



suspended



powerbay CX 80



echo 280 LED 82



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penna 110



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vector 118



inspiration 120



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buuze 124



aerial 126

pendant

suspended

Optics

- Light Output Options:
 - 11,500 lumens (137W*)
- *Total power consumption including driver based on 6000K light engine
- Open area and aisle distribution patterns available
- Supplied with Acrylic (PMMA) lens
- Available in 4300K & 6000K
- 100,000 hour life expectancy
- IP66 rated as standard / IP54 with integral sensor
- Suitable for mounting heights above 4m

Body

- Low profile cast aluminium body finished light grey
- Operating temperature from -40°C to +65°C
- Mounting brackets available for ceiling and wall mounting to be ordered separately
- Available with a wide range of attachments
- Optional Command 7 integral sensor for on/off switching. Suitable for up to 15m mounting height (not for use with attachments)
- Supplied with a 3M PVC cable

Order Codes

Powerbay CX

11,500 lumens 6000K – Open Area Distribution
11,500 lumens 6000K – Aisle Distribution

Fixed Output

PCXAH6KC
PCXAH6KA

Accessories

Close Coupler Bracket
Ceiling and wall Mounting Bracket
Wire Suspension Kit
Clear Refractor*
Feature Ring*
Feature Ring inner disc**
Integral detector remote control

PCXCCB
PCXWMB
PCXWSUSKIT
PCXCBB
PCXFR
PCXID
PCXRC

Options

4300K COLOUR TEMP	Replace 6 with 4	i.e. PCXAH4KC
1-10V DIMMING	Replace H with R	i.e. PCXAR6KC
INTEGRAL SENSOR	Insert Q7 after A	i.e. PCXAQ7R6KC

*Requires wire suspension kit

**Requires feature ring



Body Only

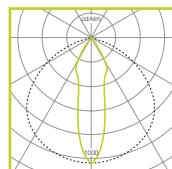


Feature Ring

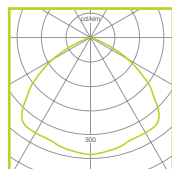


Ceiling and Wall Mounting Bracket

Photometric Performance



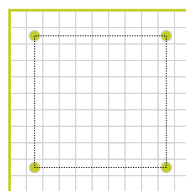
Powerbay CX elliptical distribution
• LOR = 100%



Powerbay CX symmetrical distribution
• LOR = 100%

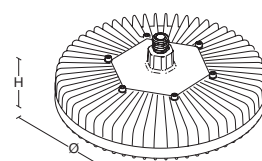
Performance Guide

Lamps	Illuminance	Spacing
11,500 lumens	350 lux	4.0m x 4.0m



Maintenance: 0.8
Reflectance: 70/50/20
Ceiling Height: 10.0m
Working Plane: 0.0m

Dimensions



Ø	H	KG
406	125	8.2

To Specify

IP66 11,500 lumen circular high bay luminaire. Cast aluminium body finished grey with PMMA acrylic lens and open area / aisle light distribution pattern – as Whitecroft Lighting POWERBAY CX





echo 280 LED

LED architectural low bay luminaire



Optics

- LED Options (4000K only)
 - 1,500 lumens – 16 LEDs running at 350mA = 18W system power
 - 4,000 lumens – 25 LEDs running at 700Ma = 55W system power
- High quality single bin LEDs
- 50,000 hour life expectancy
- Clear, opal and metalised prismatic refractor or metal reflector options

Body

- Aluminium spun housing integrating an extruded aluminium heat sink
- Simple screw removal allows access to the gear housing for efficient installation and maintenance
- Body supplied complete with an adjustable twin wire suspension kit (up to 3.0m drop)
- 3 point key holes allow for rapid onsite assembly of the body and reflector / refractor
- Body and reflector / refractor to be ordered separately
- Finished in grey
- DALI and emergency luminaires supplied with ceiling suspension kit as standard (can be ordered separately for non emergency/DALI luminaires)

Order Codes

Echo 280 LED – 1500 lumens	Fixed Output	3 hr Emergency
Echo 280 LED - 4000K	EC280-H154KG	–

Echo 280 LED – 4000 lumens		
Echo 280 LED - 4000K	EC280-H404KG	EC280-H404KGEM

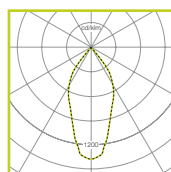
Accessories

Clear Refractor	EC30
Part Metalised Refractor	EC30PRTMET
Metal Reflector	EC30REFLC
Opal Reflector	EC30PAL
Ceiling Rose Kit	EC70CEILKIT

Options

DALI DIMMING	Replace H with Y	i.e. EC280-Y154KG
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Photometric Performance



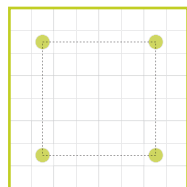
55W LED + EC30
 • LOR = 100%
 • SHR MAX = 0.92
 • 3493 lumens

Utilisation Factors UF(F)

Calculation Factors of ρ_r					
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.85	1.03	1.08

Performance Guide

Lamps	Illuminance	Spacing
4000 lumens	310 lux	3.0m x 3.0m



Maintenance: 0.8
 Reflectance: 70/50/20
 Ceiling Height: 6.0m
 Working Plane: 0.0m



Opal Prismatic Refractor



Part Metalised Prismatic Refractor



Clear Prismatic Refractor

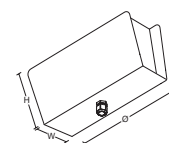
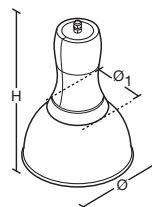


Spun Aluminium Reflector



Ceiling Suspension Kit - Emergency and DALI Luminaires (Compulsory)

Dimensions



Ø	Ø ₁	H	KG	L	W	H	KG
315	139	443	5.75	300	142	138	1.0

To Specify

Suspended architectural LED low bay luminaire utilising high quality single bin LEDs. Aluminium spun housing integrating an extruded aluminium heat sink with clear / opal / part metalised refractor or aluminium reflector – as Whitecroft Lighting ECHO 280 LED

echo 280

architectural low bay
pendant luminaire



Optics

- Lamp options:
 - 1 x 17W PL-R
 - 1 x 26W TC-T
 - 1 x 57W TC-T
 - 3 x 26W TC-T
 - 70W or 150W HIPE high output open fixture rated Venture ceramic metal halide with superior lumen maintenance
- Clear, opal and metalised prismatic refractor or metal reflector options

Body

- Two piece cast aluminium body finished grey
- Simple screw removal allows access to the gear housing for efficient installation or maintenance
- Body supplied complete with an adjustable twin wire suspension kit (up to 3.0m drop)
- 3 point key holes allow for rapid onsite assembly of the body and reflector / refractor
- Body and reflector / refractor to be ordered separately
- Ceiling rose can be used on all products but is supplied as standard with the emergency product

echo 280

Order Codes

Echo 280	Standard	3 hr Emergency
PL-R 1 x 17W	EC280-F17H	EC280-F17HEM
TC-T 1 x 26W HF	EC280-F26H	EC280-F26HEM
TC-T 1 x 57W HF	EC280-F57H	-
TC-T 3 x 26W HF	EC280-F326H	EC280-F326HEM
HIPE 1 x 70W	EC280-C70H	-
HIPE 1 x 150W	EC280-C150H	-

Accessories

Clear Refractor	EC30
Part Metalised Refractor	EC30PRTMET
Metal Reflector	EC30REFLC
Opal Refractor	EC30PAL
Ceiling Rose Kit	EC80CEILKIT

Options

DALI DIMMING	Replace H with Y	i.e. EC280-F17Y
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Note: Dimming versions not available with HIPE 1 x 70W / 1 x 150W
Ceiling rose kit is supplied as standard with emergency products



Opal Prismatic Refractor



Part Metalised Prismatic Refractor



Clear Prismatic Refractor



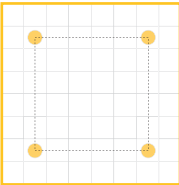
Metal Reflector



Ceiling Suspension Kit

Performance Guide

Lamps	Illuminance	Spacing
3 x 26W TC-T	275 lux	3.0m x 3.0m

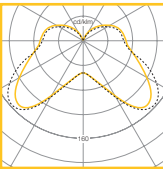


Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
6.0m
Working Plane:
0.0m

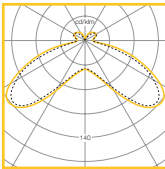
Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 17W PL-R	1250	24,000hrs
1 x 26W TC-T	1800	13,000hrs
1 x 57W TC-T	4300	13,000hrs
1 x 70W HIPE	5000	15,000hrs
1 x 150W HIPE	12600	15,000hrs

Photometric Performance



3 x 26W TC-T
Clear Prismatic
Refractor
• LOR = 93.4%
• SHR MAX = 2.69



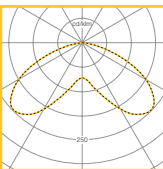
3 x 26W TC-T
Part Metalised
Refractor
• LOR = 80.5%
• SHR MAX = 1.33

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.45 0.73 0.82

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.42 0.69 0.77

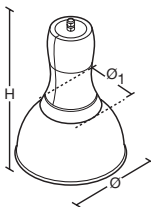


3 x 26W TC-T
Metal Reflector
• LOR = 83.1%
• SHR MAX = 2.69

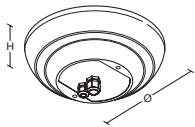
Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.48 0.77 0.84

Dimensions



Ø	Ø1	H	KG	KG
315	180	442	3.8	5.3



Ø	H	KG
255	100	1.0

To Specify

Suspended architectural low bay luminaire with two piece extruded aluminium gear housing, with clear /opal / part metalised refractor or aluminium reflector – as Whitecroft Lighting ECHO 280

echo 380

suspended architectural
high bay luminaire



Optics

- Lamp options:
 - 4 x 42W TC-T
 - 250W or 400W high output open fixture rated Venture ceramic metal halide with superior lumen maintenance
- Clear and metalised prismatic refractor or metal reflector options

Body

- Two piece cast aluminium housing finished grey
- Pre-wired GST18 i5 socket is integrated within the top of the body and supplied with GST18 i5 plug as standard for efficient installation
- Body supplied complete with an adjustable twin wire suspension kit (up to 3.0m drop)
- 3 point key holes allow for rapid onsite assembly of the body and reflector / refractor
- Optional spun steel ceiling rose finished grey
- Body and reflector / refractor to be ordered separately

echo 380

Order Codes

Echo 380	Standard	3 hr Emergency
TC-T 4 X 42W HF	EC380-F442H	EC380-F442HEM
HQI-E 1 X 250W	EC380-250V	-
HQI-E 1 X 400W	EC380-400V	-

Accessories

417mm Ø Clear Refractor	EC40
570mm Ø Clear Refractor	EC50
570mm Ø Part Metalised Refractor	EC50PRTMET
417mm Ø Metal Reflector	EC40REFLC
Ceiling Rose Kit (optional)	EC80CEILKIT

Options (4x42W Only)

DALI DIMMING	Replace H with Y	i.e. EC380-F442Y
SWITCH DIMMING	Replace H with X	i.e. EC380-F442X
COMEPS	Add suffix /EP	i.e. EC380-F442H/EP
EASYTEST	Add suffix /ET	i.e. EC380-F442H/ET
COMET	Add suffix /CT	i.e. EC380-F442H/CT



Part Metalised Prismatic Refractor



Metal Reflector

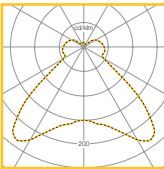


Clear Prismatic Refractor



Ceiling Suspension Kit (Optional)

Photometric Performance



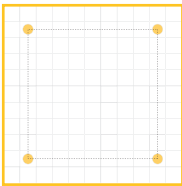
4 x 42W TC-T
Clear Prismatic
Refractor
• LOR = 79.4%
• SHR MAX = 2.14

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.48	0.69	0.75

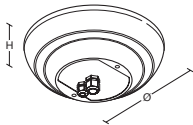
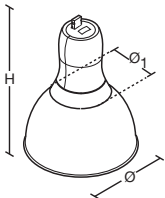
Performance Guide

Lamps	Illuminance	Spacing
4 x 42W TC-T	330 lux	4.0m x 4.0m



Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
10.0m
Working Plane:
0.0m

Dimensions



With EC50 refractor							Ø	H	KG
Version	Ø	Ø ₁	H	KG	KG ₂	KG ₃	255	100	1.0
4 x 42W	570	304	700	7.1	7.8				
250/400W	570	304	700	12.4	-				
With EC40 refractor									
Version	Ø	Ø ₁	H	KG	KG ₂	KG ₃			
4 x 42W	417	304	637	7	7.2				
250/400W	417	304	637	12	-				

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 42W TC-T	3200	13,000hrs
1 x 250W HIPE	23500	15,000hrs
1 x 400W HIPE	40000	20,000hrs

To Specify

Suspended architectural high bay with cast aluminium gear housing and clear prismatic / part metalised refractor or aluminium reflector. Supplied with pre-wired GST18 i5 socket mounted in the housing – as Whitecroft Lighting ECHO 380



Optics

- Light output options:
 - 4000 Kelvin 'cool white' colour temperature
- High quality, single bin LEDs with a 4 MacAdam ellipse tolerance
- Polycarbonate opal diffuser
- 50,000 hours life expectancy
- Up to 80 luminaire lumens per circuit watt

Body

- 300mm or 400mm diameter bodies in cast aluminium with injection moulded base
- Finished in white or silver
- IP40
- Choice of integrated emergency options:
 - 3 hour emergency
 - EasyTest
 - COMEPS
- Optional Command 5 microwave detector mounted behind the diffuser that can be set to one of two configurations;
 - Microwave presence detection with ON/OFF operation
 - Microwave presence detection with High/Low/Off set-back functionality. Can be set to switch from 100% down to set-back position of 50%, 30%, 20%, 10% or OFF
- Optional trim ring available for an alternative aesthetic finish
- Product also available in a surface version, see page 170

Order Codes

300mm 4K Silver	Fixed Output	3 hr Emergency
8W*	K4H364KS	K4H364KSEM
18W*	K4H3124KS	K4H3124KSEM

400mm 4K Silver	Fixed Output	3 hr Emergency
24W*	K4H4154KS	K4H4154KSEM
34W*	K4H4204KS	K4H4204KSEM

Accessories

Trim ring 300mm silver	KLTR300S
Trim ring 400mm silver	KLTR400S
Suspension kit	KLSUSKIT

Options

DALI DIMMING	Replace H with Y	i.e. K4Y364KS
EASYTEST	Add suffix /ET	i.e. K4H364KS/ET
COMEPS	Add suffix /EP	i.e. K4H364KS/EP
COMMAND 5**	Replace H with Q5	i.e. K4Q5364KS
WHITE FINISH	Replace S with W	i.e. K4H364KW

**Note: Command 5 set-back functionality not available in 300mm emergency products

*Available for delivery from January 2013. Typically 70-80 LL/W, please consult website for precise lumen output.



Without Trim Ring



400mm Diameter

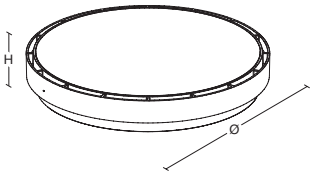


300mm Diameter

LED Performance

Colour Temp	Ra (CRI)	Life Expectancy	Colour Consistency
4000K	≥ 80	L ₇₀ (50,000hrs)	MacAdam 4 SDCM

Dimensions



Version	Ø	H	KG	KG
300mm suspended	300	95	2.1	2.5
400mm suspended	400	95	3.5	3.9

To Specify

Suspended circular IP40 LED luminaire in 300 or 400mm diameter. Polycarbonate opal diffuser. Optional integrated microwave presence detector with ON/OFF or set-back functionality – as Whitecroft Lighting KOLO



convor suspended

high output
circular pendant



Optics

- Lamp options:
 - 4 x 26W TC-D
 - 1 x 60W T5-C
 - 4 x 17W PLR-ECO
- Micro polymer diffuser option in polycarbonate for applications where impact resistance is important

Body

- Two part spun steel body finished silver and injection moulded gear tray, providing thermal management
- IP40
- Optional extruded and rolled aluminium bezel
- Optional acrylic feature ring available
- Suspension by 3 wire suspension kit supplied separately. Adjustable drop to 3m
- Integral emergency versions due to superior thermal management construction
- Optional Command 5 microwave sensor available mounted behind the diffuser for on/off operation

Order Codes

Convor	HF Gear	3 hr Emergency
TC-D 4 x 26W	CNVAH426	CNVAH426EM
T5-C 1 x 60W	CNVAH160	CNVAH160EM
PLR-ECO 4 x 17W	CNVAH417	CNVAH417EM

Options

DALI DIMMING	Replace H with Y	i.e. CNVAY426
SWITCH DIMMING*	Replace H with X	i.e. CNVAX426
COMMAND 5**	Add Q5 after CNVA	i.e. CNVA Q5 H426
EASYTEST*	Add suffix /ET	i.e. CNVAH426/ ET DALI
COMEPS*	Add suffix /EP	i.e. CNVAH426/ EP
COMET	Add suffix /CT	i.e. CNVAH426/ CT
SUSPENSION KIT		CNVSUSKIT
POLYCARBONATE DIFFUSER	Replace A with P	CNVP426
FEATURE RING		CNVFR
ALUMINIUM BEZEL		CNVBEZ

*Not available for T5-C 1 x 60W

**Command 5 is only available with HF gear.



Feature Ring



Extruded Aluminium Bezel

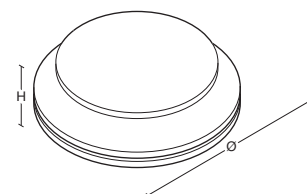


Standard Bezel

Lamp Performance

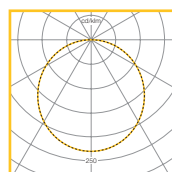
Wattage	IL@25°C	Lamp Life
1 x 26W TC-D	1800	13,000hrs
1 x 60W T5-C	5000	12,000hrs
1 x 17W PLR-ECO	1250	19,000hrs

Dimensions



Version	Ø	H	KG	KG ☐
Standard	538	168	7.9	8.9
Bezel	596	168	8.4	9.4
Feature ring	680	168	8.1	9.1

Photometric Performance



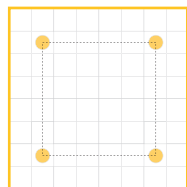
4 x 26W TC-D
• LOR = 73.7%
• SHR MAX = 1.67

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.47 0.68 0.74

Performance Guide

Lamps	Illuminance	Spacing
4 x 26W TC-D	520 lux	3.0m x 3.0m



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

To Specify

High output circular IP40 luminaire with micro polymer diffuser in acrylic or polycarbonate. Two part body with thermal management to allow integral self contained emergency option – as Whitcroft Lighting CONVOR



Optics

- Lamp options:
 - 250W or 400W high output open fixture rated Venture metal halide with superior lumen maintenance
 - 4 x 42W TC-T high frequency gear or dimming

Body

- Four piece extruded aluminium housing
- Silver grey polyester powder paint finish
- Fixing bracket suitable for hook, 20mm conduit or BESA fix
- Optional adjustable suspension kit available (3m max)
- High ambient temperature operation up to 40°C
- Pre-wired panel mounted socket integrated within top of body and supplied with plug as standard for efficient installation

Order Codes

Atlanta	Gear Box	3 hr Emergency
HQI-E 1 x 250W	AT250V-1	–
HQI-E 1 x 250W (250W TH Auxillary)	AT250VX1	–
HQI-E 1 x 400W	AT400V-1	–
HQI-E 1 x 400W (250W TH Auxillary)	AT400VX1	–
TC-T 4 x 42W HF	AT442F-1	AT442F-1EMIN
TC-T 4 x 42W DALI	AT442F-1Y	AT442F-1YEMIN
OTC-T 4 x 42W Switch dim	AT442F-1X	AT442F-1XEMIN

Options

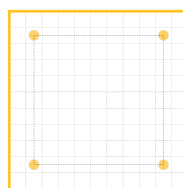
EASYTEST (4 X 42W ONLY)	Add suffix /ET	i.e. AT442F-1/ET
COMEPS	Add suffix /EP	i.e. AT442F-1/EP
COMET (4 X 42W ONLY)	Add suffix /CT	i.e. AT442F-1/CT
METAL REFLECTOR 417mm Ø		AT45
ACRYLIC REFRACTOR 417mm Ø		AT40
ACRYLIC REFRACTOR 570mm Ø		AT50
3M SUSPENSION KIT		ATSUSKIT



Metal Reflector

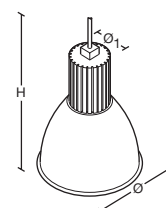
Performance Guide

Lamps	Illuminance	Spacing
4 x 42W TC-T	330 lux	4.0m x 4.0m



Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
10.0m
Working Plane:
0.0m

Dimensions

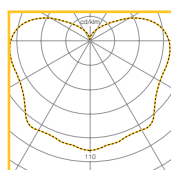


Version	Ø	Ø ₁	H	KG	KG
AT40/45	417	206	558	*	**
AT50	570	206	622	*	**

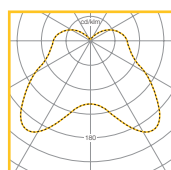
*Maximum weight 8.5KG

**Emergency option only available for 4 x 42W TC-T version

Photometric Performance



1 x 400W HQI-E
Acrylic Refractor
• LOR = 83.4%
• SHR MAX = 1.79



4 x 42W TC-T
Acrylic Refractor
• LOR = 87.8%
• SHR MAX = 2.32

Utilisation Factors UF(F)

Room Reflectance	Room Index				
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.43	0.64	0.72

Utilisation Factors UF(F)

Room Reflectance	Room Index				
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.47	0.72	0.80

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 42W TC-T	3200	13,000hrs
1 x 250W HQI-E	23500	20,000hrs
1 x 400W HQI-E	40000	20,000hrs

To Specify

Suspended architectural high bay with extruded aluminium gear housing and aluminium/acrylic refractor – as Whitecroft Lighting ATLANTA

atlanta junior

fluorescent and HID
architectural low bay



Optics

- Lamp options:
 - 57W TC-T
 - 70W CDM-T
 - 150W CDM-T

Body

- One piece extruded aluminium housing finished silver grey
- U bracket suitable for hook or 20mm conduit option as standard
- Optional adjustable suspension kit available (3m max)
- Rapid installation
- Ambient temperature operation up to 30°C
- 315mm Ø opal or clear prismatic acrylic refractor
- 315mm Ø spun aluminium reflector with etched inner surface

Order Codes

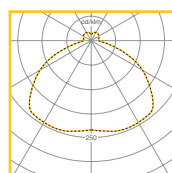
Atlanta Junior	Clear Refractor	Aluminium Reflector	Opal Refractor
TC-T 1 x 57W	ATJ30-F57-1	ATJ35-F57-1	ATJ32-F57-1
CDM-T 1 x 70W	ATJ30-C70-1	ATJ35-C70-1	ATJ32-C70-1
CDM-T 1 x 150W	ATJ30-C150-1	ATJ35-C150-1	ATJ32-C150-1

Options

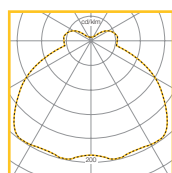
DALI DIMMING*	Insert Y after 57	i.e. ATJ35-F57Y-1
3HR EMERGENCY*	Add suffix /EMIN	i.e. ATJ30-F57-1/EMIN
3M SUSPENSION KIT		ATJSUSKIT

*Only available on TC-T 1 x 57W

Photometric Performance



- 1 x 57W TC-T
Opal Refractor
- LOR = 90.4%
 - SHR MAX = 1.93



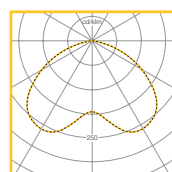
- 1 x 57W TC-T
Clear Refractor
- LOR = 94.0%
 - SHR MAX = 1.92

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.59 0.83 0.90

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.59 0.83 0.90



- 1 x 57W TC-T
Aluminium Reflector
- LOR = 86.0%
 - SHR MAX = 2.18

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.54 0.82 0.89



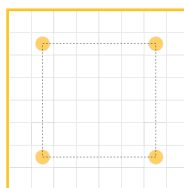
Spun Aluminium Reflector



Opal Prismatic Refractor

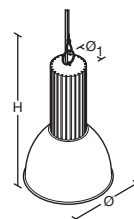
Performance Guide

Lamps	Illuminance	Spacing
1 x 57W TC-T	290 lux	3.0m x 3.0m



Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
6.0m
Working Plane:
0.0m

Dimensions



Ø	Ø ₁	H	KG	KG
315	139	443	2.0	3.8

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 57W TC-T	4300	13,000hrs
1 x 70W CDM-T	6600	12,000hrs
1 x 150W CDM-T	14000	12,000hrs

To Specify

Surface or suspended architectural low bay luminaire with extruded aluminium gear housing and either a clear or opal refractor or an aluminium reflector – as Whitecroft Lighting ATLANTA JUNIOR



Optics

- Lamp options:
 - 1 x 18W TC-D
- Circular polycarbonate diffuser
- The solid translucent polycarbonate diffuser guarantees even light dispersion and fades out the shape of the lamp

Body

- Suspended
- Maximum suspension drop 2m
- Extruded plain anodised aluminium body
- Slim anodised aluminium bracket holds a polycarbonate diffuser in which the lamp is housed

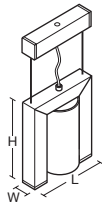


Order Codes

Buzzito Suspended
TC-D 1 X 18W

HF Gear
WACO880.42.1.20.1

Dimensions



L	Ø	H	KG
218	133	267	0.7

Photometric Performance



- 1 x 18W TC-D
- LOR = 47.9%
- SHR MAX = 1.80

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.51	0.68	0.76

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 18W TC-D	1200	13,000hrs

To Specify

Decorative pendant luminaire with an anodised aluminium body and circular polycarbonate diffuser – as Whitecroft Lighting BUZZITO SUSPENDED



Optics

- Lamp options:
 - 1 x 55W T5-C
- Opal white polypropylene shade masking the lamp image

Body

- Maximum suspension drop 2m
- 4 point adjustable wire suspension kit as standard
- Mains feed cable with ceiling rose
- IP40

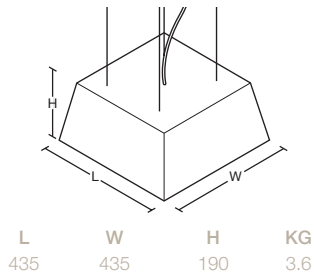


Order Codes

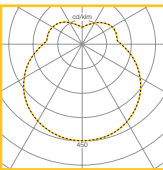
Iceberg Suspended
T5-C 1 x 55W

HF Gear
WACO903.12.2.03.1

Dimensions



Photometric Performance



- 1 x 55W T5-C
- LOR = 71.1%
- SHR MAX = 1.54

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 55W T5-C	4200	12,000hrs

To Specify

Square decorative pendant luminaire with opal polypropylene shade and 4 point wire suspension – as Whitecroft Lighting ICEBERG

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.62	0.46	0.35

The Perfect Combination

Foil offers the perfect combination of low energy and high performance.

Employing dual layer LEDs or conventional T5 optics in single or twin configurations, Foil has both up and downlighting elements for bright, even illumination of all surfaces. Designed specifically for open soffit architecture, Foil has integral acoustic tiles eliminating the need for separate acoustic panels, and can be specified with integrated electrical, fire and even heating services to aid installation and reduce ceiling clutter.





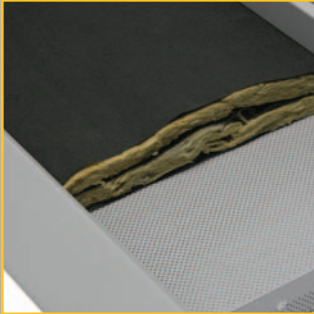
With the growing demand to reduce their carbon footprint, the design of buildings has entered a more challenging era. The overriding aim is to create the most comfortable and effective conditions possible, but with the additional emphasis on achieving environmental and economic objectives.

Current best practice in building design is to utilise the natural cooling properties of the building to deliver the lowest through-life cost. The removal of a suspended ceiling challenges the designers of building services to meet both the technical and aesthetic demands of the modern building.

Foil is a market leading lighting solution that had been developed in response to these challenges, creating a revolutionary lighting system that incorporates excellent acoustic features and allows full integration of services, including heating, sprinklers, lighting controls and audio systems. In excess of 50,000 luminaires have been supplied over the last 5 years ensuring customers maximize the benefits on offer from the natural cooling properties of their building.

foil integrated services

Integrated Acoustics



Integrated acoustic material

Foil has been designed with integrated panels filled with anechoic material to reduce reverberation times and to fully meet the most demanding requirements. Options in width and acoustic material thickness allow both technical performance and cost to be optimised.

Lighting Controls & Service Integration



Lighting controls



Integrated services

Every building is committed to reducing its carbon footprint. Lighting controls provide the best opportunity to reduce energy consumption, and Foil has been designed to incorporate integrated lighting controls.

Services previously installed behind suspended ceilings need to be concealed by other means. Foil can be pre installed with a wide range of services, including sprinkler heads, smoke detection and public address systems, reducing installation time and minimising ceiling clutter.

Heating and Acoustics



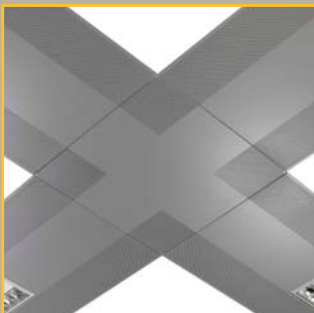
Foil radiant panel



End return

To complete the integration of services, Foil can be specified with radiant panels, adding heating to lighting and building services. This allows the architect complete flexibility in space management, with all essential services contained in a single unit.

Creative freedom



Cross connector



Mirage MX24 infill panel

A range of complimentary components have been designed to give the lighting designer more flexibility than ever when using Foil as a lighting solution. Cross, L and T connectors, feature lighting infill panels can add interest to any lighting scheme.

foil acoustic performance

The FOIL has been independently tested by SRL to accurately determine it's acoustic performance.

Empty Room:

Temperature: 16.2°C

Humidity: 55%RH

Pressure: 1008 mbar

Room with Sample:

Temperature: 16.2°C

Humidity: 55%RH

Pressure: 1008 mbar

700/800mm wide Foil with 48mm layer of Compressed Fibre acoustic material

700/800mm wide Foil with 30mm layer of Compressed Fibre acoustic material

500/600mm wide Foil with 30mm layer of Compressed Fibre acoustic material

900mm wide Radiant Foil with 48mm layer of Compressed Fibre acoustic material

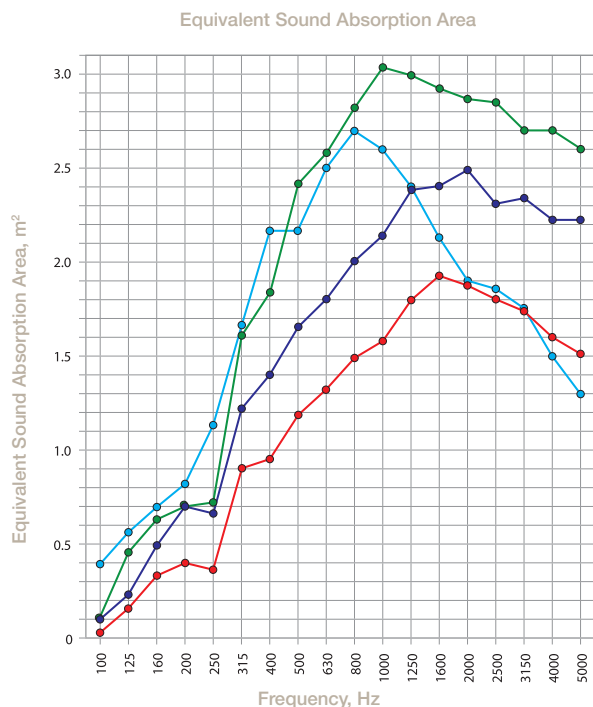
Freq Hz	T1 sec	T2 sec	Equivalent Sound Absorption Area, m ²
50*	4.59	3.99	0.4
63*	4.66	3.37	1.0
80*	3.94	3.59	0.3
100	6.17	5.83	0.1
125	6.75	5.40	0.4
160	6.46	4.83	0.6
200	6.94	4.94	0.7
250	7.03	4.98	0.7
315	6.87	3.61	1.6
400	5.92	3.13	1.8
500	5.26	2.58	2.4
630	5.12	2.46	2.6
800	5.33	2.39	2.8
1000	5.62	2.34	3.0
1250	5.56	2.34	3.0
1600	5.13	2.27	2.9
2000	4.55	2.15	2.9
2500	3.98	1.99	2.9
3150	3.33	1.81	2.7
4000	2.69	1.56	2.7
5000	2.17	1.34	2.6
6300*	1.59	1.07	2.4
8000*	1.21	0.86	2.3
10000*	0.91	0.66	2.6

Freq Hz	T1 sec	T2 sec	Equivalent Sound Absorption Area, m ²
50*	4.59	4.16	0.3
63*	4.66	2.94	1.5
80*	3.94	3.40	0.5
100	6.17	5.86	0.1
125	6.75	5.98	0.2
160	6.46	5.11	0.5
200	6.94	4.95	0.7
250	7.03	5.09	0.7
315	6.87	4.08	1.2
400	5.92	3.53	1.4
500	5.26	3.08	1.7
630	5.12	2.92	1.8
800	5.33	2.84	2.0
1000	5.62	2.82	2.1
1250	5.56	2.64	2.4
1600	5.13	2.50	2.4
2000	4.55	2.28	2.5
2500	3.98	2.15	2.3
3150	3.33	1.88	2.3
4000	2.69	1.62	2.2
5000	2.17	1.35	2.2
6300*	1.59	1.07	2.0
8000*	1.21	0.82	2.3
10000*	0.91	0.64	2.4

Freq Hz	T1 sec	T2 sec	Equivalent Sound Absorption Area, m ²
50*	4.59	4.61	-0.0
63*	4.66	3.69	0.7
80*	3.94	3.61	0.3
100	6.17	6.05	0.0
125	6.75	6.18	0.2
160	6.46	5.48	0.3
200	6.94	5.66	0.4
250	7.03	5.82	0.4
315	6.87	4.57	0.9
400	5.92	4.07	1.0
500	5.26	3.50	1.2
630	5.12	3.31	1.3
800	5.33	2.23	1.5
1000	5.62	3.24	1.6
1250	5.56	3.02	1.8
1600	5.13	2.77	1.9
2000	4.55	2.57	1.9
2500	3.98	2.35	1.8
3150	3.33	2.06	1.7
4000	2.69	1.75	1.6
5000	2.17	1.45	1.5
6300*	1.59	1.11	1.4
8000*	1.21	0.85	1.6
10000*	0.91	0.64	2.3

Freq Hz	T1 sec	T2 sec	Equivalent Sound Absorption Area, m ²
50*	6.18	6.28	-0.0
63*	4.21	3.82	0.3
80*	5.50	5.37	0.1
100	6.68	5.55	0.4
125	7.49	5.56	0.6
160	6.90	4.96	0.7
200	7.55	5.00	0.8
250	7.97	4.59	1.1
315	7.65	3.74	1.7
400	7.08	3.14	2.2
500	5.79	2.86	2.2
630	5.38	2.56	2.5
800	5.87	2.55	2.7
1000	6.29	2.69	2.6
1250	5.97	2.75	2.4
1600	5.24	2.73	2.1
2000	4.68	2.70	1.9
2500	4.02	2.48	1.8
3150	3.15	2.15	1.7
4000	2.73	1.81	1.5
5000	1.79	1.48	1.3
6300*	1.23	1.11	0.9
8000*	0.96	0.86	1.2
10000*	0.69	0.63	1.4

* Denotes frequencies outside the range covered by BS EN ISO 354:2003
T1, empty room reverberation time. T2, room reverberation time with sample
Chamber Volume 300m³
800mm suspension height
Full independent test reports available on request



- 700/800mm wide Foil with 48mm layer of Compressed Fibre acoustic material
- 700/800mm wide Foil with 30mm layer of Compressed Fibre acoustic material
- 500/600mm wide Foil with 30mm layer of Compressed Fibre acoustic material
- 900mm wide Radiant Foil with 48mm of Compressed Fibre acoustic material



Optics

- Light source options:
 - LED 4600 lumens (55W)
 - LED 7800 lumens (90W)
 - Precise pattern Hexaprism optic for all-round glare control and maximum efficiency
- Or
- 21/28/35/39/49 or 54W T5 lamps
- Twin cell louvre in semi specular zero iridescent MIRO 5 material, 'DUO' panels with a central 'Living Louvre', or hexaprism optic for maximum vertical illuminance
- Light distribution: 80% down and 20% up (70:30 with hexaprism optic). Up-light designed to give an asymmetric throw to aid vertical illuminance
- To optimise emergency performance we recommend the installation onsite of Florin E3

Body

- 0.6m or 0.8m wide, 2.2m long steel bodies painted silver or white
- Chamfered 30° luminaire body edge for a slimline appearance
- Infill panels available in 400mm, 800mm and 1200mm lengths
- Perforated side panels of luminaires and infill panels contain 30mm or 48mm acoustic absorbing material
- Twin adjustable wire suspension kits 1.5m maximum drop
- 3 segregated cable conduits. Central for luminaire control, outer for data or power
- Subject to project size and upon request luminaire infill panels can be modified to incorporate items such as speakers, smoke detectors, fire alarms, and sprinkler heads. Radiant heating panels can also be incorporated
- Optional Command Fast Link plug and play system integration for simplified installation



Order Codes

Foil LED

800 wide 30mm Acoustics

4600 lumen 55W 4000k

7800 lumen 90W 4000k

Foil Louvre

800 wide 30mm Acoustics

T5 2 x 21W

T5 2 x 28W

T5 2 x 35W

T5 2 x 39W

T5 2 x 49W

T5 2 x 54W

Foil Hexaprism

800 wide 30mm Acoustics

T5 2 x 21W

T5 2 x 28W

T5 2 x 35W

T5 2 x 39W

T5 2 x 49W

T5 2 x 54W

Foil Duo

800 wide 30mm Acoustics

T5 2 x 21W

T5 2 x 28W

T5 2 x 35W

T5 2 x 39W

T5 2 x 49W

T5 2 x 54W

T5 1 x 49W

T5 1 x 54W

HF Gear

FLL830H221S

FLL830H228S

FLL830H235S

FLL830H239S

FLL830H249S

FLL830H254S

HF Gear

FPL830H221S

FPL830H228S

FPL830H235S

FPL830H239S

FPL830H249S

FPL830H254S

HF Gear

FDL830H221S

FDL830H228S

FDL830H235S

FDL830H239S

FDL830H249S

FDL830H254S

FDL830H149S

FDL830H154S

DALI

FPA830Y40S

FPA830Y80S

3 hr Emergency

FLL830H221SEMIN

FLL830H228SEMIN

FLL830H235SEMIN

FLL830H239SEMIN

FLL830H249SEMIN

FLL830H254SEMIN

3 hr Emergency

FPL830H221SEMIN

FPL830H228SEMIN

FPL830H235SEMIN

FPL830H239SEMIN

FPL830H249SEMIN

FPL830H254SEMIN

3 hr Emergency

FDL830H221SEMIN

FDL830H228SEMIN

FDL830H235SEMIN

FDL830H239SEMIN

FDL830H249SEMIN

FDL830H254SEMIN

FDL830H149SEMIN

FDL830H154SEMIN

Order Codes (continued)

Accessories

400mm long infill, 800mm wide

FLL830INF400S

800mm long infill, 800mm wide

FLL830INF800S

1200mm long infill, 800mm wide*

FLL830INF1200S

*1200mm requires separate suspension kit

End cap 30mm acoustic absorber, 800mm wide

FLL830ECS

End cap 48mm acoustic absorber, 800mm wide

FLL848ECS

Wire Suspension Kit for one

luminaire supplied separately Full suspension assembly

FLLSUSKIT

Bracket set for one luminaire Drop rods to be supplied by others

FLLBRAKIT

Options

600mm WIDE OPTION

Replace the 8 with **6**

for rafts, infills and end caps i.e. FLL630H221S

48mm ACOUSTIC

ABSORPTION MATERIAL

Replace the 30 with **48**

i.e. FLL848H221S

WHITE FINISH

Replace S with **W**

i.e. FLL830H221W

DALI DIMMING

Replace H with **Y**

i.e. FLL830Y221S

*COMMAND 4

Replace H with **Q4Y**

i.e. FLL830Q4Y221S

*EASYTEST

Add suffix **/ET**

i.e. FLL830H221S/ET

*COMEPS

Add suffix **/EP**

i.e. FLL830H221S/EP

*COMET

Add suffix **/CT**

i.e. FLL830H221S/CT

COMAND FAST LINK

Add suffix **/CFL**

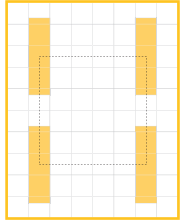
i.e. FLL830H221S/CFL

*Not available with LED luminaire

foil twin optic

Performance Guide

Lamps	Illuminance	Spacing
2 x 54W T5	530 lux	3.0m x 3.0m



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

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 21W T5	1920	24,000hrs
1 x 28W T5	2625	24,000hrs
1 x 35W T5	3325	24,000hrs
1 x 39W T5	3100	24,000hrs
1 x 49W T5	4375	24,000hrs
1 x 54W T5	4450	24,000hrs

LED Performance

Colour Temp	Ra (CRI)	Life Expectancy	Colour Consistency
4000K	≥ 80	L ₇₀ (50,000hrs)	MacAdam 4 SDCM

Equivalent Lamp Types

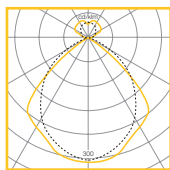
4600 Lumen Output

T5 lamp 2 x 28W

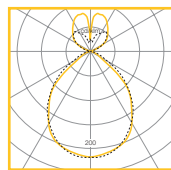
7800 Lumen Output

T5 lamp 2 x 54W

Photometric Performance



2 x 54W T5
Foil Louvre
• LOR = 77.5%
• SHR MAX = 1.65



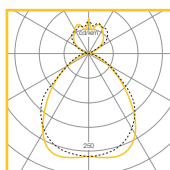
2 x 54W T5
Foil Duo
• LOR = 64.2%
• SHR MAX = 1.48

Utilisation Factors UF(F)

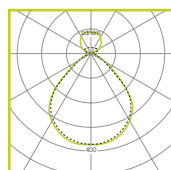
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.57	0.74	0.78

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.42	0.57	0.61



2 x 39W T5
Micro prism
• LOR = 83.4%
• SHR MAX = 1.57



55W LED
• LOR = 100%
• SHR MAX = 1.62
• 4600 lumens

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.57	0.76	0.81

Utilisation Factors UF(F)

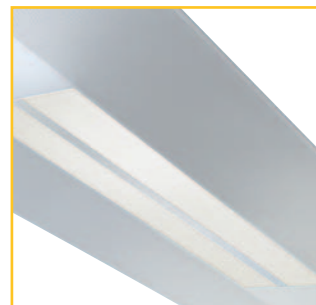
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.72	0.93	0.99



Hexaprism Optic (LED)



Louvre Optic

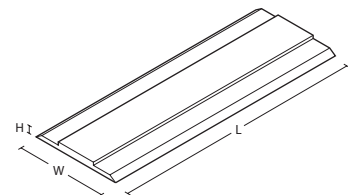


Hexaprism Optic (T5)



Duo Optic

Dimensions



Version	L	W	H	KG	KG/m²
LED 4600 Lumen	2200	800 (600)	58	26.2	-
LED 7800 Lumen	2200	800 (600)	58	26.5	-
21/39W	2200	800 (600)	58	17.3	18.3
28/54W	2200	800 (600)	58	18.3	19.3
35/49W	2200	800 (600)	58	19.3	20.3

To Specify

Suspended LED or T5 lighting, acoustic and integrated services 600 or 800mm raft with concealed 30 or 48mm thick acoustic absorbers behind perforated side panels in a shallow 30° chamfered steel body. 3 segregated 28mm x 28mm wiring channels with:

- Hexaprism LED controller
 - as Whitecroft Lighting FOIL LED
- MIRO 5 zero iridescent louvres
 - as Whitecroft Lighting FOIL LOUVRE
- Living louvre centrally mounted in micro polymer optic
 - as Whitecroft Lighting FOIL DUO
- Hexaprism Optic
 - as Whitecroft Lighting FOIL HEXAPRISM

foil twin optic radiant panels

Radiant Panels

- Acoustic and heating incorporated into one raft
- One panel is dedicated to acoustic performance containing 48mm material, whilst the radiant heating element is incorporated in the opposite panel
- Minimum additional weight to the raft
- Edge detail provides a thin appearance

Order Codes

Foil Louvre Radiant Panel	HF Gear	3 hr Emergency
T5 2 x 21W	FLR948H221S	FLR948H221SEMIN
T5 2 x 28W	FLR948H228S	FLR948H228SEMIN
T5 2 x 35W	FLR948H235S	FLR948H235SEMIN
T5 2 x 39W	FLR948H239S	FLR948H239SEMIN
T5 2 x 49W	FLR948H249S	FLR948H249SEMIN
T5 2 x 54W	FLR948H254S	FLR948H254SEMIN

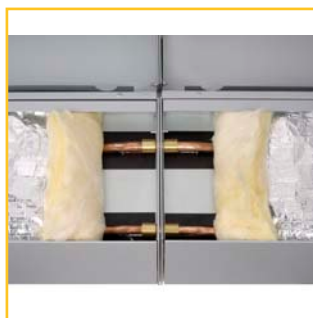
End of Row

	HF Gear	3 hr Emergency
T5 2 x 21W	FLRE948H221S	FLRE948H221SEMIN
T5 2 x 28W	FLRE948H228S	FLRE948H228SEMIN
T5 2 x 35W	FLRE948H235S	FLRE948H235SEMIN
T5 2 x 39W	FLRE948H239S	FLRE948H239SEMIN
T5 2 x 49W	FLRE948H249S	FLRE948H249SEMIN
T5 2 x 54W	FLRE948H254S	FLRE948H254SEMIN

Options

End cap 48mm acoustic absorber, 900mm wide
 MICRO PRISM OPTIC Replace L with **P**
 WHITE FINISH Replace S with **W**

FLR948ECS
 i.e. FPR948H221S
 i.e. FLR948H221W

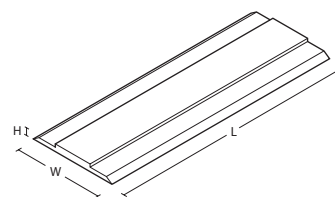


Through Connection



End Return

Dimensions



Version	L	W	H	KG	KG 
21/39W	2200	900	58	27.3	28.3
28/54W	2200	900	58	28.3	29.3
35/49W	2200	900	58	29.3	30.3

foil twin optic accessories

Corner Connectors

- Corner infill connectors provide seamless integration with the Foil luminaire
- Create continuous corner mounting formations using left and right corners, tees and cross connectors
- Perforated side panels contain 30mm or 48mm acoustic material
- Not available with the radiant panel option

Order Codes

Connector

Cross Connector

FLL830XS

Tee Connector

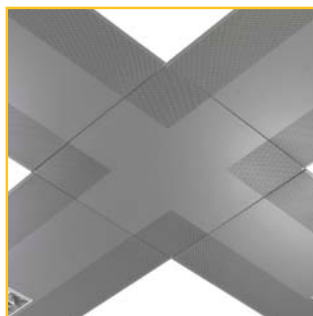
FLL830TS

Corner Connector

FLL830LS

Options

600MM WIDE OPTION	Replace the 8 with 6	i.e. FLL 6 30XS
48MM ACOUSTIC ABSORPTION MATERIAL	Replace the 30 with 48	i.e. FLL8 48 XS
WHITE FINISH	Replace S with W	i.e. FLL830 XW



Cross Connector

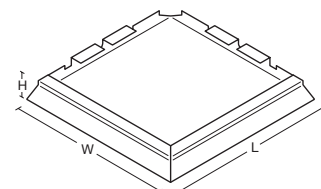


Tee Connector



Corner Connector

Dimensions



L	W	H	KG
600	600	60	4.0
800	800	60	5.5

Mirage Infill Panel

- Infills supplied with cutout apertures for integration of MX24 downlighters
- Perforated side panels containing 30mm or 48mm acoustic material
- MX24 downlight to be ordered separately



Order Codes

Mirage MX24 Infill Panel

400mm long infill, 800mm wide

FLL830INF400S/MX24

800mm long infill, 800mm wide

FLL830INF800S/MX24

1200mm long infill, 800mm wide*

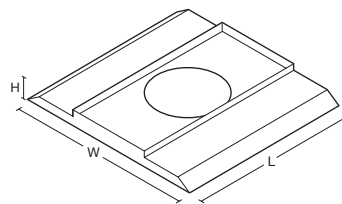
FLL830INF1200S/MX24

* 1200mm requires separate suspension kit

Options

600MM WIDE OPTION	Replace the 8 with 6	i.e. FLL 6 30INF400S/MX24
48MM ACOUSTIC ABSORPTION MATERIAL	Replace the 30 with 48	i.e. FLL8 48 INF400S/MX24
WHITE FINISH	Replace S with W	i.e. FLL830INF400 W /MX24

Dimensions



Version	L	W	H	KG
400	400	800 (600)	58	3.5 (2.9)
800	800	800 (600)	58	6.5 (5.5)
1200	1200	800 (600)	58	9.5 (8.0)

foil single optic

acoustic suspended lighting system



Optics

- Light source options:
 - LED 3000 lumens (36W)
 - LED 3500 lumens (41W)
 - LED 4800 lumens (54W)
 - LED 5700 lumens (67W)
 - Precise pattern Hexaprism optic for all-round glare control and maximum efficiency
- Or
 - 1 x 25/28, 32/35, 45/49, 50/54W, 73/80W T5 Eco/T5
 - 2 x 45/49 T5 Eco/T5
 - Single cell louvre in semi specular zero iridescent MIRO 5 material or precise pattern Hexaprism optic for all-round glare control and maximum efficiency
- Light distribution: 80% down and 20% up (70:30 with Hexaprism optic). Up-light designed to give an asymmetric throw to aid vertical illuminance

Body

- 500mm or 700mm wide, 2.2m length steel body painted silver or white
- Chamfered 30° luminaire body edge for a slim line appearance
- Infill panels in 400mm, 800mm and 1200mm lengths
- Perforated side panels of luminaire and infill panels contain either 46mm or 30mm acoustic material
- Twin adjustable wire suspension kits 1.5m maximum drop
- 2 segregated cable conduits, excluding power in conduit
- Subject to project size and upon request, luminaire infill panels can be modified to incorporate items such as speakers, smoke detectors, fire alarms, and sprinkler heads
- High frequency and DALI dimming control gears available
- Two emergency options;
 - Integrated 3 hour Emergency (T5 product only)
 - Integrated Florin E3 Emergency (LED product only)
- The integrated Florin E3 LED head optimises emergency performance and vastly reduces the parasitic energy load. Can be specified in either standard 3 hour non-maintained emergency, EasyTest, COMECS or Central Battery

Order Codes

Foil LED Hexaprism 4K

700 wide 30mm Acoustics

3000 lumen 36W

4800 lumen 54W

3500 lumen 41W

5700 lumen 67W

HF Gear

FSAH73014KS

FSAH73024KS

FSAH73034KS

FSAH73044KS

3 hr Emergency

FSAH73014KSEM

FSAH73024KSEM

FSAH73034KSEM

FSAH73044KSEM

Foil Louvre

700 wide 30mm Acoustics

T5 1 x 25/28W

T5 1 x 32/35W

T5 1 x 45/49W

T5 1 x 50/54W

T5 1 x 73/80W

T5 2 x 45/49W

HF Gear

FSL730H128S

FSL730H135S

FSL730H149S

FSL730H154S

FSL730H180S

FSL730H249S

3 hr Emergency

FSL730H128SEM

FSL730H135SEM

FSL730H149SEM

FSL730H154SEM

FSL730H180SEM

FSL730H249SEM

Foil Hexaprism

700 wide 30mm Acoustics

T5 1 x 25/28W

T5 1 x 32/35W

T5 1 x 45/49W

T5 1 x 50/54W

T5 1 x 73/80W

T5 2 x 45/49W

HF Gear

FSP730H128S

FSP730H135S

FSP730H149S

FSP730H154S

FSP730H180S

FSP730H249S

3 hr Emergency

FSP730H128SEM

FSP730H135SEM

FSP730H149SEM

FSP730H154SEM

FSP730H180SEM

FSP730H249SEM

Accessories

400mm infill

800mm infill

1200mm infill

End caps 700mm

End caps 500mm

Suspension kit

FSL730INF400S

FSL730INF800S

FSL730INF1200S

FSL730ECS

FSL530ECS

FSLSUSKIT

Options

500MM WIDE OPTION

Replace the 7 with 5

i.e. FSL530H128S

46MM ACOUSTIC

ABSORPTION MATERIAL

Replace 30 with 46

FSL746H128S

WHITE FINISH

Replace S with W

i.e. FSL730H128W

DALI DIMMING

Replace H with Y

i.e. FSL730Y128S

COMMAND 4

Replace H with Q4Y

i.e. FSL730Q4Y128S

Emergency Options

EASYTEST

Add suffix /ET

i.e. FSL730H128S/ET

COMEPS

Add suffix /EP

i.e. FSL730H128S/EP



Louvre Optic



Infill Panel

LED Performance

Colour Temp

4000K

Ra (CRI)

≥ 80

Life Expectancy

L₇₀ (50,000hrs)

Colour Consistency

MacAdam 3.5 SDCM

Equivalent Lamp Types

3000 Lumen Output

T5 lamp

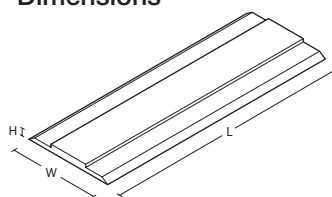
1 x 54W

4800 Lumen Output

T5 lamp

2 x 39W

Dimensions

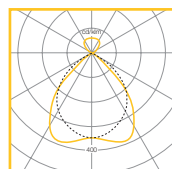


Version	L	W	H	KG	KG
500mm	2200	500	60	16	17
700mm	2200	700	60	19	20

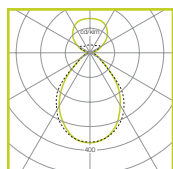
Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 25W T5 Eco	2450	24,000hrs
1 x 32W T5 Eco	3100	24,000hrs
1 x 45W T5 Eco	4100	24,000hrs
1 x 50W T5 Eco	4400	24,000hrs
1 x 73W T5 Eco	6550	24,000hrs
1 x 28W T5	2625	24,000hrs
1 x 35W T5	3325	24,000hrs
1 x 39W T5	3100	24,000hrs
1 x 49W T5	4375	24,000hrs
1 x 54W T5	4450	24,000hrs
1 x 80W T5	6550	24,000hrs

Photometric Performance



1 x 35W T5
Foil Solo
• LOR = 84.7%
• SHR MAX = 1.66



54W LED
4800 lumens
• LOR = 100%
• SHR MAX = 1.35

Utilisation Factors UF(F)

Room Reflectance	Room Index			
C	W	F	1.00	3.00
0.70	0.50	0.20	0.66	0.83
			0.87	

Utilisation Factors UF(F)

Room Reflectance	Room Index			
C	W	F	1.00	3.00
0.70	0.50	0.20	0.65	0.87
			0.93	

To Specify

Suspended LED or T5 lighting, acoustic and integrated services with concealed thick acoustic absorbers behind perforated side panels in a shallow 30° chamfered steel body. 2 segregated wiring channels with either semi specular zero iridescent MIRO 5 material louvre or hexaprism diffuser – as Whitecroft Lighting FOIL Single Optic





Optics

- Light source:
 - 7 x 2.5W LEDs with acrylic diffuser
- Available in 4000K only
- 20W total power consumption (including driver)
 - total power consumption will decrease as LED technology advances
- 50,000 hours life expectancy
- 100% downlight
- 480 lumen output

Body

- Slim extruded aluminium body with cast aluminium end caps finished in white, silver or black
- Supplied with wire suspension kit including T25 ceiling bracket, friction lock and wire (1.5m)
- For electrical connection the luminaire is supplied with transparent mains cable and ceiling cup

Driver

- Can be wired for fixed output or DALI controlled



LED Performance

Colour Temp	Ra (CRI)	Life Expectancy	Colour Consistency
4000K	≥ 80	L ₇₀ (50,000hrs)	MacAdam 5 SDCM

Order Codes

Javelin LED 4000K Optic

White
Black
Silver

DALI Dimming

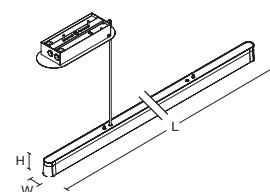
JAVY4KW
JAVY4K BK
JAVY4KS

Options

T15 ceiling tee adaptor

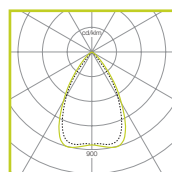
JAVT15BRK

Dimensions



L	W	H	KG
1740	36	48	2.8

Photometric Performance



4000K
480 lumens
• LOR = 100%
• SHR MAX = 1.26

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.83	1.04	1.84

To Specify

Suspended architectural LED luminaire, with 48mm depth extruded aluminium body finished in white, silver or black with acrylic diffuser and transparent mains cable – as Whitecroft Lighting JAVELIN LED



Optics

- Lamp options:
 - 1 or 2 x 28/35/49/54/80 T5
- Two optical options:
 - Louvre - Single cell louvre with satin matt metallised aluminium side and cross blades
 - Diffuser – Quadraprism optic provides all-round glare control and maximum efficiency
- Choice of light output ratios:
 - 50% down and 50% up
 - 80% down and 20% up

Body

- Individual or continuous in-line mounting
- Luminaires supplied through-wired as standard
- Sheet steel body finished in white or silver
- Injection moulded colour coded polycarbonate end caps
- Wire suspension kit to be ordered separately
- For continuous installations, continuous couplers to be ordered separately
- Infill options available from 300 – 1200mm
- Options include Command 4 sensor mounted in with the louvre or quadraprism
- Re-lamping is performed from above without removing the louvre or quadraprism





Order Codes

Penna	HF Gear	3 hr Emergency
T5 1 x 28W	PNAWH128##S	PNAWH128##SEM
T5 1 x 35W	PNAWH135##S	PNAWH135##SEM
T5 1 x 49W	PNAWH149##S	PNAWH149##SEM
T5 1 x 54W	PNAWH154##S	PNAWH154##SEM
T5 1 x 80W	PNAWH180##S	PNAWH180##SEM
T5 2 x 28W	PNAWH228##S	PNAWH228##SEM
T5 2 x 35W	PNAWH235##S	PNAWH235##SEM
T5 2 x 49W	PNAWH249##S	PNAWH249##SEM
T5 2 x 54W	PNAWH254##S	PNAWH254##SEM
T5 2 x 80W	PNAWH280##S	PNAWH280##SEM

Accessories

Wire Suspension Kit*	PNASUSKIT
End Caps in Silver (Pair)	PNAECS
100mm Continuous Coupler in Silver*****	PNACCS
300mm Infill in Silver**	PNAINF300S
600mm Infill in Silver	PNAINF600S
900mm Infill in Silver	PNAINF900S
1200mm Infill in Silver	PNAINF1200S
Dust Cover 28/54W***	PNADC4
Dust Cover 35/49W***	PNADC5

Output Variants

50% UP 50% DOWN	Replace ## with 50	i.e. PNAWH235 50 S
20% UP 80%**** DOWN	Replace ## with 80	i.e. PNAWH235 80 S

Options

DALI/SWITCH DIMMING	Replace H with Y	i.e. PNAW Y 23550S
QUADRAPRISM	Replace W with M	i.e. PNAMH23550S
COMMAND 4	Replace H with Q4Y	i.e. PNAW Q4Y H23550S
EASYTEST	Add suffix /ET	i.e. PNAWH23550S/ ET
COMEPS	Add suffix /EP	i.e. PNAWH23550S/ EP
WHITE FINISH	Replace S with W	i.e. PNAWH23550 W

* For stand-alone luminaires, two wire suspension kits must be ordered per luminaire. For continuous mounting, one suspension kit per coupler plus one for each end of row

** Each infill requires 2 continuous couplers, adding 200mm to the infill length

*** Supplied as standard with micro prism option, not suitable for 80W lamp packages

**** 20% up and 80% down output not available with Quadraprism

*****For continuous mounting each joint requires a coupler



Quadraprism Diffuser



Continuous Mounting Kit



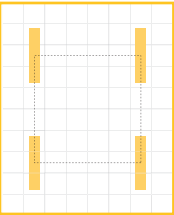
Command 4 Integration



Wire Suspension Kit

Performance Guide

Lamps	Illuminance	Spacing
2 x 35W T5	500 lux	3.0m x 3.0m

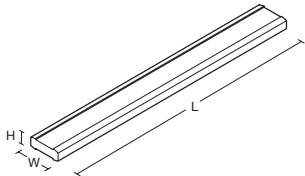


Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 X 28W T5	2625	24,000hrs
1 X 35W T5	3325	24,000hrs
1 X 49W T5	4375	24,000hrs
1 X 54W T5	4450	24,000hrs
1 X 80W T5	6550	24,000hrs

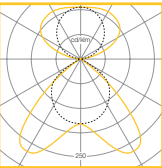
Dimensions



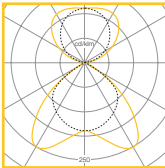
Version	L	W	H	KG	KG
1 or 2 x 28/54W	1293	140	56	2.7	3.2
1 or 2 x 35/49/80W	1593	140	56	2.9	3.5
300mm infill	500	140	56	0.6	-
600mm infill	800	140	56	1.2	-
900mm infill	1100	140	56	1.8	-
1200mm infill	1400	140	56	2.4	-

Each infill requires 2 continuous couplers, adding 200mm to the infill length

Photometric Performance



1 x 35W T5
Louvre
• LOR = 97.3%



2 x 35W T5
Louvre
• LOR = 94.7 %

To specify

Suspended architectural T5 luminaire with direct: indirect lighting ratios 50:50 or 80:20. Body to be of sheet steal with end caps colour coded with the luminaire body, supplied complete with through wiring provision – as Whitecroft Lighting PENNA



Optics

- Lamp options:
 - 1 or 2 x 28/35/49/54W T5
 - 1 x 80W T5
- Wedge blade VDT semi-specular louvre or opal acrylic diffuser
- Controlled light distribution: 80% down and 20% up

Body

- Slim depth, extruded aluminium body, painted white or silver
- Hinged steel gear tray enables easy access for maintenance
- Mounting by means of a wire suspension kit (up to 1.5m drop) or close mount bracket kit. Kits to be ordered separately
- Injection moulded polycarbonate end caps (to be ordered separately)
- Can be continuously mounted with the use of a kit (to be ordered separately). The continuous mounting caps have U shaped channels to facilitate easy through wiring
- Infill options available. Includes version with Command 4 sensor mounted in infill
- Product also available as surface version with downlight only distribution. See page 184





Order Codes

Wedge Louvre

T5 1 x 28W
T5 1 x 35W
T5 1 x 49W
T5 1 x 54W
T5 1 x 80W
T5 2 x 28W
T5 2 x 35W
T5 2 x 49W
T5 2 x 54W

HF Gear

ORPWH128W
ORPWH135W
ORPWH149W
ORPWH154W
ORPWH180W
ORPWH228W
ORPWH235W
ORPWH249W
ORPWH254W

3 hr Emergency

ORPWH128WEM
ORPWH135WEM
ORPWH149WEM
ORPWH154WEM
ORPWH180WEM
ORPWH228WEM
ORPWH235WEM
ORPWH249WEM
ORPWH254WEM

Accessories

Wire Suspension Kit***

ORPSUSKIT

Single Lamp Body

Twin Lamp Body

Close Mount Bracket Kit (150mm)

ORPSGCMB

ORPTWCMB

End Caps (Pair)

ORSGCAPW

ORTWCAPW

Continuous Mount Kit****

ORSGCMKW

ORTWCMKW

300mm Infill

ORSGINF300W

ORTWINF300W

600mm Infill

ORSGINF600W

ORTWINF600W

900mm Infill

ORSGINF900W

ORTWINF900W

1200mm Infill

ORSGINF1200W

ORTWINF1200W

1500mm Infill

ORSGINF1500W

ORTWINF1500W

Options

DALI DIMMING

Replace H with **Y**

i.e. ORPW**Y**128W

SWITCH DIMMING

Replace H with **X**

i.e. ORPW**X**128W

COMMAND 4*

Replace H with **Q4Y**

i.e. ORPW**Q4Y**128W

COMMAND 4 INFILL**

Add suffix **/Q4Y**

i.e. ORSGINF300W/**Q4Y**

EASYTEST

Add suffix **/ET**

i.e. ORPWH128W/**ET**

COMEPS

Add suffix **/EP**

i.e. ORPWH128W/**EP**

SILVER FINISH

Replace W with **S**

i.e. ORPWH128**S**

DIFFUSER

Replace W after ORP with **D**

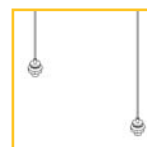
i.e. ORP**DH**128W

*A Command 4 luminaire is supplied as a single luminaire including two end caps, one of which has an integrated Command 4 sensor

**The integrated sensor infill can only be used with DALI luminaires and control one or two luminaires only

***One kit required for each luminaire and each infill 1200mm or longer

****For continuous mounting each joint requires a continuous mounting kit



Wire Suspension
ORPSUSKIT



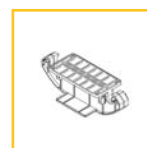
Close Mount Kit
Single ORPSGCMB
Twin ORPTWCMB



Single End Cap
ORSGCAPW



Twin End Cap
ORTWCAPW

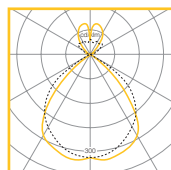


Single Continuous
Mount
ORSGCMKW

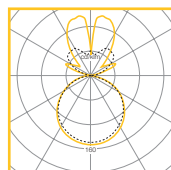


Twin Continuous
Mount
ORTWCMKW

Photometric Performance



2 x 28W T5
Wedge Louvre
• LOR = 80.6%
• SHR MAX = 1.59



2 x 28W T5
Diffuser
• LOR = 74.5 %
• SHR MAX = 1.63

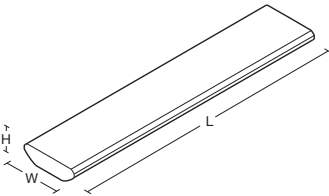
Utilisation Factors UF(F)

Room Reflectance Room Index
C W F 1.00 3.00 5.00
0.70 0.50 0.20 0.60 0.76 0.80

Utilisation Factors UF(F)

Room Reflectance Room Index
C W F 1.00 3.00 5.00
0.70 0.50 0.20 0.43 0.62 0.67

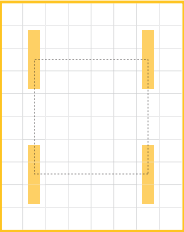
Dimensions



Version	L	W	H	KG	KG/m ²
1 x 28/54W	1234	173	51	3.8	4.3
2 x 28/54W	1234	238	51	4.2	4.7
1 x 35/49/80W	1534	173	51	4.8	5.3
2 x 35/49W	1534	238	51	5.2	5.7

Performance Guide

Lamps	Illuminance	Spacing
2 x 35W T5	520 lux	3.0m x 3.0m



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

Lamp Performance

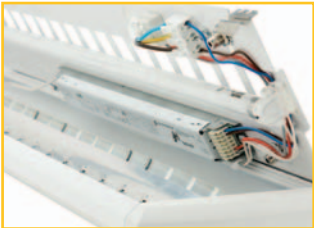
Wattage	IL@25°C	Lamp Life
1 x 28W T5	2625	24,000hrs
1 x 35W T5	3325	24,000hrs
1 x 49W T5	4375	24,000hrs
1 x 54W T5	4450	24,000hrs
1 x 80W T5	6550	24,000hrs



Continuous Mount Kit



Sensor Infill



Hinge Detail



Louvre



Diffuser

To Specify

Suspended architectural T5 luminaire system, with 51mm depth extruded aluminium body painted white or silver, with wedge louvre or opal acrylic diffuser. Easy maintenance via hinged body and gear tray – as Whitecroft Lighting ORIAS



Optics

- Lamp options:
 - 1 or 2 x 28/35/49/54W T5
- Choice of light output ratios:
 - 90% down and 10% up or 70% down and 30% up on single lamp
 - 90% down and 10% up or 60% down and 40% up on twin lamp
- Zero iridescence MIRO 6 semi-specular louvre

Body

- Individual or continuous in-line mounting
- Twin adjustable stainless steel wire suspension kits included (1.5m drop standard)
- Extruded aluminium body in white or silver
- Injection moulded colour coded polycarbonate end caps (order separately)
- Injection moulded colour coded polycarbonate ceiling rose cover included
- Internal wire-way for through wiring if continuously mounted

vector

Order Codes

Vector	HF Gear	3 hr Emergency
T5 1 x 28W	VECW5H128##S	VECW5H128##SEMIN
T5 2 x 28W	VECW5H228##S	VECW5H228##SEMIN
T5 1 x 35W	VECW5H135##S	VECW5H135##SEMIN
T5 2 x 35W	VECW5H235##S	VECW5H235##SEMIN
T5 1 x 49W	VECW5H149##S	VECW5H149##SEMIN
T5 2 x 49W	VECW5H249##S	VECW5H249##SEMIN
T5 1 x 54W	VECW5H154##S	VECW5H154##SEMIN
T5 2 x 54W	VECW5H254##S	VECW5H254##SEMIN

Accessories

Set of 2 silver end caps	VECECS
300mm infill	VECINF300S
600mm infill	VECINF600S
900mm infill	VECINF900S
1200mm infill	VECINF1200S
2-way variable corner assembly	VEC2S
3-way variable corner assembly	VEC3S
4-way variable corner assembly	VEC4S

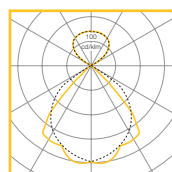
Output Variants

10% up 90% down	Replace ## with 90	i.e. VECW5H128 90 S
40% up 60% down	Replace ## with 60	i.e. VECW5H228 60 S
(Twin lamp variants)		
30% up 70% down	Replace ## with 70	i.e. VECW5H128 70 S
(Single lamp variants)		

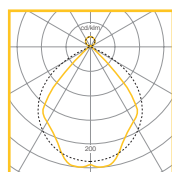
Options

DALI DIMMING	Replace H with Y	i.e. VECW5 Y 128##S
SWITCH DIMMING	Replace H with X	i.e. VECW5 X 128##S
EASYTEST	Add suffix /ET	i.e. VECW5H128##S/ ET
COMEPS	Add suffix /EP	i.e. VECW5H128##S/ EP
COMMAND 4	Replace H with Q4Y	i.e. VECW5 Q4Y 128##S
COMMAND 3	Replace H with Q3Y	i.e. VECW5 Q3Y 128##S
WHITE FINISH	Replace S with W	i.e. VECW5H128## W

Photometric Performance



1 x 35W T5 30:70
 • LOR = 96.5%
 • SHR MAX = 1.62



1 x 35W T5 10:90
 • LOR = 78.3%
 • SHR MAX = 1.50

Utilisation Factors UF(F)

Room Reflectance	Room Index			
C	W	F	1.00	3.00 5.00
0.70	0.50	0.20	0.69	0.88 0.93

Utilisation Factors UF(F)

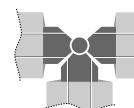
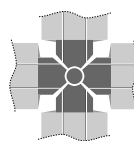
Room Reflectance	Room Index			
C	W	F	1.00	3.00 5.00
0.70	0.50	0.20	0.65	0.79 0.82



Ceiling Mounting Detail



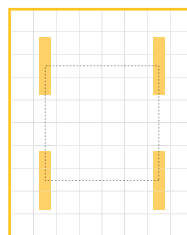
2 Way Variable Corner Assembly



Corner assembly options

Performance Guide

Lamps	Illuminance	Spacing
2 x 35W T5	540 lux	3.0m x 3.0m

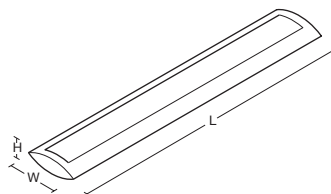


Maintenance: 0.8
 Reflectance: 70/50/20
 Ceiling Height: 2.7m
 Working Plane: 0.8m

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 28W T5	2625	24,000hrs
1 x 35W T5	3325	24,000hrs
1 x 49W T5	4375	24,000hrs
1 x 54W T5	4450	24,000hrs

Dimensions



Version	L	W	H	KG	KG
28/54W	1208	222	75	4.5	5.5
35/49W	1508	222	75	5.2	6.2

To Specify

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



Optics

- Lamp options:
 - 1 x 45/49W, 50/54W T5 ECO/T5
 - 2 x 25/28W, 32/35W T5 ECO/T5
- Cylindrical polycarbonate diffuser guarantees even light distribution and masks the lamp image

Body

- IP40 as standard
- Can be suspended or surface mounted
- When suspended a cable entry block enables discreet cable entry from above (supplied separately)
- Extruded aluminium trunking
- 7 pole through wiring as standard
- Quick Connect system for simple and rapid installation and reduction in labour costs
- Trunking infills in either 500mm or 1000mm
- Range of compulsory trunking covers (supplied separately)
- Trunking covers available with integral PIR presence detector and photocell* (supplied separately)
- Also available in Surface section. See page 206
- For integral sensor options all luminaires to be controlled must be DALI

* One Master Luminaire must be used in conjunction with the Integral Sensor.



Through Wiring



Trunking cover with integral sensor



Quick connect system

inspiration

Order Codes

Trunking

2000mm start of row
2000mm middle/end of row

INSST
INSMID

Luminaire

T5 ECO/T5 1 x 45/49W
T5 ECO/T5 1 x 50/54W
T5 ECO/T5 2 x 25/28W
T5 ECO/T5 2 x 32/35W

HF Gear

INSH149W
INSH154W
INSH228W
INSH235W

3 hr Emergency

INSH149WEM
INSH154WEM
INSH228WEM
INSH235WEM

Accessories

Trunking Infills

500mm infill
1000mm infill

INSINF500W
INSINF1000W

Trunking Cover for start/end of row

35/49W Cover
28/54W Cover

INSCOV230W
INSCOV380W

Trunking Cover for system without Infills

35/49W Cover
28/54W Cover

INSCOV460W
INSCOV760W

Trunking Cover for system with 500mm Infills

35/49W Cover
28/54W Cover

INSCOV960W
INSCOV1260W

Trunking Cover for system with 1000mm Infills

35/49W Cover
28/54W Cover

INSCOV1460W
INSCOV1760W

Trunking Cover for cable entry block

35/49W Cover
28/54W Cover

INSCOV330
INSCOV480

Components

WIRE SUSPENSION KIT*
TRUNKING END CAPS
CABLE ENTRY FROM ABOVE

ITRBPEND
INSECW
INSABCAB

*Two suspension kits required per 2m start of row trunking and one for each additional trunking section

Options

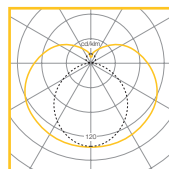
DALI DIMMING	Replace H with Y	i.e. INSY149W
EASYTEST	Add suffix /ET	i.e. INSH149W/ET
COMEPS**	Add suffix /EP	i.e. INSH149W/EP
MASTER LUMINAIRE***	Add suffix /MAST	INSY149W/MAST
(One Master Luminaire must be used when incorporating integrated sensor cover)		
INTEGRAL SENSOR WITHIN TRUNKING COVER	Add suffix /SEN	INSCOV460W/SEN

Note:

**DALI dimming combined with COMEPS is only available in conjunction with Whitecroft Command Elite DALI addressable system. Please consult our Technical Desk.

***Master Luminaires must be DALI. EM not available in Master Luminaires.

Photometric Performance



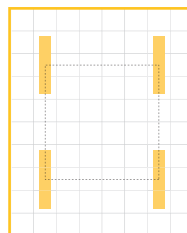
2 x 35W T5
• LOR = 77.8%
• SHR MAX = 1.82

Utilisation Factors UF(F)

Room Reflectance	Room Index				
C	W	F	C	W	F
0.70	0.50	0.20	0.43	0.63	0.70

Performance Guide

Lamps	Illuminance	Spacing
2 x 35W T5	361 lux	3.0m x 3.0m

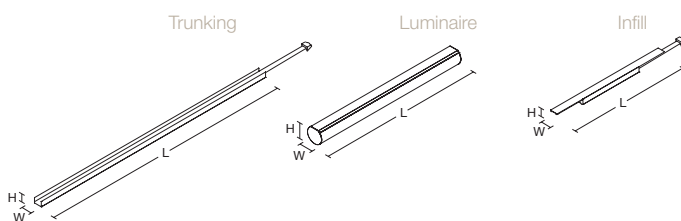


Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.75m

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 25W T5 ECO	2450	24,000hrs
1 x 32W T5 ECO	3100	24,000hrs
1 x 45W T5 ECO	4100	24,000hrs
1 x 50W T5 ECO	4400	24,000hrs
1 x 28W T5	2625	24,000hrs
1 x 35W T5	3325	24,000hrs
1 x 49W T5	4375	24,000hrs
1 x 54W T5	4450	24,000hrs

Dimensions



Version	L	W	H	KG	KG
Starter Trunking	2000	61	47	3.9	N/A
Middle Trunking	2000	61	47	3.9	N/A
500mm Infill	500	61	47	1.0	N/A
1000mm Infill	1000	61	47	2.0	N/A
28/54W Luminaire	1246	125	118	2.2	2.7
35/49W Luminaire	1546	125	118	3.3	3.7
Cable entry from above	100	61	47	0.7	N/A

To Specify

Suspended T5 fluorescent lighting system with polycarbonate circular diffuser and quick connect system for ease of installation, maximum efficiency and tool free installation – as Whitecroft Lighting INSPIRATION





Optics

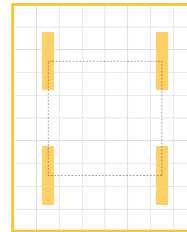
- Lamp options:
 - 1 or 2 x 28/35/49/54W T5
- MIRO 6 semi-specular louvre
- Light distribution, 80% down and 20% up

Body

- Steel body finished white or silver
- Low profile body designed for individual mounting
- Includes a 2 wire adjustable (max 1.5m) suspension kit with polycarbonate colour coded ceiling cover

Performance Guide

Lamps	Illuminance	Spacing
2 x 54W T5	500 lux	3.0m x 3.0m



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

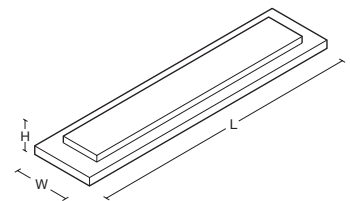
Order Codes

Glide	HF Gear	3 hr Emergency
T5 1 x 28W	GLIW5H128S	GLIW5H128SEMIN
T5 2 x 28W	GLIW5H228S	GLIW5H228SEMIN
T5 1 x 35W	GLIW5H135S	GLIW5H135SEMIN
T5 2 x 35W	GLIW5H235S	GLIW5H235SEMIN
T5 1 x 49W	GLIW5H149S	GLIW5H149SEMIN
T5 2 x 49W	GLIW5H249S	GLIW5H249SEMIN
T5 1 x 54W	GLIW5H154S	GLIW5H154SEMIN
T5 2 x 54W	GLIW5H254S	GLIW5H254SEMIN

Options

DALI DIMMING	Replace H with Y	i.e. GLIW5 Y 128S
SWITCH DIMMING	Replace H with X	i.e. GLIW5 X 128S
COMMAND 4	Replace H with Q4Y	i.e. GLIW5 Q4Y 128S
EASYTEST	Add suffix /ET	i.e. GLIW5H128S/ ET
COMEPS	Add suffix /EP	i.e. GLIW5H128S/ EP
COMET	Add suffix /CT	i.e. GLIW5H128S/ CT
WHITE FINISH	Replace S with W	i.e. GLIW5H128 W

Dimensions

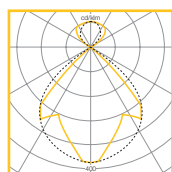


Version	L	W	H	KG	KG
28/54W	1330	250	58	7.0	8.0
35/49W	1630	250	58	7.0	8.0

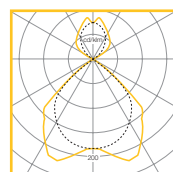
Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 28W T5	2625	24,000hrs
1 x 35W T5	3325	24,000hrs
1 x 49W T5	4375	24,000hrs
1 x 54W T5	4450	24,000hrs

Photometric Performance



1 x 54W T5
• LOR = 81%
• SHR MAX = 1.54



2 x 54W T5
• LOR = 60%
• SHR MAX = 1.31

Utilisation Factors UF(F)

Utilisation Factors of (r)					
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.61	0.77	0.81

Utilisation Factors UF(F)

Utilisation Factors U _r					
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.40	0.54	0.58

To Specify

Suspended T5 fluorescent luminaire with direct/indirect lighting ratio 80% down and 20% up. Positively retained MIRO 6 zero iridescence louvre and integral gear on a detachable tray. 58mm deep. Adjustable twin wire suspension with injection moulded polycarbonate ceiling rose cover – as Whitecroft Lighting GLIDE

Optics

- Lamp options:
 - 2 x 28/54W T5 multi watt control gear
- Circular polycarbonate diffuser
- The solid translucent polycarbonate diffuser guarantees even light dispersion and fades out the shape of the lamp

Body

- Suspended
- Maximum suspension drop 2m
- Extruded plain anodised aluminium body
- Slim anodised aluminium bracket holds a polycarbonate diffuser in which the lamps are housed

Order Codes

Buuze HF Gear
T5 2 x 28/54W WACO880.03.2.20.1

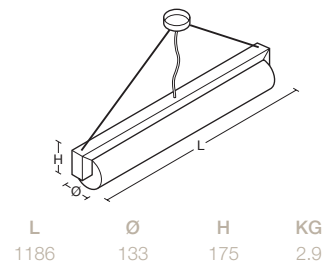
Options

POLYCARBONATE END CAPS WACO880.08.0.00.0
ANODISED ALUMINIUM END CAPS WACO880.09.0.20.0

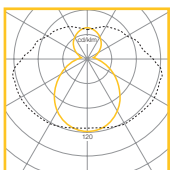
Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 28W T5	2625	24,000hrs
1 x 54W T5	4450	24,000hrs

Dimensions



Photometric Performance



2 x 54W T5
• LOR = 46.1%
• SHR MAX = 1.61

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.61 0.82 0.89

To Specify

Suspended linear luminaire with an anodised aluminium body and circular polycarbonate diffuser – as Whitecroft Lighting BUUZE





Optics

- Lamp options:
 - 4 or 6 x 49/80W T5
- Combination of specular and semi-specular reflectors for high efficiency and controlled contrast
- Uplighting element
- Suitable for mounting heights between 4m and 8m

Body

- Steel body finished white
- 4 suspension points for wire or chain suspension (by others)
- Optional suspension kit with up to 3m drop
- On high frequency versions, lamps are separately switched to allow varying light levels
- Not suitable for trunking mounting as standard

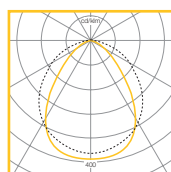
Order Codes

Aerial	HF Gear	3 hr Emergency
T5 4 x 49W	AERH449	AERH449EMIN
T5 6 x 49W	AERH649	AERH649EMIN
T5 4 x 80W	AERH480	AERH480EMIN
T5 6 x 80W	AERH680	AERH680EMIN

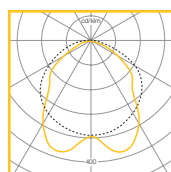
Options

DALI DIMMING	Replace H with Y	i.e. AERY449
EASYTEST	Add suffix /ET	i.e. AERH449/ET
COMEPS	Add suffix /EP	i.e. AERH449/EP
COMET	Add suffix /CT	i.e. AERH449/CT
WIRE SUSPENSION KIT	Up to 3m drop	AERSK1

Photometric Performance



6 x 80W T5
• LOR = 80.5%
• SHR MAX = 1.44



4 x 80W T5
• LOR = 85.2%
• SHR MAX = 1.61

Utilisation Factors UF(F)

Room Reflectance		Room Index	
C	W	F	
0.70	0.50	0.20	0.61 0.81 0.86

Utilisation Factors UF(F)

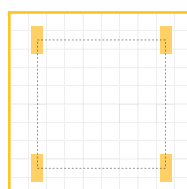
Room Reflectance		Room Index	
C	W	F	
0.70	0.50	0.20	0.56 0.82 0.89

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 49W T5	4375	24,000hrs
1 x 80W T5	6550	24,000hrs

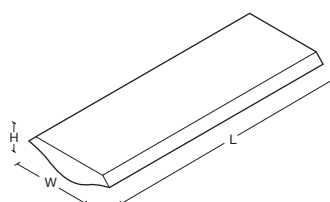
Performance Guide

Lamps	Illuminance	Spacing
6 x 80W T5	520 lux	7.0m x 7.0m



Maintenance: 0.8
Reflectance: 70/50/20
Ceiling Height: 10m
Working Plane: 0.0m

Dimensions

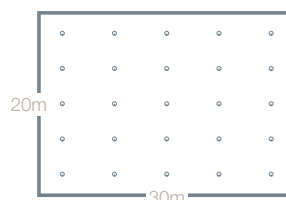


Version	L	W	H	KG	KG
6 Lamp	1478	450	118	9.5	10.5
4 Lamp	1472	356	100	6.0	7.0

Hibay vs Aerial Performance Guide

Hibay Sample Plot

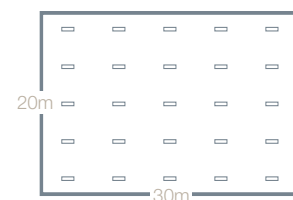
Lamps	Illuminance (Initial)	Illuminance (after 15,000 hrs)
400W HQI	1290 lux	890 lux



Reflectance: 70/50/20
Spacing: 6m x 4m
Mounting Height: 6m
No. of luminaires: 25

Aerial Sample Plot

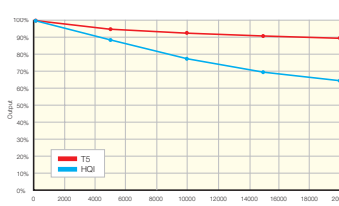
Lamps	Illuminance (Initial)	Illuminance (after 15,000 hrs)
6 x 80W T5	1240 lux	1116 lux



Reflectance: 70/50/20
Spacing: 6m x 4m
Mounting Height: 6m
No. of luminaires: 25

HQI vs T5 Lumen Maintenance

Lumen Maintenance Curve for HQI & T5 Lamps



HQI and T5 Lumen Maintenance
T5 fluorescent lamp has superior performance over life when compared with HID lamp types.

To Specify

Suspended fluorescent high output with 4 or 6 x 49/80W T5 lamps, high reflectivity aluminium optic to control glare & optimise horizontal & vertical illuminance. 4 suspension points for wire or chain suspension – as Whitecroft Lighting AERIAL



Potatoes

Milk

Bananas

Oranges

Lemons

£4.99 or less

airy

78p

78p

98p

98p

£1.98

TESCO
EXTRA-LARGE
PUMPKIN EACH

3.99

Suspended

127