

Merlin™

MOTIVATION

Merlin™ has been developed to exploit the efficiency advantages of the T5 lamp, and to permit the creation of a more pleasing and comfortable visual environment where ceiling heights permit.

APPLICATION

- Offices
- Reception areas
- Corridors
- Conference rooms
- Board rooms

SPECIFICATION

Body

- Lamp options:
 - 1 x 28W HE
 - 1 x 35W HE
 - 1 x 49W HO
 - 1 x 54W HO
 - 1 x 80W HO
- Individual or continuously mounted
- Twin stainless steel wire suspension included (1.5m drop standard) – adjustable
- Power entry for drop from ceiling into back of luminaire
- Body: Extruded aluminium
- End caps: Injection moulded polycarbonate (specify separately)
- Ceiling rose cover: Injection moulded polycarbonate
- Corner junctions: Moulded GRP and polycarbonate
- Corner junctions: 90° and 135°
- Variable radiused corner (specify angle)
- T box
- Cross box

Colours:

- Silver RAL9006
- White RAL9010

High frequency or high frequency regulating gear standard

Internal wire way for through wiring when continuously mounted

Fully integral emergency options (except 80W versions)

Supplied less lamps

Optics

- Choice of light output ratios:
 - 100% down
 - 90% down 10% up
 - 70% down 30% up
 - 100% up
- LG3 Cat 2 .200 clearlux specular or 2.500 midlux semi-specular louvre
- Curved wedge louvre to match body profile
- Perimeter flange reduces light spill
- Full depth profile end caps
- Positive retention – leaf springs
- Low iridescence



Suspension method detail

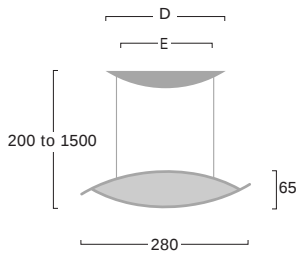


Ceiling mounting detail

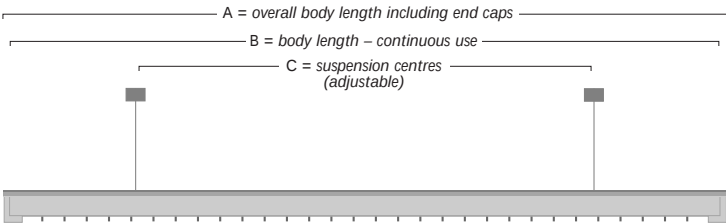




Merlin™ end cap detail



DIMENSIONS						
LAMP WAYS	A	LONGITUDINAL DIMENSIONS		D	FIXING CENTRE E	WEIGHT KG
		B	C			
1 x 28W	1222	1200	800			
1 x 35W	1522	1500	1000			
1 x 49W	1222	1200	800	200	120	8.5 max
1 x 54W	1222	1200	800			
1 x 80W	1522	1500	1000			

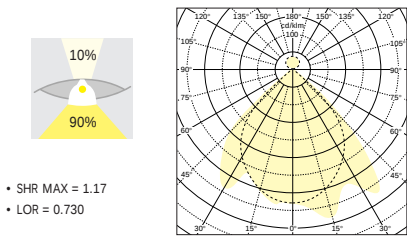


Note: Special continuous suspension arrangements may be possible on a project basis and at Whitecroft Lighting's discretion.

Merlin™TM

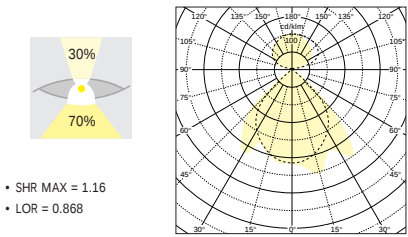


Merlin™ 10:90
LG3 CAT 2
1 x 35W T5 Linear Fluorescent



UTILISATION FACTORS UF(F)						SHR NOM=1.00					
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	0.45	0.53	0.58	0.61	0.66	0.69	0.71	0.73	0.75
0.50	0.30	0.20	0.43	0.50	0.55	0.58	0.62	0.65	0.67	0.69	0.70
0.00	0.00	0.00	0.32	0.40	0.44	0.47	0.51	0.54	0.55	0.57	0.59

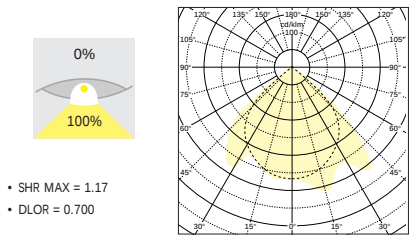
Merlin™ 30:70
LG3 CAT 2
1 x 35W T5 Linear Fluorescent



UTILISATION FACTORS UF(F) SHR NOM=1.00

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	0.61	0.65	0.71	0.74	0.77	0.80	0.83
0.50	0.30	0.20	0.43	0.51	0.55	0.59	0.63	0.66	0.68	0.71	0.72
0.00	0.00	0.00	0.28	0.34	0.38	0.41	0.44	0.46	0.48	0.50	0.51

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



UTILISATION FACTORS UF(F)				SHR NOM=1.00							
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	0.46	0.54	0.59	0.62	0.66	0.69	0.71	0.74	0.75
0.50	0.30	0.20	0.44	0.52	0.57	0.60	0.64	0.67	0.69	0.71	0.72
0.00	0.00	0.00	0.35	0.43	0.48	0.52	0.56	0.59	0.60	0.63	0.64





Variable radiused corner - MERCRS



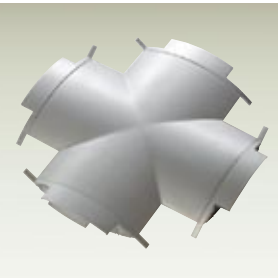
90° Corner junction MERC90S



135° Corner junction MERC135S



T-box junction MERCTS



Cross box junction MERCXS

Merlin™

ORDER CODES

SUSPENDED ARCHITECTURAL T5 FLUORESCENT LUMINAIRE

LIGHT OUTPUT RATIO	HIGH FREQUENCY GEAR	COLOUR	SUPPLIED LESS LAMPS	LOUVRE	HIGH FREQUENCY REGULATING GEAR
100% Down 	MERW2H128100S	Silver	1 x 28W T5	W2.200 Specular	MERW2R128100S
	MERW2H154100S		1 x 54W T5		MERW2R154100S
	MERW2H135100S		1 x 35W T5		MERW2R135100S
	MERW2H149100S		1 x 49W T5		MERW2R149100S
	MERW2H180100S		1 x 80W T5*		MERW2R180100S
	MERW5H128100S		1 x 28W T5	W2.500 Semi-specular	MERW5R128100S
	MERW5H154100S		1 x 54W T5		MERW5R154100S
	MERW5H135100S		1 x 35W T5		MERW5R135100S
	MERW5H149100S		1 x 49W T5		MERW5R149100S
	MERW5H180100S		1 x 80W T5*		MERW5R180100S
90% Down 10% Up 	MERW2H12890S	Silver	1 x 28W T5	W2.200 Specular	MERW2R12890S
	MERW2H15490S		1 x 54W T5		MERW2R15490S
	MERW2H13590S		1 x 35W T5		MERW2R13590S
	MERW2H14990S		1 x 49W T5		MERW2R14990S
	MERW2H18090S		1 x 80W T5*		MERW2R18090S
	MERW5H12890S		1 x 28W T5	W2.500 Semi-specular	MERW5R12890S
	MERW5H15490S		1 x 54W T5		MERW5R15490S
	MERW5H13590S		1 x 35W T5		MERW5R13590S
	MERW5H14990S		1 x 49W T5		MERW5R14990S
	MERW5H18090S		1 x 80W T5*		MERW5R18090S
70% Down 30% Up 	MERW2H12870S	Silver	1 x 28W T5	W2.200 Specular	MERW2R12870S
	MERW2H15470S		1 x 54W T5		MERW2R15470S
	MERW2H13570S		1 x 35W T5		MERW2R13570S
	MERW2H14970S		1 x 49W T5		MERW2R14970S
	MERW2H18070S		1 x 80W T5*		MERW2R18070S
	MERW5H12870S		1 x 28W T5	W2.500 Semi-specular	MERW5R12870S
	MERW5H15470S		1 x 54W T5		MERW5R15470S
	MERW5H13570S		1 x 35W T5		MERW5R13570S
	MERW5H14970S		1 x 49W T5		MERW5R14970S
	MERW5H18070S		1 x 80W T5*		MERW5R18070S
100% Up 	MERW2H1280S	Silver	1 x 28W T5	W2.500 Semi-specular	MERW2R1280S
	MERW2H1540S		1 x 54W T5		MERW2R1540S
	MERW2H1350S		1 x 35W T5		MERW2R1350S
	MERW2H1490S		1 x 49W T5		MERW2R1490S
	MERW2H1800S		1 x 80W T5*		MERW2R1800S

SYSTEM COMPONENTS Order separately – substitute S for W to order White

MERECs	A set of 2 end caps – silver	MERC90S	90° corner junction – silver
MERCTs	T box junction – silver	MERC135S	135° corner junction – silver
MERCXs	Cross box junction – silver		
MERCRS	Specified corner radius (dependent on quantity) – silver		

COLOUR Substitute suffix to order codes above

W White i.e. MERW2H1800W

EMERGENCY Add suffix to order codes above

EMIN 3 hour integral emergency i.e. MERW5R1280SEMIN * Not available on 80W versions

ORDERING NOTE:

The order codes above include relevant body complete with louvre, suspension kit and continuous mounting kit

INDIVIDUAL MOUNTING	CONTINUOUS MOUNTING
A set of 2 outer end caps must also be ordered separately	Relevant corner components must be ordered separately

END CAPS AND CORNER JUNCTIONS

Please ensure end caps and corner junctions are specified during the system design

If any clarification is required please contact Whitecroft Lighting Technical Department

To specify state:

Suspended T5 fluorescent luminaire system with direct/indirect lighting ratio 100% down/90% down-10% up/70% down-30% up/100% up. Extruded aluminium body and moulded plastic end caps. <65mm in depth Cat 2 louvre with curved edge blade following body profile – as Whitecroft Lighting MERLIN™.