Cascade *T5/TC-L*

MOTIVATION

Cascade is designed to satisfy LG3:2001 brightness limits while both injecting life into the ceiling plane and maintaining a clean ceiling line. The highly efficient optical system designed around T5 and TC-L lamps combined with an affordable first cost delivers a low cost of ownership while relieving the cave effect associated with traditional Cat 2 solutions

Cascade CSDWH224

Cascade Micro Perforated Diffuser

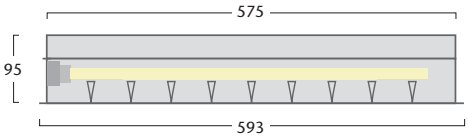
APPLICATION

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

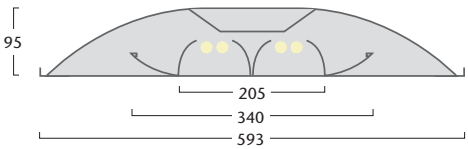
SPECIFICATION

- To suit 2 x 24W T5 or 1 x 40 or 55W TC-L (single cell louvre) 4 x 14W T5 and 2 x 40 or 55W TC-L (twin cell louvre)
- Optic incorporates a Miro 5 zero iridescent semi specular louvre mounted between perforated gull wings
- 2 x 24W, 1 x 40 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 to RAL 9003, 5% gloss
- High frequency or regulating gear as standard
- Supplied less lamps
- Options include:
  - 3 hour integral maintained emergency
  - COMET (Command emergency test)
  - Easytest
  - Command 3 absence detecting and light sensing (dimming gear only)

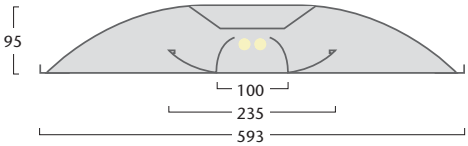
DIMENSIONS



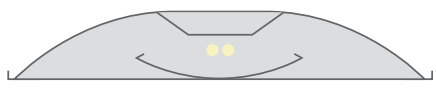
Twin lamp



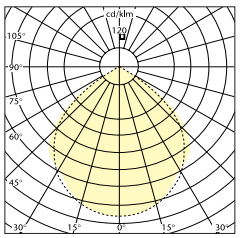
Single lamp



Micro Perforated



Cascade
MIRO 5 LOUVRE
4 x 14W T5 Lamp



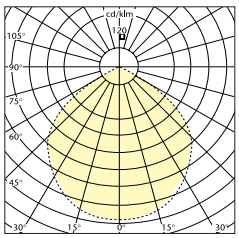
- LOR = 0.726
- SHR MAX = 1.58

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

Cascade
MIRO 5 LOUVRE
2 x 24W T5 Lamp



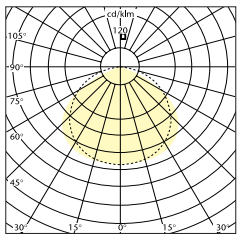
- LOR = 0.777
- SHR MAX = 1.57

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

Cascade
MICRO-PERFORATED
OPTIC
4 x 14W T5 Lamp



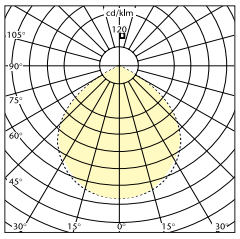
- LOR = 0.351
- SHR MAX = 1.76

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	0.25	0.28	0.30	0.32	0.34	0.35	0.36	0.37
0.50	0.30	0.20	N/A	0.23	0.25	0.27	0.29	0.31	0.32	0.34	0.35
0.00	0.00	0.00	N/A	0.20	0.22	0.24	0.26	0.28	0.29	0.30	0.32

Cascade
MIRO 5 LOUVRE
1 x 55W TC-L Lamp



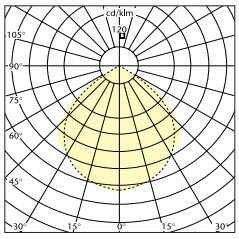
- LOR = 0.658
- SHR MAX = 1.57

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

Cascade
MIRO 5 LOUVRE
2 x 55W TC-L Lamp



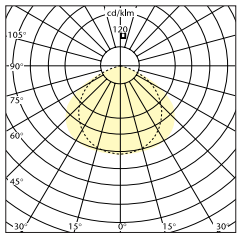
- LOR = 0.688
- SHR MAX = 1.55

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

Cascade
MICRO-PERFORATED
OPTIC
2 x 55W TC-L Lamp



- LOR = 0.319
- 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	0.19	0.22	0.25	0.26	0.29	0.30	0.31	0.33	0.33
0.50	0.30	0.20	0.17	0.19	0.22	0.24	0.26	0.28	0.29	0.30	0.31
0.00	0.00	0.00	0.14	0.17	0.19	0.21	0.23	0.25	0.26	0.27	0.28

LAMP PERFORMANCE MATRIX

WATTAGE	IL@25°C	TOTAL CIRCUIT WATTS	LUMENS PER CIRCUIT WATT	LAMP LIFE TO 50% FAILURE
4 x 14W T5	4800	66	72.7	20,000
2 x 24W T5	3500	51	68.6	
1 x 40W TC-L	3500	45	77.8	
2 x 40W TC-L	7000	89	78.7	
1 x 55W TC-L	4800	58	82.8	
2 x 55W TC-L	9600	116	82.8	

Note *Recommended scheduled lamp replacement is at 80% of rated life = 16000 hours.*

Cascade

ORDER CODES

T5/TC-L RECESSED ARCHITECTURAL LUMINAIRE

PART CODES COVER MIRO 5 LOUVRED OPTIONS

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

MICRO PERFORATED DIFFUSER *Substitute **W** with **P** in part code*

P Micro-perforated diffuser e.g. *CSDPH414*

COMMAND 3 *Substitute **H** with **C** in part code*

C To incorporate the fully automated Command absence and light sensing module e.g. *CSDPC414*

EASYTEST OPTION *Replace **EMIN** in the order codes above with **ET***

/ET Integral self autotest e.g. *CSDPH414/ET*

COMET *Fully automated Command Emergency Test System. Details on request.*

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 to RAL9003 5% gloss 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.

Whitecroft lighting
Lighting for Life

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