

Whitecroft
lighting



Additions 10

Vector
Architectural Suspended T5 Fluorescent

Vector - T5

MOTIVATION

With suspended luminaires, aesthetic considerations are paramount. When luminaires enter the room space envelope they need to complement the surrounding environment.

Vector's slim curved profile is created from high quality aluminium extrusions designed to enhance any room. T5 lamps combine with very high optical efficiency to ensure Vector delivers energy efficiency and an exceptionally low cost of ownership.

APPLICATION

Commercial

- Offices
- Reception areas
- Conference rooms
- Board rooms
- Receptions

SPECIFICATION

Body

- Lamp options:
 - 1/2 x 28 or 35W HE
 - 1 x 49, 54 or 80W HO
- Individual or continuous in line mounting
- Twin adjustable stainless steel wire suspension kits included (1.5m drop standard)
- Power entry for drop from ceiling into back of luminaire
- Body: Extruded aluminium
- End caps: Injection moulded colour coded polycarbonate (order separately)
- Ceiling rose cover: Injection moulded colour coded polycarbonate with curved aesthetic sympathetic with the body profile
- Colours:
 - Silver RAL9006
 - White RAL9010
- High frequency or high frequency regulating gear as standard
- Internal wire-way for through wiring if continuously mounted
- Fully integral 3 hour emergency options
-  Command 3 intelligent integrated lighting control system optional - located in louvre
- Supplied without lamps

Optics

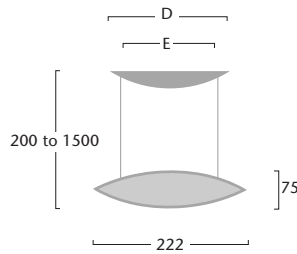
- Choice of light output ratios:
 - 100% down
 - 90% down 10% up
 - 70% down 30% up single lamp
 - 60% down 40% up on twin lamp
- LG3 zero irridescence Cat 2.200 miro4 specular louvre
- LOR 96.5% on 1 x 35W single lamp 70:30 version
- Louvre positively retained on leaf springs

Vector suspended luminaire



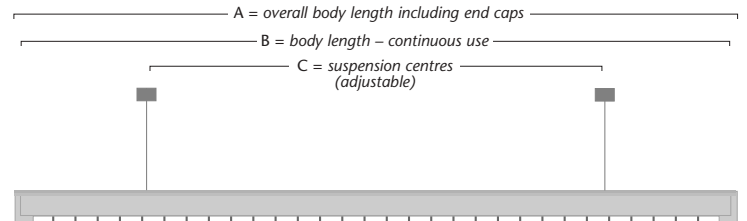
Vector end cap detail with Command 3 lighting control systems



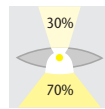


DIMENSIONS

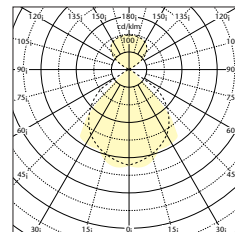
LAMP WAYS	A	LONGITUDINAL DIMENSIONS		D	FIXING CENTRE E	WEIGHT KG
		B	C			
1 x 28W T5 HE	1208	1200	800	200	120	4.5
2 x 28W T5 HE						
1 x 35W T5 HE	1508	1500	1000	200	120	5.2
2 x 35W T5 HE						
49W T5 HO	1508	1500	1000	200	120	5.2
54W T5 HO	1208	1200	800	200	120	4.5
80W T5 HO	1508	1500	1000	200	120	4.5



Vector 30:70 LG3 CAT 2 1 x 35W T5 Linear Fluorescent

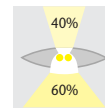


- SHR MAX = 1.62
- LOR = 96.5%

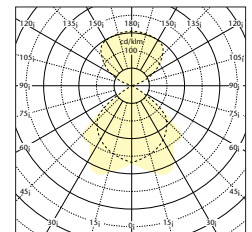


UTILISATION FACTORS UF(F)		SHR NOM=1.50									
Room Reflectance		Room Index									
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.62	0.69	0.75	0.78	0.83	0.86	0.88	0.91	0.93
0.50	0.30	0.20	0.54	0.60	0.65	0.68	0.72	0.75	0.77	0.80	0.82
0.00	0.00	0.00	0.44	0.48	0.51	0.53	0.56	0.57	0.59	0.60	0.61

Vector 40:60 LG3 CAT 2 2 x 35W T5 Linear Fluorescent

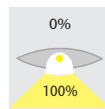


- SHR MAX = 1.89
- LOR = 94.0%

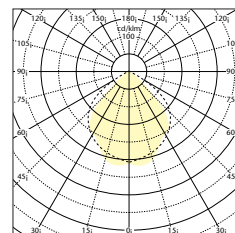


UTILISATION FACTORS UF(F)		SHR NOM=1.75									
Room Reflectance		Room Index									
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.47	0.56	0.62	0.66	0.72	0.76	0.79	0.83	0.85
0.50	0.30	0.20	0.36	0.44	0.50	0.54	0.60	0.63	0.66	0.69	0.71
0.00	0.00	0.00	0.24	0.30	0.34	0.36	0.40	0.42	0.43	0.45	0.46

Vector 0:100 LG3 CAT 2 1 x 35W T5 Linear Fluorescent

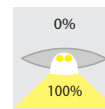


- SHR MAX = 1.54
- DLOR = 73.7%

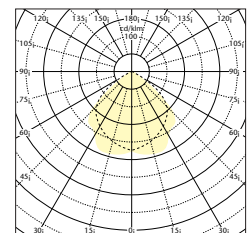


UTILISATION FACTORS UF(F)		SHR NOM=1.50									
Room Reflectance		Room Index									
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.59	0.65	0.68	0.71	0.74	0.76	0.78	0.80	0.81
0.50	0.30	0.20	0.55	0.60	0.64	0.67	0.70	0.72	0.74	0.75	0.77
0.00	0.00	0.00	0.51	0.56	0.59	0.62	0.65	0.66	0.68	0.69	0.70

Vector 0:100 LG3 CAT 2 2 x 35W T5 Linear Fluorescent

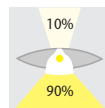


- SHR MAX = 1.77
- DLOR = 63.7%

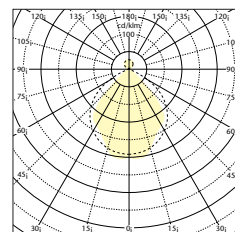


UTILISATION FACTORS UF(F)		SHR NOM=1.75									
Room Reflectance		Room Index									
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	n/a	0.55	0.59	0.61	0.64	0.66	0.67	0.69	0.71
0.50	0.30	0.20	n/a	0.52	0.55	0.57	0.60	0.62	0.63	0.65	0.67
0.00	0.00	0.00	n/a	0.48	0.51	0.53	0.56	0.57	0.58	0.60	0.62

Vector 10:90 LG3 CAT 2 1 x 35W T5 Linear Fluorescent

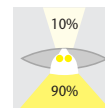


- SHR MAX = 1.50
- LOR = 78.3%

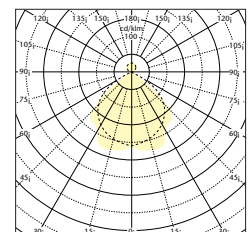


UTILISATION FACTORS UF(F)		SHR NOM=1.50									
Room Reflectance		Room Index									
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.59	0.65	0.69	0.71	0.75	0.77	0.79	0.81	0.82
0.50	0.30	0.20	0.54	0.59	0.63	0.66	0.69	0.71	0.73	0.75	0.76
0.00	0.00	0.00	0.48	0.53	0.56	0.58	0.61	0.62	0.63	0.65	0.66

Vector 10:90 LG3 CAT 2 2 x 35W T5 Linear Fluorescent



- SHR MAX = 1.78
- LOR = 68.9%



UTILISATION FACTORS UF(F)		SHR NOM=1.75									
Room Reflectance		Room Index									
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	n/a	0.56	0.59	0.62	0.65	0.67	0.69	0.70	0.73
0.50	0.30	0.20	n/a	0.50	0.54	0.56	0.59	0.61	0.63	0.65	0.67
0.00	0.00	0.00	n/a	0.44	0.47	0.49	0.52	0.53	0.54	0.55	0.57

LAMP PERFORMANCE MATRIX				
WATTAGE	IL@25°C	TOTAL CIRCUIT WATTS	LUMENS PER CIRCUIT WATT	LAMP LIFE TO 50% FAILURE
1 x 28W T5 HE	2600	32	81	20000
2 x 28W T5 HE	5200	62	84	
1 x 35W T5 HE	3300	39	85	20000
2 x 35W T5 HE	6600	77	86	
49W T5 HO	4300	54	80	20000
54W T5 HO	4450	60	74	20000
80W T5 HO	6150	86	72	20000

Recommended scheduled lamp replacement at 80% of rated life = 16000 hours

ORDER CODES

Vector - T5

SUSPENDED ARCHITECTURAL T5 FLUORESCENT LUMINAIRE

PRODUCT REFERENCES are for silver with high frequency gear & Cat 2.200 specular louvre, complete with suspension kit and continuous mounting kit but excluding end caps.

PRODUCT REFERENCE	COLOUR	SUPPLIED WITHOUT LAMPS
VECW2H128##S	Silver	1 x 28W T5 HE
VECW2H228##S	Silver	2 x 28W T5 HE
VECW2H135##S	Silver	1 x 35W T5 HE
VECW2H235##S	Silver	2 x 35W T5 HE
VECW2H149##S	Silver	1 x 49W T5 HO
VECW2H154##S	Silver	1 x 54W T5 HO
VECW2H180##S	Silver	1 x 80W T5 HO
VECECS	Silver	Set of 2 silver end caps
VECINF300S	Silver	300mm infill
VECINF600S	Silver	600mm infill
VECINF900S	Silver	900mm infill
VECINF1200S	Silver	1200mm infill

COLOUR Substitute suffix W in place of the S in the order codes above
W White, i.e. VECW2H12870W, VECECW and VECINF300W

HIGH FREQUENCY REGULATING GEAR Substitute R for H in the order codes above
R High frequency regulating gear, i.e. VECW2R12870S

COMMAND 3  Substitute C for H on order codes above
C Intelligent integrated lighting control system i.e. VECW2C12870S

LIGHT OUTPUT RATIO Replace suffix ## with light output ratio code below
60 60% down 40% up i.e. VECW2H22860S (twin lamp option only)
70 70% down 30% up i.e. VECW2H12870S (single lamp option only)
90 90% down 10% up i.e. VECW2H12890S
100 100% down i.e. VECW2H128100S

EMERGENCY Add suffix to order codes above
EMIN 3hr maintained fully integral emergency for all versions, i.e. VECW2H12870SEMIN

To specify state:
 Suspended T5 fluorescent luminaire with direct: indirect lighting ratios of 100% down, 90:10, 70:30 (60:40 on twin lamp). Body to be in extruded aluminium and end caps and ceiling roses to be colour coded with luminaire body. Width and depth not to exceed 222 and 75mm respectively and gear and emergency to be integral – as Whitecroft Lighting VECTOR.



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