

merlinTM

Suspended: Architectural T5 fluorescent system



APPLICATION

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

SPECIFICATION

Body

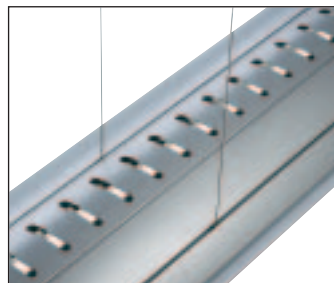
- Lamp options:
 - 1 x 35W
 - 1 x 49W
 - 1 x 54W
 - 1 x 80W
- Individual or continuously mounted
- Twin adjustable stainless steel wire suspension included (1.5m drop standard)
- Power entry from ceiling into back of luminaire
- Body: Extruded aluminium
- End caps: Injection moulded polycarbonate (specify separately)
- Ceiling rose cover: Injection moulded polycarbonate
- Corner junctions: Moulded GRP and polycarbonate
- Corner junctions: 90° and 135°
- Variable corner radius (specify angle)
- T-box
- Cross box
- Colours:
 - Silver RAL 9006
 - White RAL 9010
- High frequency or high frequency dimming gear as standard
- Internal wire-way for through wiring when continuously mounted
- Supplied less lamps

Options

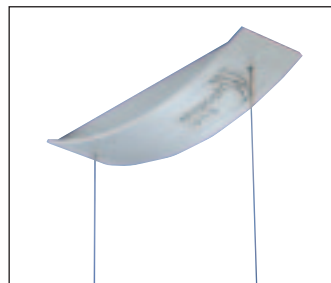
-  Easytest – integral self test version available see page 181
-  Command 3 – intelligent integrated lighting control system optional see page 197

Optics

- Choice of light output ratios:
 - 10% up 90% down
 - 30% up 70% down
- MIRO 6 semi-specular zero iridescence louvre
- Curved wedge louvre to match body profile
- Perimeter flange to reduce light spill
- Full depth profile end caps
- Positive retention – leaf springs



Suspension method detail



Ceiling mounting detail

QuickLink

MERW

Go

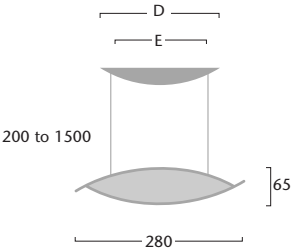
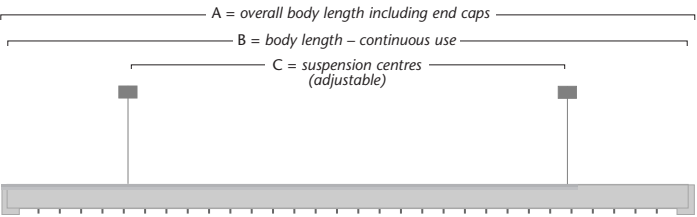
merlin™

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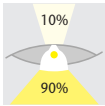
DIMENSIONS

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

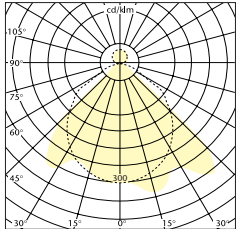


PHOTOMETRY

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

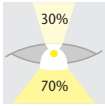


- SHR MAX = 1.17
- LOR = 73%

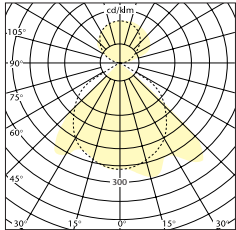


UTILISATION FACTORS UF(F)				SHR NOM=1.00									
Room Reflectance			Room Index		0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00		
0.70	0.50	0.20	0.45	0.53	0.58	0.61	0.66	0.69	0.71	0.73	0.75		
0.50	0.30	0.20	0.43	0.50	0.55	0.58	0.62	0.65	0.67	0.69	0.70		
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 Lamp



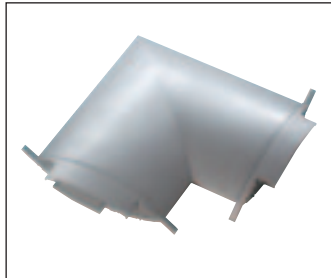
- SHR MAX = 1.16
- LOR = 86.8%



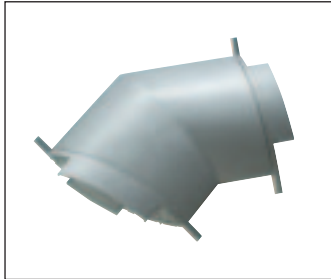
UTILISATION FACTORS UF(F)				SHR NOM=1.00							
Room Reflectance			Room Index								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.47	0.56	0.61	0.65	0.71	0.74	0.77	0.80	0.83
0.50	0.30	0.20	0.43	0.51	0.55	0.59	0.63	0.66	0.68	0.71	0.72
0.00	0.00	0.00	0.28	0.34	0.38	0.41	0.44	0.46	0.48	0.50	0.51



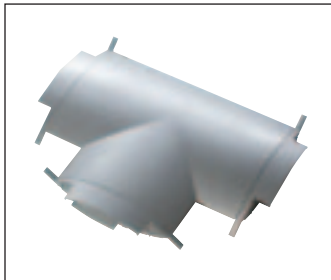
Variable radius corner – MERCR#S



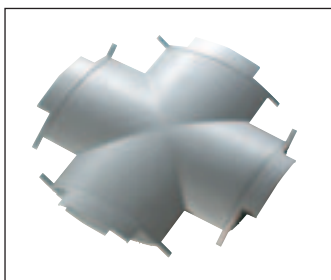
90° Corner junction – MERC90S



135° Corner junction – MERC135S



T-box junction – MERCTS



Cross box junction – MERCXS

ORDER CODE – MERLIN

LIGHT OUTPUT RATIO	SUPPLIED LAMP	COLOUR	HIGH FREQUENCY GEAR	LOUVRE	HIGH FREQUENCY ANALOGUE DIMMING GEAR
10% Up 90% Down 	1 x 54W T5	Silver	MERW5H15490S	Semi Specular	MERW5R15490S
	1 x 35W T5		MERW5H13590S		MERW5R13590S
	1 x 49W T5		MERW5H14990S		MERW5R14990S
	1 x 80W T5		MERW5H18090S		MERW5R18090S
30% Up 70% Down 	1 x 54W T5	Silver	MERW5H15470S	Semi Specular	MERW5R15470S
	1 x 35W T5		MERW5H13570S		MERW5R13570S
	1 x 49W T5		MERW5H14970S		MERW5R14970S
	1 x 80W T5		MERW5H18070S		MERW5R18070S

SYSTEM COMPONENTS Order separately – substitute **W** for S 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		
MERCR#s	Specified (#) corner radius (dependent on quantity) – Silver		

COLOUR Substitute suffix to order codes above

W White, i.e. MERW5H13590**W**

COMMAND 3 Substitute suffix **C** in place of the H in the order codes above

C Intelligent integrated lighting control system, i.e. MERW5**C**13590S

EMERGENCY Add suffix to order codes above

EMIN 3 hour integral emergency, i.e. MERW5R13590**SEMIN**

EASYTEST OPTION Add suffix to order code above

/ET Integral self autotest, i.e. MERW5R13590S/**ET**

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

INDIVIDUAL MOUNTING

A set of 2 outer end caps **must** also be ordered separately

CONTINUOUS MOUNTING

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 10% up–90% down/30% up–70% down. 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™

LAMP PERFORMANCE MATRIX

WATTAGE	IL@25°C	LAMP LIFE
1 x 35W T5	3300	20,000
1 x 49W T5	4300	20,000
1 x 54W T5	4450	20,000
1 x 80W T5	6150	20,000