





Suspended systems can provide a dynamic aesthetic feature within a space as well as being an excellent format for direct and indirect light. Vertex provides all these benefits. Designed around the T5 lamp, it has an elegant low profile design and is offered with a choice of louvre or high performance optical panel technology. It is available in white or silver-grey colour finishes and the luminaires can be suspended individually or as a continuous run of luminaires. Individual luminaires are also available as surface mount versions.

With ease of installation through the simple yoke suspension kit and snap-lock continuous end-caps, plus the added benefit of integral emergency variants, Vertex is a comprehensive solution for many interior applications.

- Low profile design provides an elegant contemporary aesthetic
- Simple fixings and plug and play continuous system wiring reduces installation time
- 65°-1500cd/m<sup>2</sup> louvre or micro-prism panels give an aesthetic choice for the optical control
- Individual or continuous suspended direct/indirect luminaires or individual surface mount options to suit many installation requirements
- Aids lighting scheme design to comply with LG7 and BS EN 12464-1
- Integral emergency versions, 3 hour duration available

## Lamps and Control Gear Options

- 14W, 28W, 35W (HE) T5 fluorescent - G5 cap 
- 24W, 54W, 49W, 80W (HO) T5 fluorescent - G5 cap 
- High frequency control gear as standard
- DSI and DALI dimming version available

## Materials

- Body - extruded aluminium RAL9016 white or RAL9006 silver-grey finish
- Gear tray - steel, RAL9016 white finish
- End caps - injection moulded ABS, colour matched
- Louvre - injection moulded ABS with metalised mirror finish
- Panel optic - clear TPa rated microprism panel

## Installation Notes

- Suitable for direct fix, or suspension via 2 x adjustable wire suspension kits (1.5m supplied with suspended luminaire versions, an additional suspension kit may be required for infill modules. 1.5m and 5m suspension kits available as an accessory)
- Suspension height adjusted via simple clutch mechanism
- Fused as standard
- Terminal block with 2 x 2.5mm<sup>2</sup> cable capacity per termination
- BESA fixing/cable entry feature on surface versions
- Supplied complete with lamps
- Simple plug and play connection for continuous versions
- Aids lighting scheme design to comply with LG7 and BS EN 12464-1 - Refer to Interior Lighting Design Guide on page 517
- Continuous systems have dedicated units for the beginning and end of a run due to plug and socket configuration

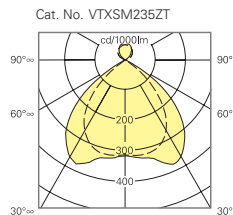
## Options

- Individual mount luminaires
- Continuous suspended system constructed from start/end and mid section luminaires plus optional infill sections
- Mirror finish louvre or micro-prism panel optic
- Fully integral emergency conversion, 3 hour duration (not available on 600mm twin lamp)
- Emergency versions available with automatic test functionality - see page 235 for system features
- Lighting control and energy management options (refer to Controls Guide on page 457)

## Specification

To specify state: Architectural suspended/surface mount T5 luminaire, low profile extruded aluminium body, suitable for continuous suspended mounting, 50mm deep, profiled moulded end-cap, 65°-1500cd/m<sup>2</sup> mirror finish injection moulded louvre/microprism panel optic, suspended option with simple clutch mechanism height adjustment, as Eaton's Vertex range, part no. \_\_\_\_\_

## Photometric Data

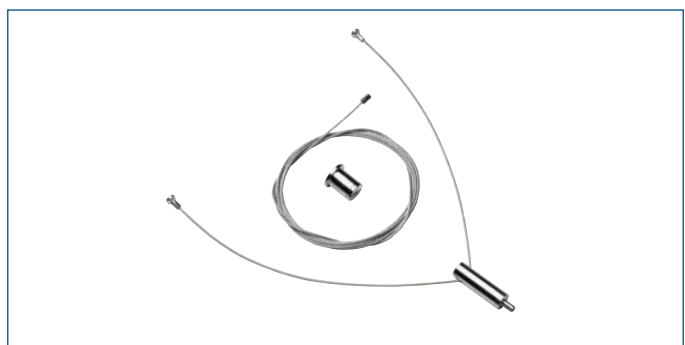


LOR: 0.86  
 ULOR: 0.13  
 DLOR: 0.73  
 SHR nom: 1.75  
 SHR max: 1.77

### Utilisation factors / TM5

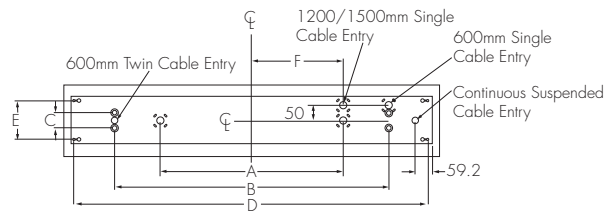
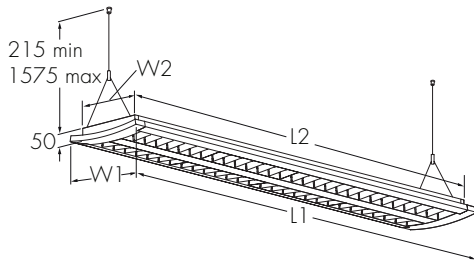
Reflectances			Room Index								
C	W	F	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0	5.0
70	50	20	N/A	70	74	77	81	84	86	88	90
		30	N/A	66	70	73	78	81	83	86	88
		10	N/A	62	67	71	75	79	81	84	86
50	50	20	N/A	67	71	73	77	79	81	83	84
		30	N/A	63	67	70	74	77	79	81	82
		10	N/A	61	65	68	72	75	77	80	81
30	50	20	N/A	64	68	70	73	75	76	78	78
		30	N/A	61	65	68	71	73	74	76	77
		10	N/A	59	63	66	69	72	73	75	76
0	0	0	N/A	56	59	61	64	66	67	69	70
BZ-Class			1	1	1	1	1	1	1	1	1

See page 514 for Design Guide



Suspension wire kit

## Dimensions



## Luminaire dimensions and feature locations (dual dimensions refer to single/twin lamp options)

Wattage	Nominal Length (mm)	Individual L1 (mm)	Continuous L2 (mm)	W1 (mm)	W2 (mm)	BESA			Suspension Centres		
						A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
14/24W	600	662	620	230/240	180/190	n/a	500	50	600	130/143	n/a
25/54W	1200	1233	1191	230/240	180/190	600	900	50	1157	130/143	300
35/49/80W	1500	1520	1477	230/240	180/190	600	900	50	1443	130/143	300

## Luminaire weight information

Wattage	Nominal Length (mm)	Ind. Surface		Ind. Suspended		Cont. Suspended	
		Louvre	Panel	Louvre	Panel	Louvre	Panel
14/24W	600	2.50	2.65	2.60	2.75	2.80	2.95
28/54W	1200	4.18	4.48	4.28	4.58	4.80	4.78
35/49/80W	1500	5.23	5.60	5.33	5.70	5.53	5.90

## Infill section weight and length information

Nominal Length (mm)	L2 (mm)	Weight (kg)
300	334	1.57
600	620	2.44
900	906	3.31
1200	1191	4.18
1500	1477	5.05

## Additional weight for integral emergency control gear

Wattage	Weight add on (kg)
1 x 14W	0.65
1 x 24W	0.79
28/35W	1.11
54/49/80W	1.24

# Surface and Suspended

Vertex

## Simple suspension method



1. Secure suspension boss to the mounting surface



2. Thread drop wire through lower half of suspension boss and screw into the upper section on the mounting surface



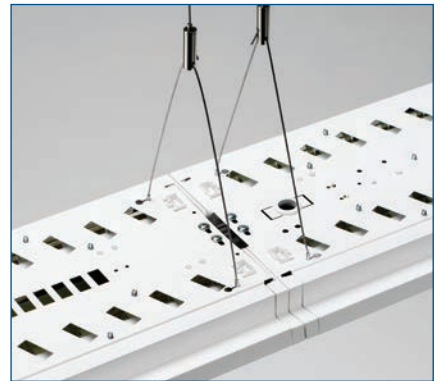
3. Thread drop wire into clutch mechanism



4. Locate yoke into keyhole feature on rear of luminaire



5. For continuous runs, align plug and socket and join together



6. Ensure location pegs locate into opposing endplate and move adjacent luminaires horizontally in opposing directions to lock the endplates together with simple 'snap fit' method

## Vertex range examples



1200mm single lamp louvred option

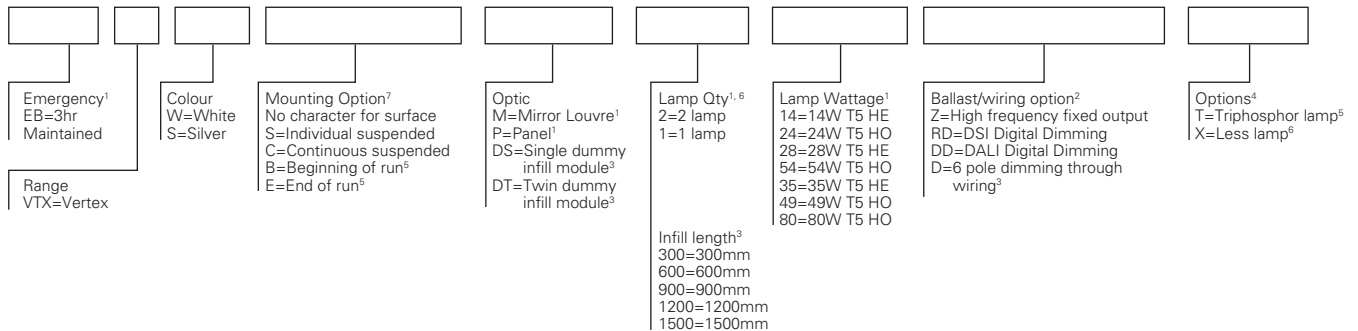


600mm twin lamp louvred option



1200mm single lamp panel option

## Catalogue Numbers



### Notes:

- Luminaire module option only, not compatible with infill modules
- All HF infills have 4-pole through wiring with the Z character suffix. Where digital dimming is used replace the 'Z' with 'D' for 6-pole through wiring, compatible with 'RD' and 'DD' luminaires
- Dummy infill option only, not compatible with luminaire modules
- Lighting control options available - please discuss requirements with your Eaton representative
- On continuous systems the start and end modules require the 'B' or 'E' character in the mounting option to denote they are beginning or end modules to ensure plugs/sockets align correctly
- Single and twin lamp housings are different widths, do not mix in continuous runs
- Not required for dummy infill as they are continuous suspended

### Luminaire module example:

Lamp Option	Colour Finish	Optic	Cat No	Weight (kg)	Emergency Cat No	Weight (kg)
2 x 28W	White	65°-1500cd/m2 louvre	VTXWWM228ZT	4.18	EBVTXWWM228ZT	5.29

Emergency versions available with automatic test functionality - see page 235 for system features  
(Twin lamp 600mm luminaires are not available with integral emergency)

### Infill module examples:

Lamp Option	Colour Finish	Description	Single Cat No	Twin Cat No	Length L2 (mm)	Weight (kg)
300mm	White	Standard 300mm infill with 4-pole HF through wiring	VTXWDS300Z	VTXWDT300Z	334.0	1.57
600mm	White	Standard 600mm infill with 4-pole HF through wiring	VTXWDS600Z	VTXWDT600Z	619.7	2.44
900mm	White	Standard 900mm infill with 4-pole HF through wiring	VTXWDS900Z	VTXWDT900Z	906.1	3.31
1200mm	White	Standard 1200mm infill with 4-pole HF through wiring	VTXWDS1200Z	VTXWDT1200Z	1191.0	4.18
1500mm	White	Standard 1500mm infill with 4-pole HF through wiring	VTXWDS1500Z	VTXWDT1500Z	1476.9	5.05

Infills have the same dimensions as continuous suspended luminaires  
For silver finish substitute 'W' for 'S' in the catalogue number

### Accessories:

Colour Finish	Description	Cat No	Weight (kg)
n/a	Vertex Suspension Kit 1.5m dropwire and yoke	VTX1500SK	0.05
n/a	Vertex Suspension Kit 5m dropwire and yoke	VTX5000SK	0.07
White	Vertex White Individual single lamp end caps - pair	VTXWEC	0.18
White	Vertex White Continuous single lamp end caps - mating pair	VTXWCEC	0.10
White	Vertex White Individual twin lamp end caps - pair	VTXWTEC	0.18
White	Vertex White Continuous twin lamp end caps - mating pair	VTXWTCEC	0.10
Silver	Vertex Silver Individual single lamp end caps - pair	VTXSEC	0.18
Silver	Vertex Silver Continuous single lamp end caps - mating pair	VTXSCEC	0.10
Silver	Vertex Silver Individual twin lamp end caps - pair	VTXSTEC	0.18
Silver	Vertex Silver Continuous twin lamp end caps - mating pair	VTXSTCEC	0.10

Emergency versions available with automatic test functionality - see page 235 for system features

For further information contact our technical support and application department on 01302 303240 or email [lighting@cooper-ls.com](mailto:lighting@cooper-ls.com)

