

Precision engineered downlights

A family of recessed LED downlights which deliver up to 7752 lumens thanks to the thermal efficiency of their machined aluminium heatsinks. Each model is equipped with our high-CRI (Ra) (90 or 97) LED emitters and optics for high saturation white light and perfectly uniform beams across the near and far fields. Each model is available with white, black or custom primary colour options in either recessed, or yoke mount to best suit each installation.

Key features

- Outputs up to 8434 lm*.
- Efficacy up to 101lm/W*.
- External constant current drivers required.
- Machined aluminium heatsinks.
- Choice of colour finishes: Black, white or custom RAL colours on request.
- CE compliant

Please see:

- Page 2 for light output table.
- Page 7 for order options.

*8K model @ 3000K FTW, 40°, 90 CRI

*2K model @ 4000K, 40°, 90 CRI

Puppis 4K
(Page 5)

Puppis 8K
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Puppis 2K
(Page 4)

Puppis 1K
(Page 3)

Light output table

Model	Power input	CCT	Beam angle	90 CRI		97 CRI	
				Output (lm)	Efficacy (lm/W)	Output (lm)	Efficacy (lm/W)
Puppis 1K	12W	2700K	24°	1025	85.42	918	76.51
•	•	•	40°	1019	84.92	912	76.04
•	•	3000K	24°	1035	86.25	954	79.50
•	•	•	40°	1059	88.25	948	79.02
•	•	3000K FTW	24°	1030	85.83	-	-
•	•	•	40°	1050	87.50	-	-
•	•	4000K	24°	1035	86.25	977	81.41
•	•	•	40°	1059	88.25	971	80.91
Puppis 2K	22W	2700K	15°	1969	89.50	1775	80.69
•	•	•	24°	1926	87.55	1736	78.90
•	•	•	40°	1938	88.09	1746	79.34
•	•	3000K	15°	1780	80.91	1845	83.86
•	•	•	24°	2059	93.59	1804	82.00
•	•	•	40°	2035	92.50	1814	82.46
•	•	3000K FTW	15°	1975	89.77	-	-
•	•	•	24°	1935	87.95	-	-
•	•	•	40°	1999	90.85	-	-
•	•	4000K	15°	2197	99.86	1891	85.95
•	•	•	24°	2153	97.86	1849	84.04
•	•	•	40°	2224	101.09	1859	84.52
Puppis 4K	55W	2700K	15°	4361	79.29	3945	71.72
•	•	•	24°	4255	77.36	3847	69.95
•	•	•	40°	4303	78.25	3893	70.78
•	•	3000K	15°	4646	84.47	4103	74.60
•	•	•	24°	4556	82.84	3881	70.56
•	•	•	40°	4588	83.42	4049	73.62
•	44W	3000K FTW	15°	3858	87.68	-	-
•	•	•	24°	3781	85.93	-	-
•	•	•	40°	3916	89.00	-	-
•	55W	4000K	15°	4976	90.47	4206	76.47
•	•	•	24°	4751	86.38	4102	74.58
•	•	•	40°	4858	88.33	4151	75.47
Puppis 8K	90W	2700K	15°	6782	75.36	6570	73.00
•	•	•	24°	6538	72.64	6334	70.38
•	•	•	40°	6586	73.18	6381	70.90
•	•	3000K	15°	7214	80.16	6408	71.20
•	•	•	24°	6538	72.64	6179	68.65
•	•	•	40°	7119	79.10	6225	69.16
•	100W	3000K FTW	15°	8350	83.50	-	-
•	•	•	24°	8099	80.99	-	-
•	•	•	40°	8434	84.34	-	-
•	90W	4000K	15°	7645	84.94	6570	73.00
•	•	•	24°	7437	82.63	6334	73.00
•	•	•	40°	7752	86.13	6381	70.90

Puppis 1K

Specifications

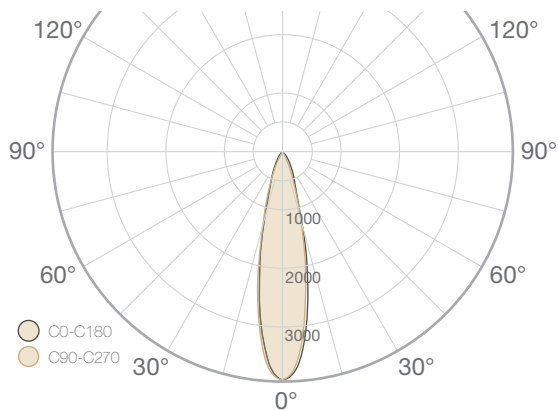
Output:	Up to 1059 lm (@4000K, 40°, 90CRI)
CCT:	2700K, 3000K, 4000K or 3000K FTW
Beam widths:	24 or 40 degrees
Input power:	12W
LED Vf/drive current:	34-36VDC, 300-350mA 18-20VDC, 600-650mA (Option)
Efficacy:	Up to 88.25 lm/W (@4000K, 40°, 90CRI)
CRI (Ra):	90 or 97
SDCM:	3-step MacAdam ellipse
UGR:	<19
Lifetime:	50,000 hours (L ₈₀ B ₂₀)
IP rating:	IP20
Driver options:	Non-Dim, Mains Dim, DALI, DMX
Warranty:	5 years
Body finish:	White, black or custom



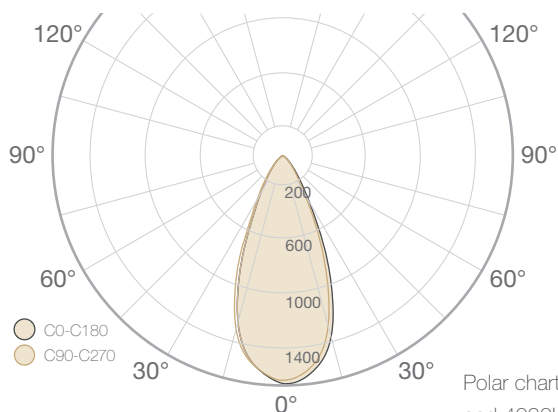
Polar charts (@3000K)

Dimensions

Puppis 1K 24°

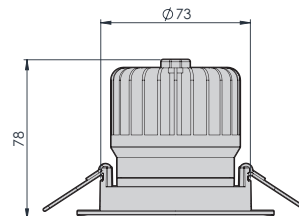


Puppis 1K 40°

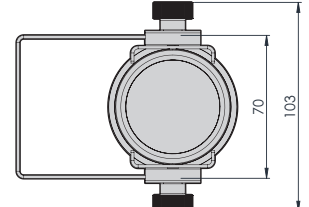
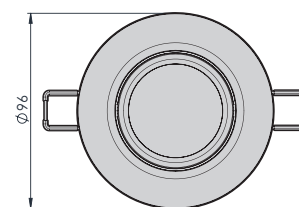
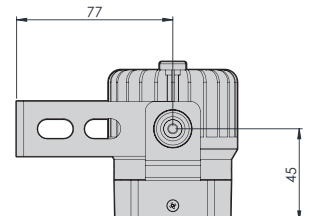


Polar charts for 2700K and 4000K available on request

Recessed



Yoke



Hole Cut-Out



Minimum - 75mm
Recommended - 80mm
Maximum - 86mm

Puppis 2K

Specifications

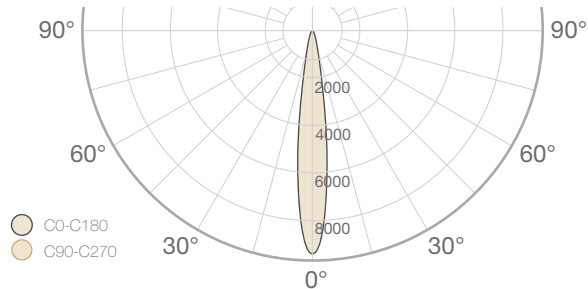
Output:	Up to 2224 lm (@4000K, 40°, 90CRI)
CCT:	2700K, 3000K, 4000K or 3000K FTW
Beam widths:	15, 24 or 40 degrees
Input power:	22W
LED Vf/drive current:	34-36VDC, 550-600mA
Efficacy:	Up to 101 lm/W (@4000K, 40°, 90CRI)
CRI (Ra):	90 or 97
SDCM:	3-step MacAdam ellipse
UGR:	<19
Lifetime:	50,000 hours (L ₈₀ B ₂₀)
IP rating:	IP20
Driver options:	Non-Dim, Mains Dim, DALI, DMX
Warranty:	5 years
Body finish:	White, black or custom



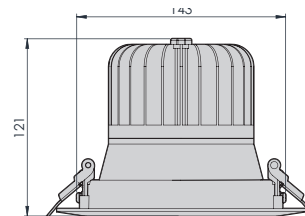
Polar charts (@3000K)

Dimensions

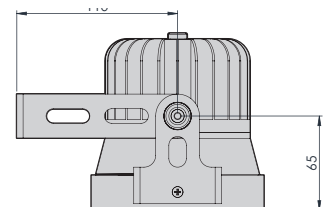
Puppis 2K 15°



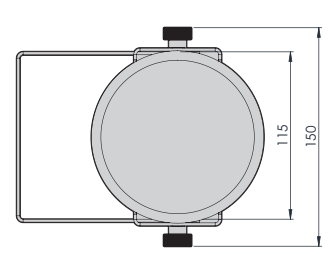
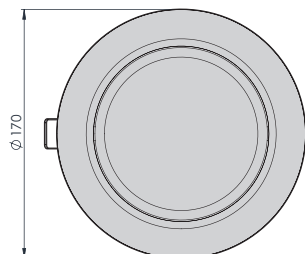
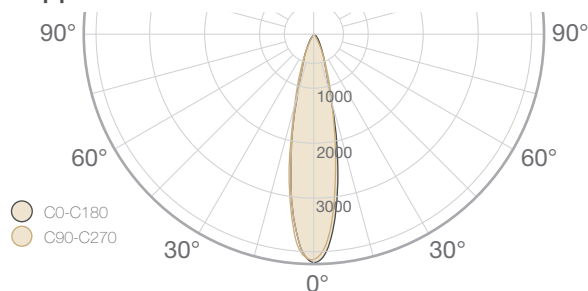
Recessed



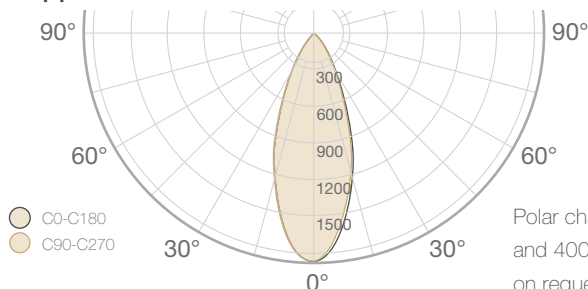
Yoke



Puppis 2K 24°



Puppis 2K 40°



Hole Cut-Out



Minimum - 145mm
Recommended - 150mm
Maximum - 160mm

Polar charts for 2700K
and 4000K available
on request

Puppis 4K

Specifications

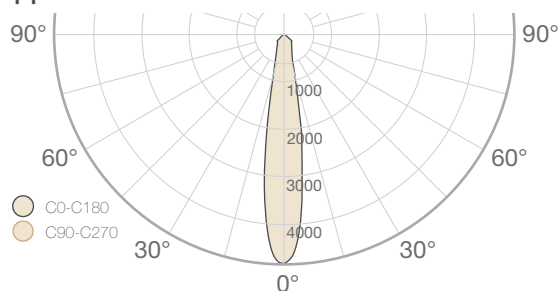
Output:	Up to 4976 lm (@4000K, 15°, 90CRI)
CCT:	2700K, 3000K, 4000K or 3000K FTW
Beam widths:	15, 24 or 40 degrees
Input power:	55W, 44W (FTW)
LED Vf/drive current:	34-36VDC, 1300-1400mA
Efficacy:	Up to 90 lm/W (@4000K, 15°, 90CRI)
CRI (Ra):	90 or 97
SDCM:	3-step MacAdam ellipse
UGR:	<19
Lifetime:	50,000 hours (L ₈₀ B ₂₀)
IP rating:	IP20
Driver options:	Non-Dim, Mains Dim, DALI, DMX
Warranty:	5 years
Body finish:	White, black or custom



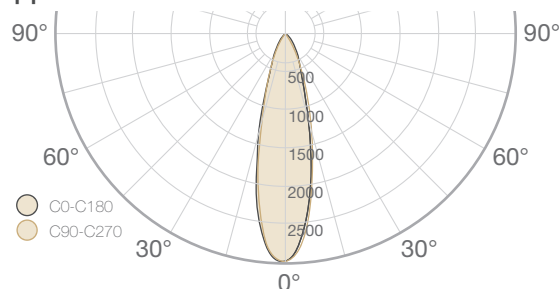
Polar charts (@3000K)

Dimensions

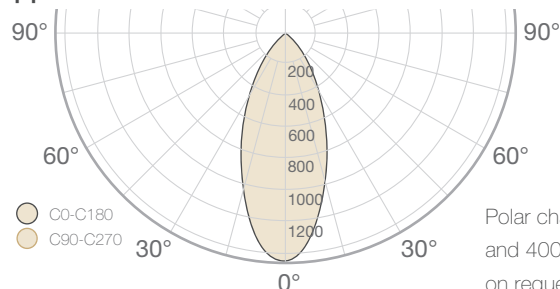
Puppis 4K 15°



Puppis 4K 24°

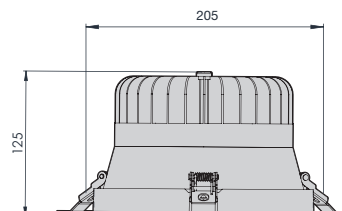


Puppis 4K 40°

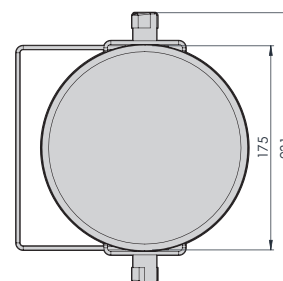
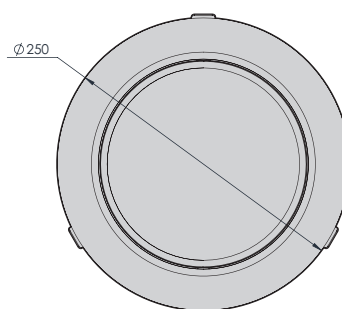
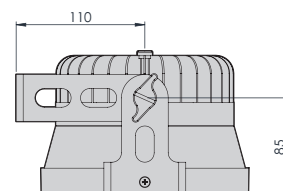


Polar charts for 2700K
and 4000K available
on request

Recessed



Yoke



Hole Cut-Out



Minimum - 205mm
Recommended - 210mm
Maximum - 240mm

Puppis 8K

Specifications

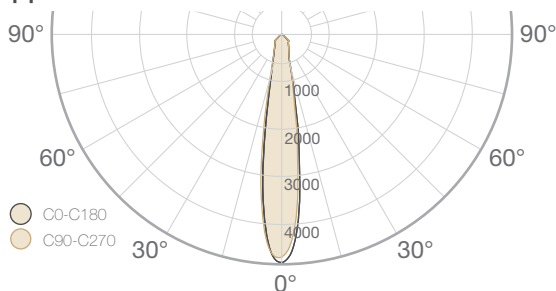
Output:	Up to 7752 lm (@4000K, 40°, 90CRI)
CCT:	2700K, 3000K, 4000K or 3000K FTW
Beam widths:	15, 24 or 40 degrees
Input power:	90W
LED Vf/drive current:	34-36VDC, 2200-2300mA
Efficacy:	Up to 86 lm/W (@4000K, 40°, 90CRI)
CRI (Ra):	90 or 97
SDCM:	3-step MacAdam ellipse
UGR:	<19
Lifetime:	50,000 hours (L ₈₀ B ₂₀)
IP rating:	IP20
Driver options:	Non-Dim, Mains Dim, DALI, DMX
Warranty:	5 years
Body finish:	White, black or custom



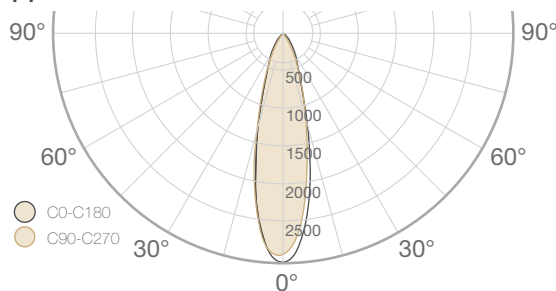
Polar charts (@3000K)

Dimensions

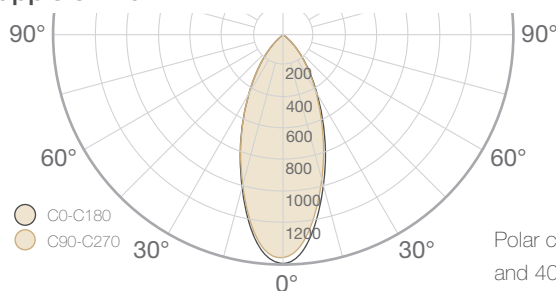
Puppis 8K 15°



Puppis 8K 24°

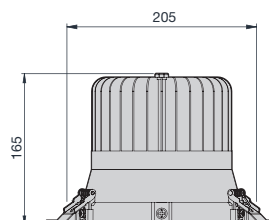


Puppis 8K 40°

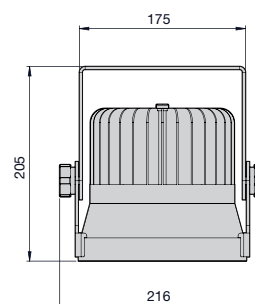
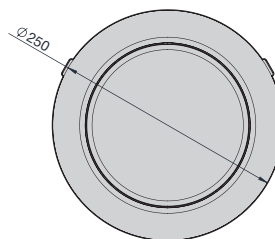
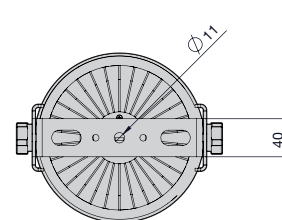


Polar charts for 2700K
and 4000K available
on request

Recessed



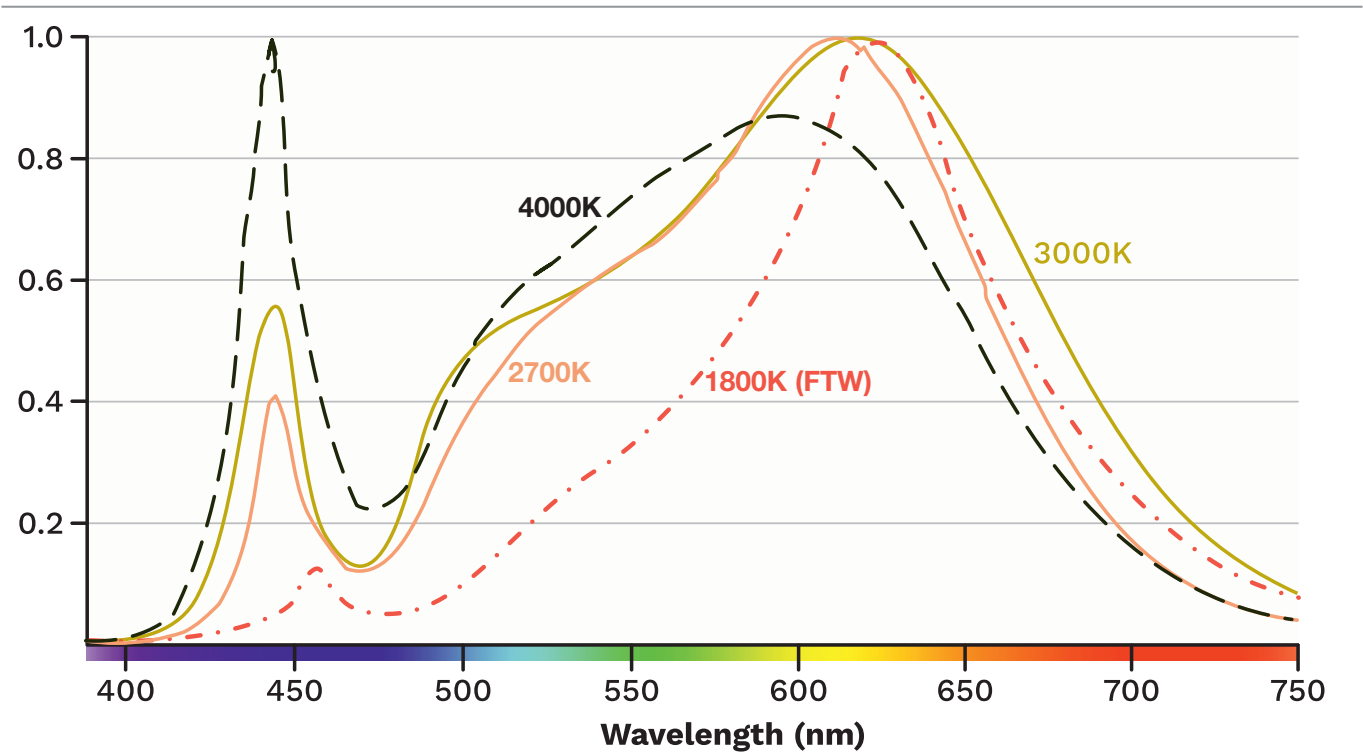
Yoke



Hole Cut-Out

Minimum -	205mm
Recommended -	210mm
Maximum -	240mm

Relative spectral distribution



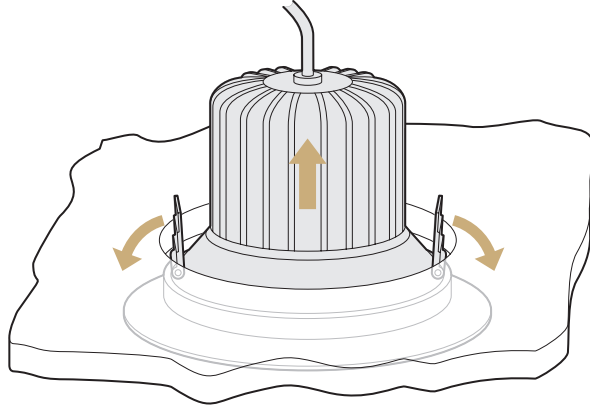
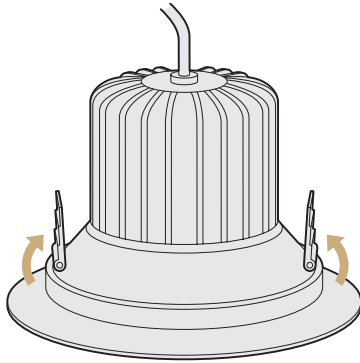
Order options

Range	Family	Variant	Diameter (mm)	Power (W)	Beam angle (°)	CCT (K)	CRI	Control	Colour
Focus	Puppis	Recessed Yoke	95	12	15	2700K	90	Non-Dim	Black
			170	22	24	3000K	97	Mains-Dim	White
			250	44	40	4000K		DALI	Custom
				55		3000K FTW		DMX	
				90					

*Specials are available on request

Recessed Installation

- Create the mounting hole at the required diameter. Add 4mm for clearance to the main body size for the chosen model. For instance, on 4K and 8K models, the hole should be $\text{Ø}205 + 4\text{mm} = 209\text{mm}$.
- Mount the required LED driver in the space above and cable it according to its specific instructions.
- Connect the cable from the Puppis fixture to the output of the LED driver.
- Fold up the locking arms of the Puppis fixture and insert it through the hole.
- The sprung arms will then push down against the top surface of the ceiling, keeping the fixture firmly in place.
- Ensure that there is sufficient space surrounding the rear of fitting clear of any insulation material or other hazards.



Safety Information

The Focus Series Puppis downlights should only be installed as per the guidelines above by a qualified and competent electrical installation technician. Safety bonds should be used where applicable and all products should be inspected for damage prior to installation.

These fixtures are Non-IC (Insulation Contact) rated, so a clear air gap of at least 76mm (3") must be maintained around them at all times, in addition to the space above.

Electrical Connection

The downlights should only be connected to a recommended GDS driver system and should not be directly connected to mains circuitry. Any connection to non-compatible LED drivers could cause irreversible damage to the fittings.

IP20 Protection

The fittings is protected against penetration from solid bodies of over 12mm in diameter. There is no protection against water/liquid ingress

Maximum Ambient Temperature

The fitting should not be installed and operated in an environment where the ambient temperature exceeds 45°C

Maximum Operation Temperature

The fitting can reach an external temperature of up to 85°C during normal operation

Disposal

The fitting is supplied in compliance with European Directive 2012/19/EU - Waste Electrical and Electronic Equipment (WEEE). Please dispose of accordingly.

**CAUTION: THIS IS A
LOW VOLTAGE DEVICE -ONLY
CONNECT TO GDS DRIVERS!**

