	IP20	N/A
DOT 9994S/8	33.6	33.6	–	–	–	1.7	–	IP20	N/A
DOT 99104S/8	38.9	38.9	–	–	–	1.7	–	IP20	N/A

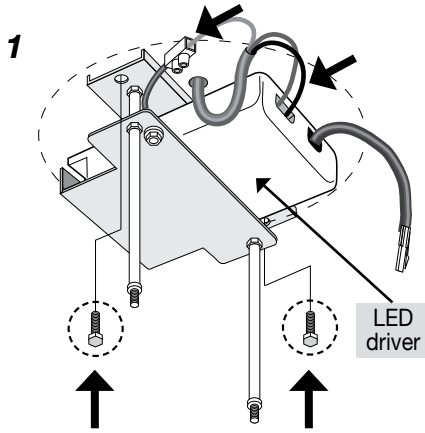
DOT 9100SM Series – Surface Mounted Downlights
DOT 9700SM Series – Surface Mounted Downlights
DOT 9900SM Series – Surface Mounted Downlights



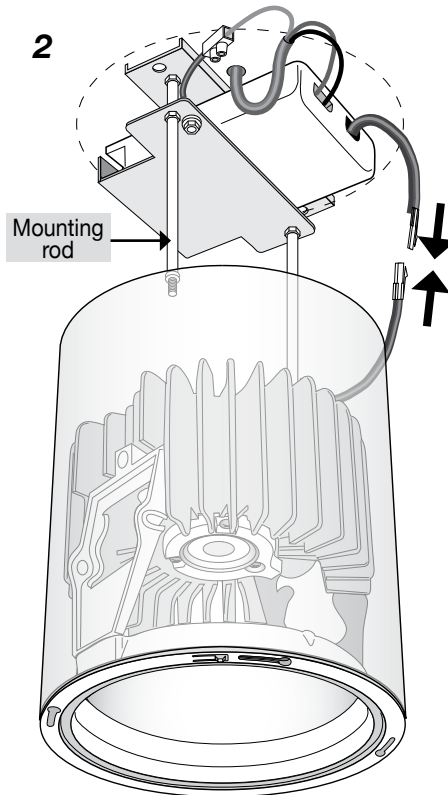
IP 20

Complies with IEC60598
 Complies with AS/NZS60598
 RoHS compliant

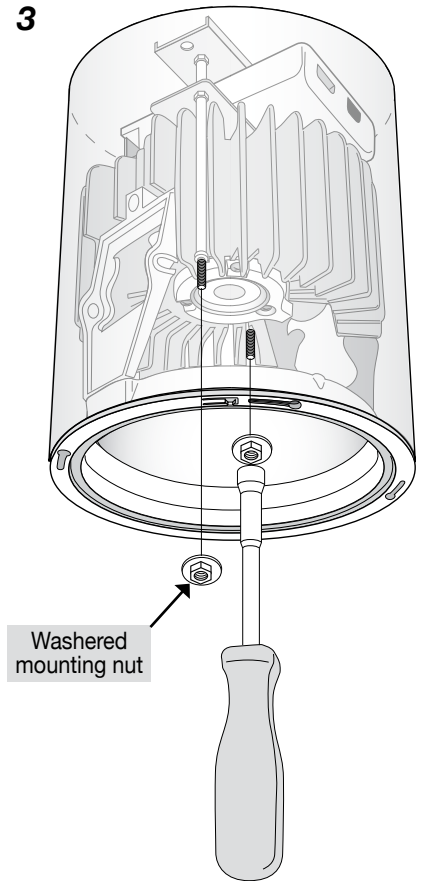
– Supply voltage 220-240V 50 HZ – Suitable for indoor use only – Min. distance from building element = 0.1M



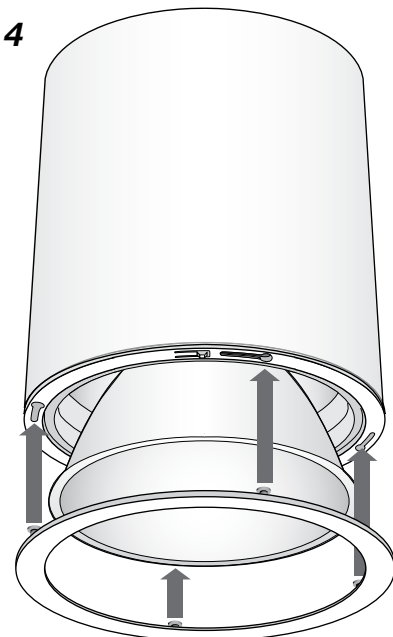
- Fix bracket assembly to mounting surface
- Connect mains cable to driver and connect earth



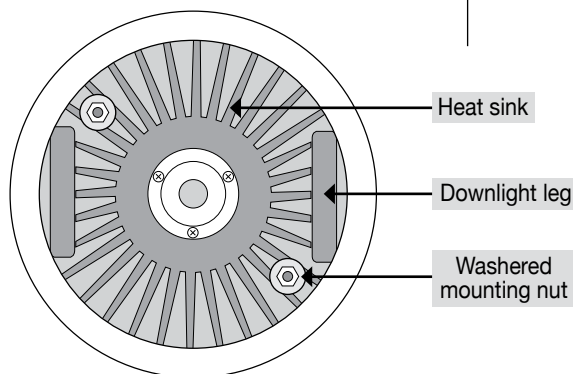
- Connect downlight cable to driver secondary cable
- Insert mounting rods between heat sink fins closest to downlight legs



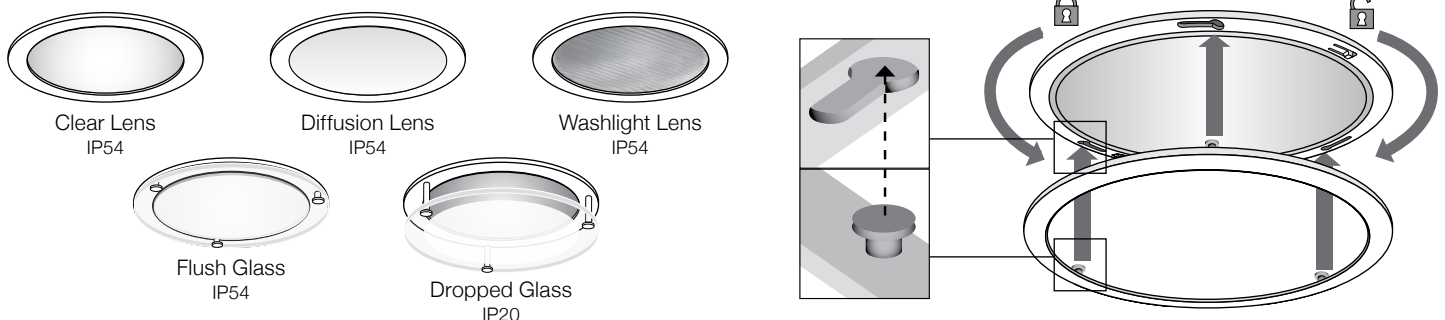
- Secure luminaire with washed mounting nuts (tool supplied).
 Caution – do not over tighten



- Replace reflector
- Replace AXLock Ceiling Plate / Accessory



AXLock Accessories – Installation





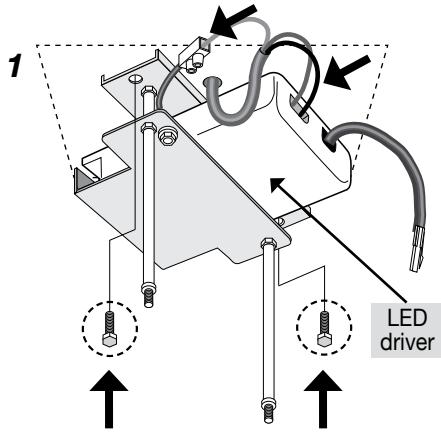
DOT 9400SM & 9800SM Series Surface Mounted Downlights

IP 20 CE

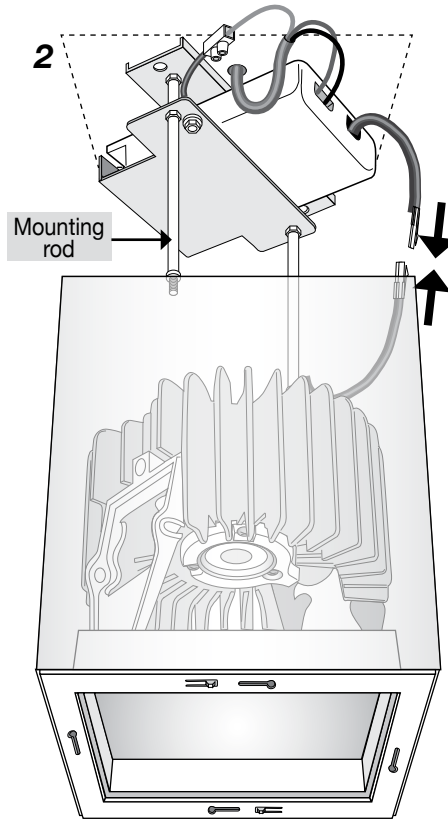
Model Numbers – DOT 9438SMC | DOT 9838SMC | DOT 9858SMC | DOT 9878SMC | DOT 9898SMC
 DOT 9438SMP | DOT 9838SMP | DOT 9858SMP | DOT 9878SMP | DOT 9898SMP

Complies with IEC60598
 Complies with AS/NZS60598
 RoHS compliant

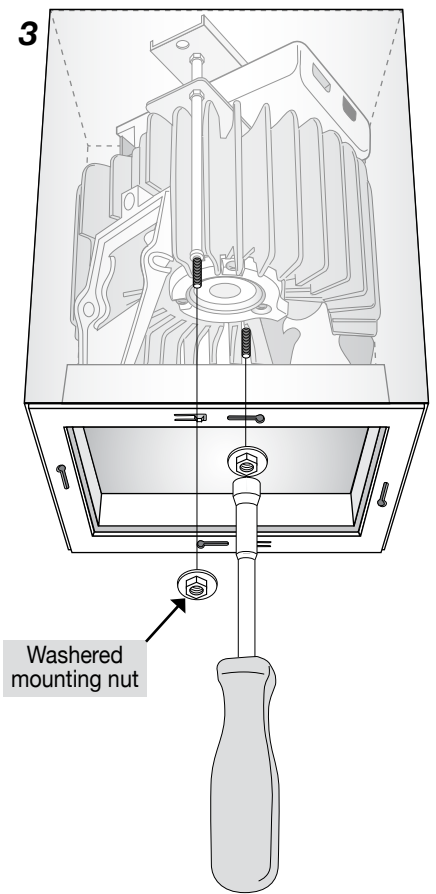
– Supply voltage 220-240V 50 HZ – Suitable for indoor use only – Min. distance from building element = 0.1M



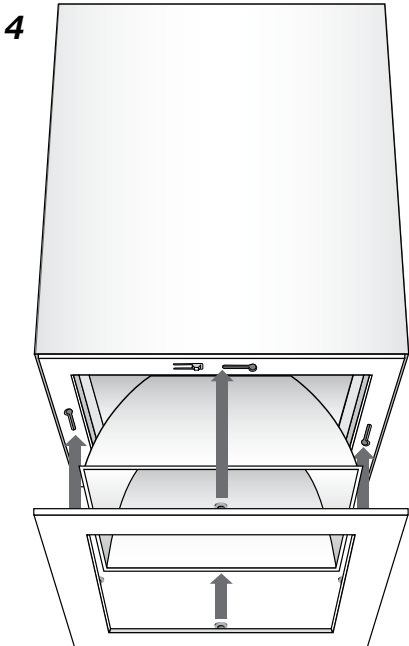
- Fix bracket assembly to mounting surface
- Connect mains cable to driver and connect earth



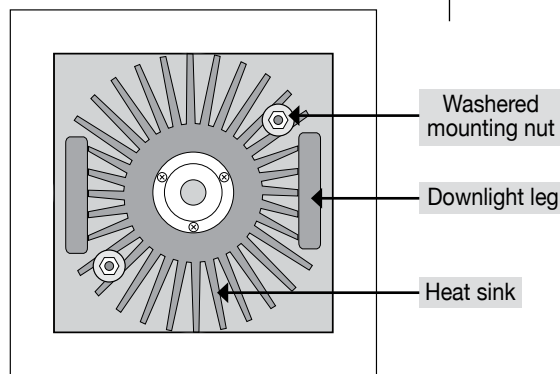
- Connect downlight cable to driver secondary cable
- Insert mounting rods between heat sink fins closest to downlight legs



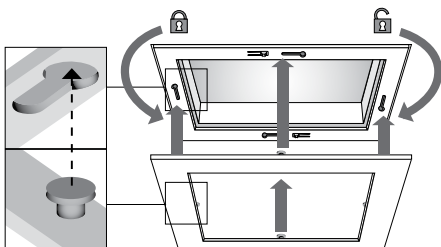
- Secure luminaire with washed mounting nuts (tool supplied).
 Caution – do not over tighten



- Replace reflector
- Replace AXLock Ceiling Plate / Accessory



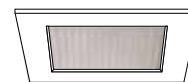
AXLock Accessories – Installation



A942-CL IP54
Clear Lens



A942-DL IP54
Soft Diffusion Lens



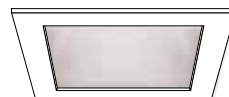
A944 IP54
Washlight Lens



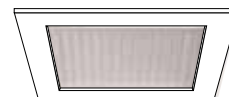
A945-FG IP54
Flush Glass



A982-CL IP54
Clear Lens



A982-DL IP54
Soft Diffusion Lens



A984 IP54
Washlight Lens



A985-FG IP54
Flush Glass

DOT Downlights INSTALLATION INSTRUCTIONS

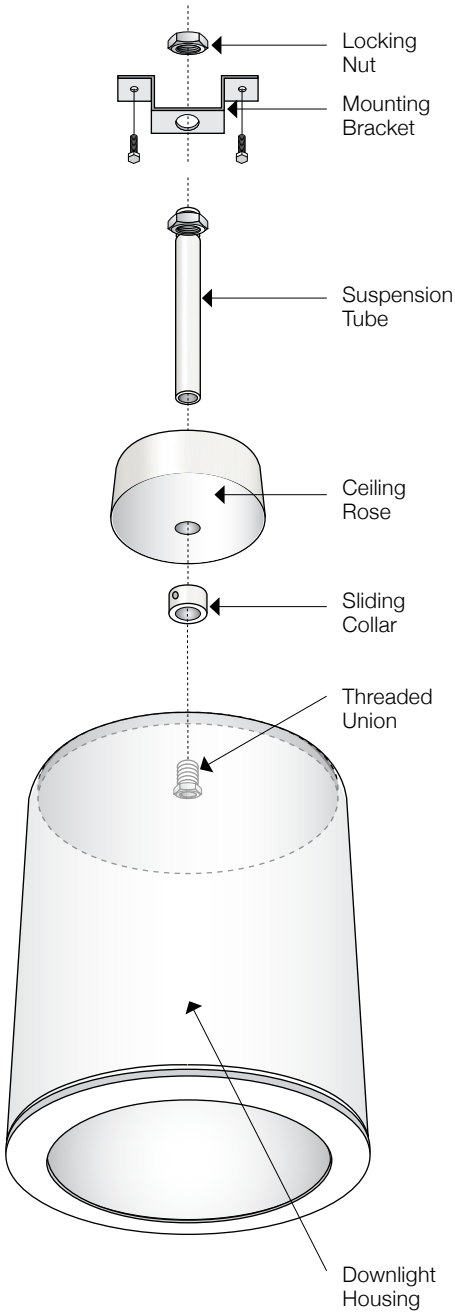
DOT 9700S Series – Suspended Mounting Tube Downlights
DOT 9900S Series – Suspended Mounting Tube Downlights



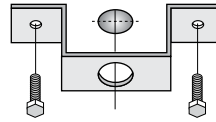
Complies with IEC60598
 Complies with AS/NZS60598
 RoHS compliant

– Supply voltage 220-240V 50 HZ

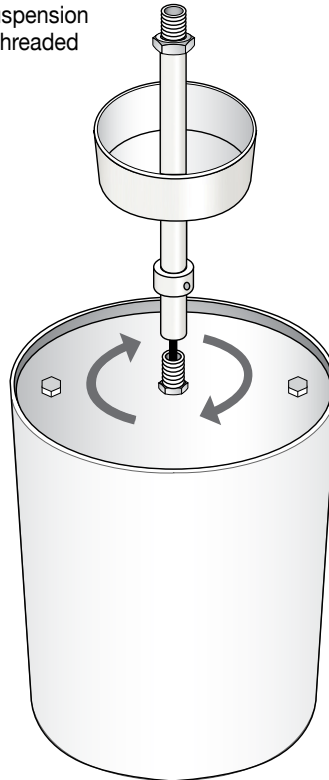
Components



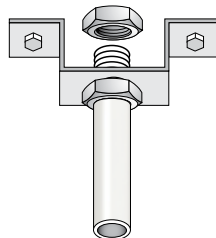
1 Fix Mounting Bracket to ceiling.



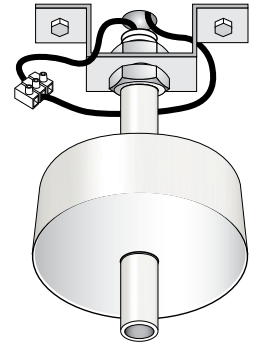
2 Screw Suspension Tube to Threaded Union.



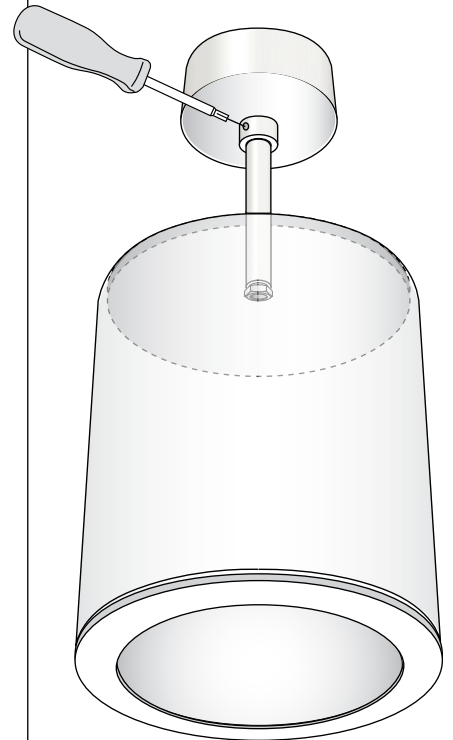
3 Fix Suspension Tube to Mounting Bracket.



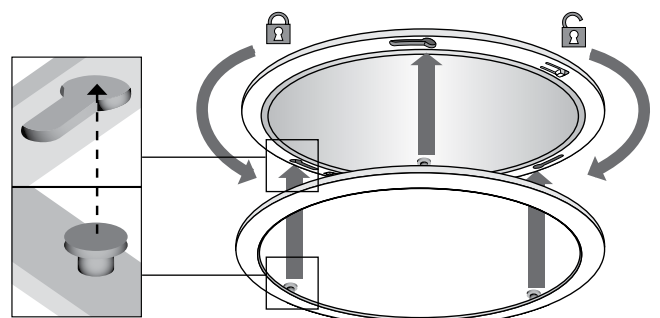
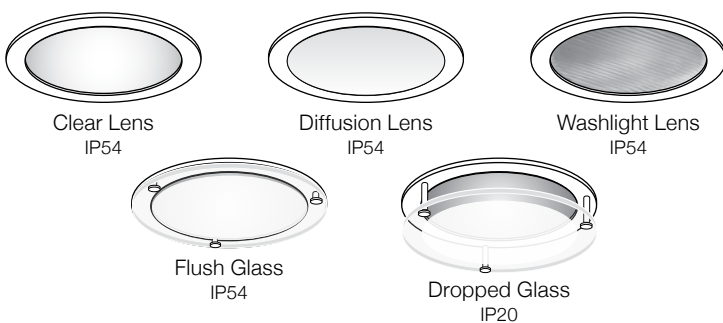
4 Connect to power supply.



5 Secure Ceiling Rose with Sliding Collar.



AXLock Accessories – Installation





NEW ZEALAND

Nimbus Lighting Group
180 Station Rd, Penrose, Auckland 1642
09 579 2162
0800 4 NIMBUS
www.dotdownlights.co.nz

Electrical Wholesalers:

- Active Electrical Suppliers Ltd
- Advance Electrical Wholesalers
- Corys Electrical
- Ideal Electrical
- IES Canterbury
- J.A. Russell Ltd
- Pro Active Electrical Suppliers
- Radcliffe Electrical
- Redpaths
- Scott Electrical
- Simpson Electrical Merchants
- Stewarts Electrical Supplies
- Telfers

AUSTRALIA

Freephone 1300 799 300
Alternatively, direct numbers for each region are listed below.

Please use these numbers if calling from a mobile.

NSW
02 9794 9393
lightingnsw@pierlite.com.au

QLD
07 3621 9200
lightingqld@pierlite.com.au

VIC / TAS
03 9394 3100
lightingvic@pierlite.com.au

SA / NT
08 8122 2360
lightingsa@pierlite.com.au

WA
08 9209 7100
lightingwa@pierlite.com.au

PHILIPINES
Stealth Ventures Corperation
stealthventures@gmail.com

SINGAPORE
Strongly Lighting Pte Ltd
enquiries@stronlite.com.sg

THAILAND
Lighting & Equipment Public Company
apm621@lighting.co.th

UNITED KINGDOM
Spurlite Limited
sales@spurlite.co.uk



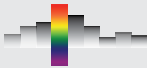
EXCEL



PERFORMANCE



COLOUR



BASE



DOT LED

www.dotdownlights.com



5 YEAR WARRANTY

www.dotdownlights.com/warranty.htm

Complies with IEC60598

Complies with AS/NZS60598

RoHS compliant



Fully Protected by Intellectual Property Rights,
Patents, Registered Designs and Copyright.

Member of:



Member of:



