

cascade

Recessed fluorescent: Architectural luminaire



APPLICATION

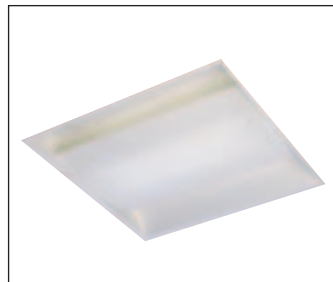
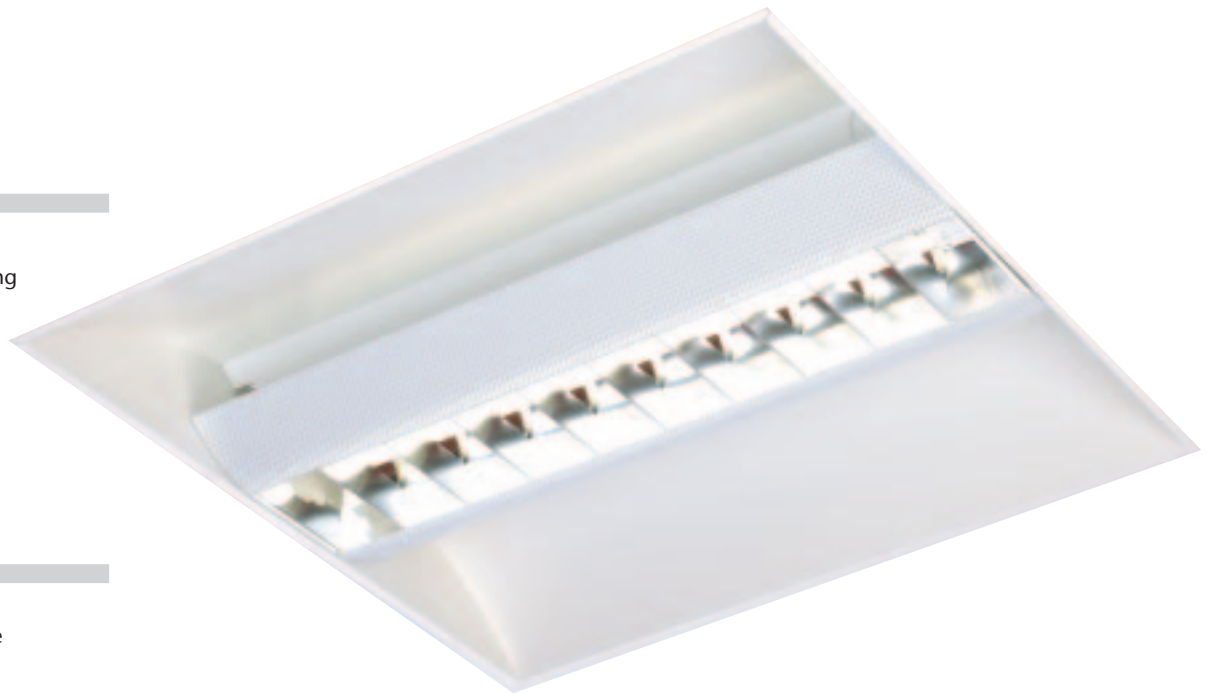
- Offices
- Ambient retail lighting
- Schools
- Hospitals
- Reception areas
- Conference rooms
- Corridors

SPECIFICATION

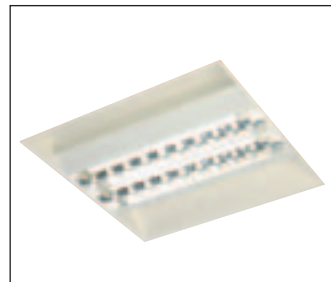
- Lamp options:
 - in a single cell louvre
 - 2 x 24W T5
 - 1 x 40W TC-L
 - 1 x 55W TC-L
 - in a twin cell louvre
 - 4 x 14W T5
 - 2 x 40W TC-L
 - 2 x 55W TC-L
- Optic incorporates a MIRO 5 zero iridescent semi-specular louvre mounted between perforated gull wings
- 2 x 24W, 1 x 40W and 1 x 55W MIRO 5 louvred options comply with Cat 2.1000 and the 4 x 14W and 2 x 40W with Cat 2.1500
- All the above lamp options are also available with lamps concealed behind a micro perforated diffuser
- Designed to rest above 15 and 25mm exposed T ceilings
- Fully flanged rolled body with end plates tightly jointed for a rigid construction, finished White
- High frequency or high frequency dimming gear as standard
- Supplied less lamps

Options

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



Cascade micro perforated diffuser



Cascade twin cell louvre

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Recessed fluorescent: Architectural luminaire

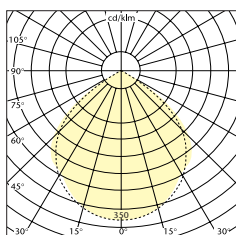
PHOTOMETRY

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MIRO 5 LOUVRE
4 x 14W T5 Lamps



- LOR = 72.6%
- SHR MAX = 1.58



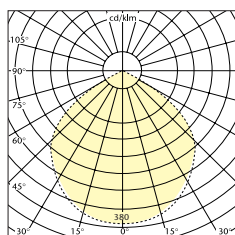
UTILISATION FACTORS UF(F)			SHR NOM=1.50									
Room Reflectance	Room Index											
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.52	0.58	0.63	0.66	0.70	0.73	0.75	0.77	0.78	
0.50	0.30	0.20	0.47	0.53	0.58	0.61	0.65	0.68	0.70	0.72	0.74	
0.00	0.00	0.00	0.42	0.48	0.52	0.55	0.59	0.62	0.64	0.66	0.67	

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MIRO 5 LOUVRE
2 x 24W T5 Lamps



- LOR = 77.7%
- SHR MAX = 1.57



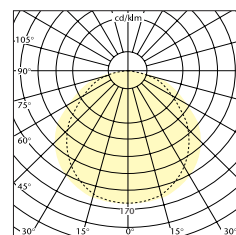
UTILISATION FACTORS UF(F)			SHR NOM=1.50									
Room Reflectance	Room Index											
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.54	0.61	0.66	0.70	0.74	0.77	0.79	0.82	0.84	
0.50	0.30	0.20	0.49	0.55	0.61	0.64	0.69	0.72	0.74	0.77	0.79	
0.00	0.00	0.00	0.44	0.50	0.55	0.58	0.63	0.66	0.67	0.70	0.71	

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MICRO PERFORATED
1 x 55W TC-L Lamp



- LOR = 47%
- SHR MAX = 1.66



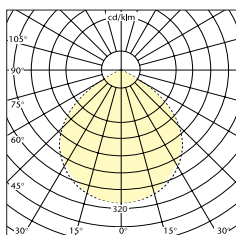
UTILISATION FACTORS UF(F)			SHR NOM=1.50									
Room Reflectance	Room Index											
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.28	0.32	0.36	0.38	0.42	0.44	0.46	0.48	0.49	
0.50	0.30	0.20	0.24	0.28	0.32	0.34	0.38	0.40	0.42	0.44	0.46	
0.00	0.00	0.00	0.21	0.24	0.28	0.30	0.34	0.36	0.37	0.40	0.41	

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MIRO 5 LOUVRE
1 x 55W TC-L Lamp



- LOR = 65.8%
- SHR MAX = 1.57



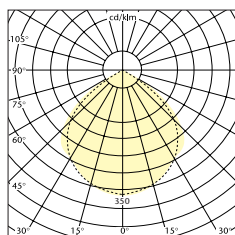
UTILISATION FACTORS UF(F)			SHR NOM=1.50									
Room Reflectance	Room Index											
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.47	0.52	0.57	0.60	0.63	0.66	0.67	0.70	0.71	
0.50	0.30	0.20	0.42	0.48	0.52	0.55	0.59	0.61	0.63	0.65	0.67	
0.00	0.00	0.00	0.38	0.43	0.47	0.50	0.54	0.56	0.57	0.59	0.61	

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MIRO 5 LOUVRE
2 x 55W TC-L Lamps



- LOR = 68.8%
- SHR MAX = 1.55



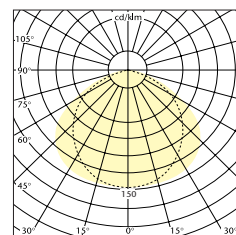
UTILISATION FACTORS UF(F)			SHR NOM=1.50									
Room Reflectance	Room Index											
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.50	0.56	0.60	0.63	0.67	0.69	0.71	0.73	0.74	
0.50	0.30	0.20	0.45	0.51	0.55	0.58	0.62	0.65	0.67	0.69	0.70	
0.00	0.00	0.00	0.41	0.46	0.51	0.53	0.57	0.59	0.61	0.63	0.64	

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MICRO PERFORATED
2 x 55W TC-L Lamps



- LOR = 42%
- SHR MAX = 1.74

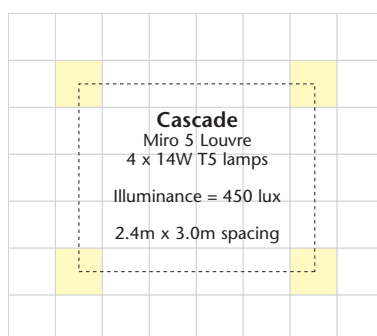


UTILISATION FACTORS UF(F)			SHR NOM=1.50									
Room Reflectance	Room Index											
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.26	0.29	0.33	0.35	0.39	0.40	0.41	0.43	0.44	
0.50	0.30	0.20	0.22	0.26	0.29	0.31	0.34	0.37	0.38	0.40	0.41	
0.00	0.00	0.00	0.19	0.22	0.26	0.28	0.31	0.33	0.34	0.36	0.37	

LAMP PERFORMANCE MATRIX

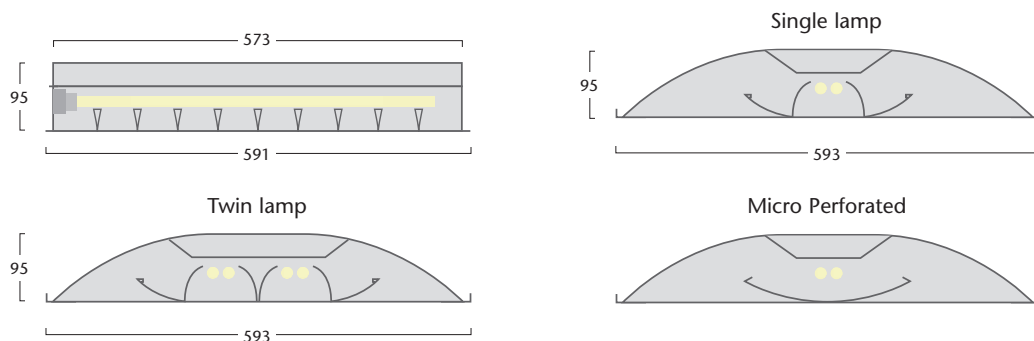
WATTAGE	IL@25°C	LAMP LIFE
1 x 14W T5	1200	20,000
1 x 24W T5	1750	
1 x 40W TC-L	3500	10,000
1 x 55W TC-L	4800	10,000

PERFORMANCE GUIDE



Maintenance	0.8
Reflectance	70/50/20
Ceiling Height	2.7m
Working Plane	0.8m

DIMENSIONS



ORDER CODES – CASCADE

T5/TC-L RECESSED ARCHITECTURAL LUMINAIRE

PART CODES COVER MIRO 5 LOUVRED OPTIONS

SUPPLIED LESS LAMP	HIGH FREQUENCY		HIGH FREQUENCY ANALOGUE DIMMING	
	STANDARD	EMERGENCY	STANDARD	EMERGENCY
4 x 14W T5	CSDWH414	CSDWH414EMIN	CSDWR414	CSDWR414EMIN
2 x 24W T5	CSDWH224	CSDWH224EMIN	CSDWR224	CSDWR224EMIN
1 x 40W TC-L	CSDWH140	CSDWH140EMIN	CSDWR140	CSDWR140EMIN
2 x 40W TC-L	CSDWH240	CSDWH240EMIN	CSDWR240	CSDWR240EMIN
1 x 55W TC-L	CSDWH155	CSDWH155EMIN	CSDWR155	CSDWR155EMIN
2 x 55W TC-L	CSDWH255	CSDWH255EMIN	CSDWR255	CSDWR255EMIN

MICRO PERFORATED DIFFUSER Substitute W with P in order code

P Micro-perforated diffuser, i.e. **CSDPH414**

COMMAND 3  Substitute H with C in order code (louvred versions only)

C To incorporate the fully automated Command absence and light sensing module, i.e. **CSDWC414**

EASYTEST OPTION Add suffix to order codes above

/ET  Integral self autotest, i.e. **CSDPH414/ET**

To specify state:

Recessed architectural luminaire to suit 4 x 14W, 2 x 24W T5 and 1/2 x 40/55W TC-L lamps. Fully flanged and jointed rigid body finished White with semi-specular MIRO 5 louvre mounted in perforated gull wings complying with LG3 2.1000 brightness limits on 2 x 24 and 1 x 40/55W and 2.1500 brightness limits on 4 x 14 and 2 x 40W (or micro-perforated diffuser with concealed lamps) – as Whitecroft Lighting CASCADE