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Whitecroft
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SUPPLIER

Avenue Metro

The evolution of an icon



The evolution of an icon

Avenue Metro takes design and technology to new heights. The slim body creates a sense of space and drama, whilst continuous lines of light trace the contours of the building, complementing every interior design. Revolutionary optics use clustered LED arrays to deliver high light output with low glare, reducing the number of installed points and adding to the minimalist design that Avenue Metro promotes.



Flexibility in mounting

Avenue Metro can be used as a stand-alone luminaire, or joined together to create continuous lines of lighting that can trace the contours of a building. The 90 degree illuminated corner allows the designer to create signature shapes of light in the ceiling plane, or aid navigation around a building. The suspended version has an integral uplighting element that brings life to the ceiling plane and reduces contrast. Avenue Metro can also be mounted vertically, adding drama by creating ribbons of light in wall surfaces.

Metric Design

Avenue Metro is manufactured to true metric specifications. With lengths from one to three metres, Avenue Metro can be configured to any length in 0.25m increments, allowing exact ceiling integration and simplified design. Specification is further simplified as each length of luminaire can be ordered as a complete unit, rather than specifying body, optic and light engine separately.



Improved optical performance

Controlling glare

Glare control is a key component of creating a comfortable workplace. Avenue Metro offers two different approaches to controlling the glare normally associated with high output LED lighting solutions. Firstly, a high performance quadraprism optic is available which effectively controls glare at all angles of view, when combined with low output light engines. Avenue Metro also offers a unique pod optic that, combined with a new clustered LED array light engine, provides unrivalled glare control, even with high lumen outputs. These solutions support UGR19 requirements, ensuring compliance with LG7 and EN12464-1 and with BCO Lighting guidance, whilst allowing wider spacings and fewer installed luminaires.

Increased performance

Avenue Metro offers increased performance and ECA compliance across the range. The table below shows the depth of different outputs available, allowing optimised solutions for every application.

Recessed / Surface						
Optic	Output	Lumens*	Watts*	Lumens per Metre*	LL / CW	UGR Compliance **
Opal	Low	3736	30	1245	123	
Opal	High	8520	77	2840	111	
Prism	Low	3366	30	1122	111	☐
Pod	Low	3580	30	1193	121	☐
Pod	Medium	5800	49	1933	120	☐

Suspended with Uplight						
Optic	Output	Lumens*	Watts*	Lumens per Metre*	LL / CW	UGR Compliance **
Opal	Low	4402	35	1467	126	
Opal	High	10142	89	3381	114	
Prism	Low	4032	35	1344	115	☐
Pod	Low	4238	34	1413	124	☐
Pod	Medium	6900	56	2300	123	☐

* Based on 3m length luminaires
 ** Supports UGR compliance in EN12464-1 schemes



Wider choice of optics

Avenue Metro can be specified with 3 different optical arrangements. An Opal optic which is ideal for circulation and signature spaces, a Prism optic which controls glare for work and study spaces, and a Pod optic which combines glare control with a unique aesthetic appearance. All are TP(a) rated, allowing Avenue Metro to be used across circulation and emergency routes without limitation.



Opal diffuser

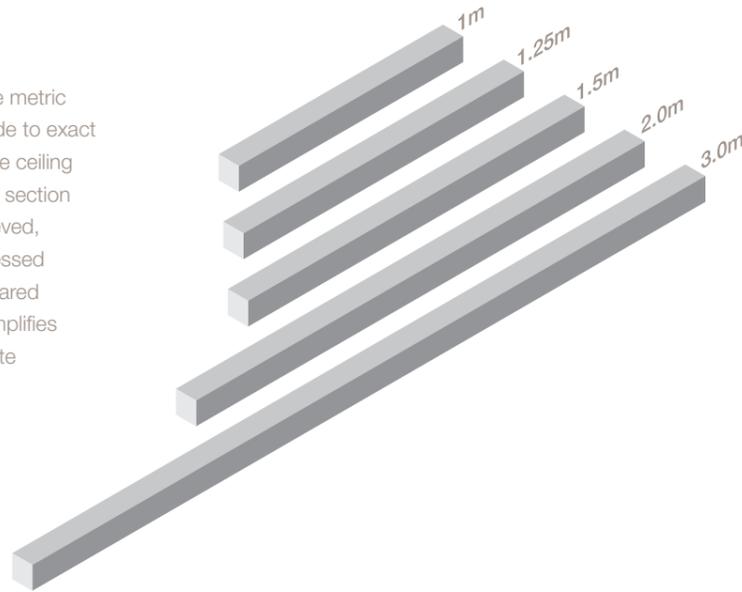
Quadraprism diffuser

Pod optic

Simple specification, simple installation

Metric design

One of the key design features of Avenue Metro is its true metric component design. This means that each element is made to exact dimensions, with simplified sizing that allows more precise ceiling integration and design flexibility. The inclusion of a 1.25m section in the range means that any length over 2m can be achieved, in 0.25m increments. This is particularly important in recessed applications whether in conjunction with modular or prepared aperture ceilings. The common component sizes also simplifies specification, with fewer components required to complete any arrangement.



Minimising visual joints

Avenue Metro offers a virtually seamless installed appearance. Each section is joined using a cam mechanism which ensures the tightest possible connection between luminaire bodies. The Opal and Prism optics are precision engineered to minimise visual interruption at the joints, and with lengths of up to 3 metres, the joints are spaced to avoid any repetition in the visual plane. For the ultimate joint-free appearance, the Pod optic is an overlapping design that has absolutely no visual joints, whatever the length of the luminaire.





Avenue Metro in action

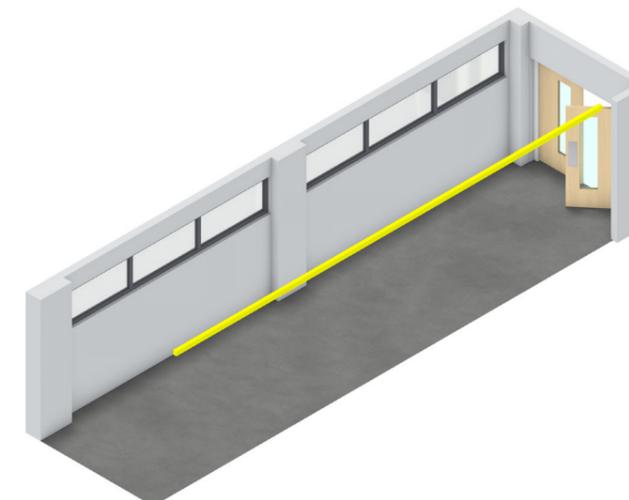
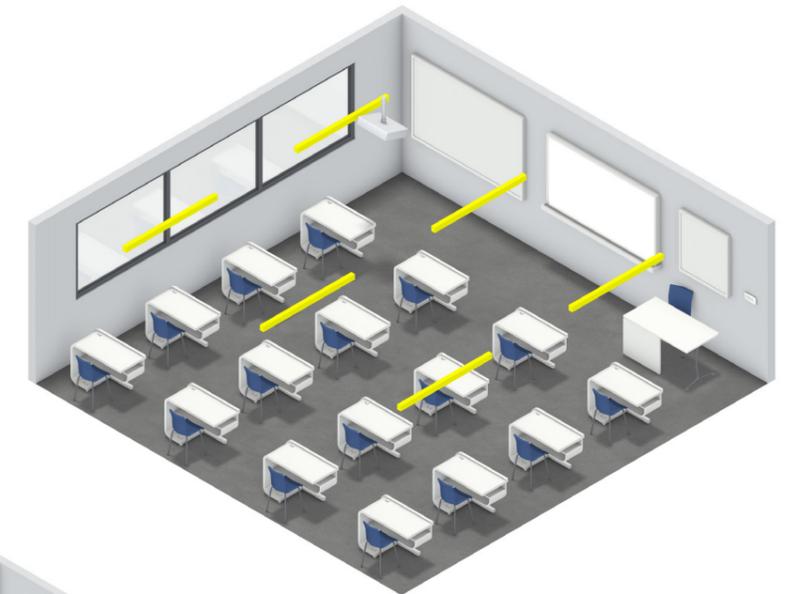


In the office

Visual comfort combines with a pleasing aesthetic to provide the ideal lighting solution for any office environment. The mid output variant of Avenue Metro with the Pod optic provides levels of illumination exceeding the requirements of LG7 and EN12464-1, whilst controlling glare effectively, with a UGR of <math><19</math>. Spacings of up to 3m x 3m can provide the lowest number of installed points, whilst the continuous mounted version can bring style to any commercial environment.

In education

Avenue Metro brings style and performance to the learning environment. With surface, suspended and recessed versions, any type of learning space can be lit, whilst the high performance optics deliver excellent uniformity, ensuring compliance with LG5 and other educational standards. Furthermore, when using the mid output variant with Pod optic, this can be achieved with minimal install points, reducing the installation cost and time.



Corridors

Circulation spaces are ideally suited to the linear form of Avenue Metro. Continuously mounted or as a stand-alone luminaire, it will provide over 200lux in most corridors, whilst delivering outstanding surface illumination. TP(a) diffusers and integral emergency lighting mean that it can be used in all circulation areas, including emergency exit ways, ensuring a coherent visual approach throughout a building.



Avenue Metro

Modular linear LED system for recessed, surface or suspension mounting



Optics

- Choice of optic:
 - Opal for general, circulation and feature areas
 - Prismatic and Pod for visual comfort in office environments and glare control in EN12464-1 and LG7 compliant schemes
- All diffusers are TP(a) rated polycarbonate material
- White pods for white or silver body luminaire, black pods for black body luminaire
- Available with e-light LED option for increased luminous efficacy (ll/cw) and reduced through life costs
- E-light LED as standard on Pod optic variant
- Suspended option has integral uplight as standard with 80% downlight, 20% uplight ratio
- Low, medium or high outputs available

Typical lumens per metre for recessed or surface mounting*

Optic	Low Output	Medium Output	High Output
Opal	1245	-	2840
Prismatic	-	1122	-
Pod	1193	1933	-

Typical lumens per metre for suspended with integral uplight mounting*

Optic	Low Output	Medium Output	High Output
Opal	1467	-	3381
Prismatic	-	1344	-
Pod	1413	2300	-

- Outputs should not be mixed in any continuous run
- 4000K 'cool' or 3000K 'warm' white LEDs

Body

- Modular options for clean continuous lines of light with or without infills or for use as a stand-alone luminaire
- Extruded aluminium body with die cast end caps
- Choice of integral emergency options; 3hr and COMEPE
- Surface and suspended body colour options include silver, white or black (black pods for black body luminaire)
- Recessed body colour white
- Through wiring as standard for simple electrical connection
- Cam joining mechanism delivers seamless join with no light loss
- Body lengths up to 3m, a 1.25m body in the range means that any length over 2m can be achieved, in 0.25m increments
- Corner units for creating signature shapes**
- Recessed mounting IP44
- Suspended and surface mounting IP20
- Surface mounted option can also be suspended
- Suitable for plasterboard and exposed T ceilings
- Recessed wall mounting options available, please contact the Whitecroft Technical Department for more information
- Optional integral Organic Response® wireless sensor that communicates with its neighbouring luminaires, automatically controlling light across the area***
- Recessed luminaires supplied with mounting kit
- Suspension and surface mounting kits supplied separately
- End caps and continuous joining kits supplied separately

* Based on 3m luminaire lengths

** Pod corner units are not illuminated

*** Every luminaire within an area that's to be controlled must have an integral Organic Response® detector. Wall switch and dongle are also available (supplied separately)

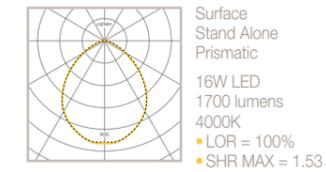
Order Codes

For latest order code information, please visit www.whitecroftlighting.com

Dimensions

For latest dimension information, please visit www.whitecroftlighting.com

Photometric Performance

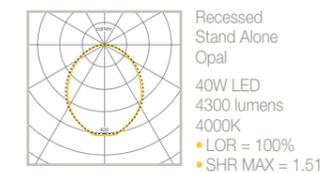


Utilisation Factors UF(F)
Room Reflectance Room Index

C	W	F	1.00	2.00	3.00
0.70	0.50	0.20	0.78	0.95	1.01

Utilisation Factors UF(F)
Room Reflectance Room Index

C	W	F	1.00	2.00	3.00
0.70	0.50	0.20	0.75	0.91	0.97



Utilisation Factors UF(F)
Room Reflectance Room Index

C	W	F	1.00	2.00	3.00
0.70	0.50	0.20	0.71	0.90	0.98

LED Performance

Colour Temp Ra (CRI) Life Expectancy Colour Consistency

3000/4000K Ra>80 L80(>60,000hrs)† MacAdam 3 SDCM

† Values quoted are typical, please visit www.whitecroftlighting.com for actual values across the range

To Specify

Modular linear LED system with a modern minimalist aesthetic for continuous or stand alone applications. TP(a) Opal diffuser for general, circulation and feature areas. TP(a) Prismatic diffuser or Pod optic for EN12464-1 compliant schemes. Suspended option has integral uplight with 80% downlight, 20% uplight ratio. Create long lines and angles of light with a seamless aesthetic – as Whitecroft Lighting AVENUE METRO.