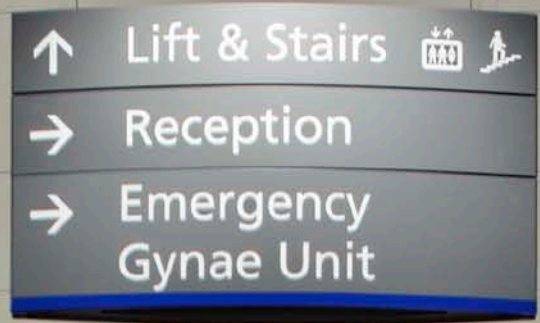




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downlighter



mirage LED 10



mirage LED attachments 18



mirage LED retrofit 21



concert ME 22



concert M 24



concert SE 26



concert S 28



spectre SQ 30



mirage LED surface 31



mirage MX24 32



mirage MX20 36



mirage attachments 38



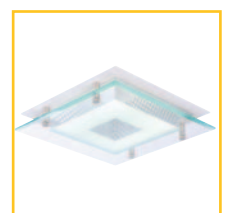
esprit 40



mirage wallwash 42



mirage sx 43



SQ 44



circo IP65 45



circo flex 46



circo fast 48



LDR LED micro tilt 49



LDR LED IP65 49



Mirage LED represents a step change in LED technology. Combining advanced optical design with the latest LED developments, Mirage LED is the first ambient lighting solution that delivers affordable energy savings across any application.

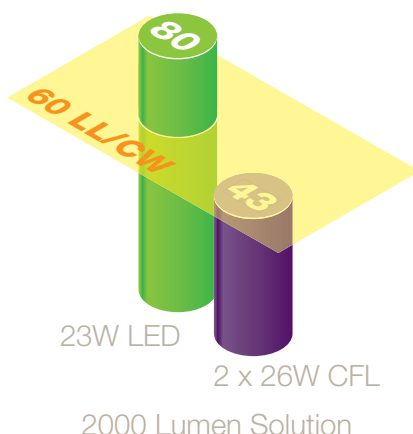
driving down costs

With ever increasing costs straining energy budgets, Mirage LED can save over 55% energy consumption compared to the equivalent compact fluorescent solution, resulting in a 1 - 3 year payback on many installations.

compliance guaranteed

The target of 55 luminaire lumens per watt established in the UK Building Regulations 2010 is difficult to achieve with most T5 fluorescent luminaires and almost impossible with compact fluorescent downlighters. Mirage LED can deliver up to 80 luminaire lumens per watt, far exceeding the compliance threshold.

BREEAM is a popular and well established building efficiency scheme. Mirage LED can help meet the higher categories within this assessment, helping buildings to achieve 'very good' and 'excellent' ratings.





environmental challenges

Energy reduction is driven by more than just building regulations. Large organisations are taking part in the government's Carbon Reduction Commitment, which targets a 40% reduction in carbon emissions over the next 10 years. The implementation of energy efficient lighting will go a long way towards helping businesses achieve this goal, ensuring the UK meets it's Kyoto Protocol commitments.



6500K creates a stimulating bright working environment.



4000K is the general lighting quality utilised in today's modern office.



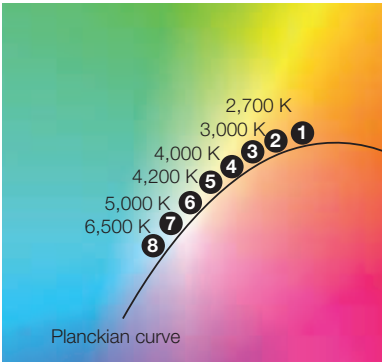
2700K is a warm welcoming light promoting relaxation and social interaction.

mirage LED

Mirage Tune offers a unique feature that enables the user to select a series of pre-programmed colour temperatures, designed to create either different motivational environments or a range of display effects.

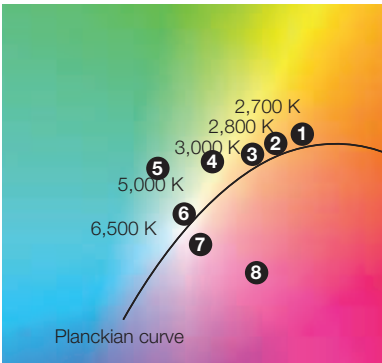
colour temperature mode

In this mode the user can select from a series of pre-programmed white points, from a warm 2,700K which delivers a relaxing atmosphere to a stimulating 6,500K working environment. This allows the same luminaire to be used to create different effects throughout a building, from reception areas to canteens and boardrooms. Alternatively, multi-use spaces can be simply switched from a cool motivating space to a warm relaxing area.



colour switch mode

In colour switch mode a wider colour range can be selected. In a Retail application, colour selection can significantly enhance the presentation of specific produce. This feature can also enhance the appearance of signature spaces within a commercial building emphasising artwork or specific decorative features.



Colour point	Colour	Produce
1	Gold	Bakery
2	Orange	Fruit
3	Yellow	Vegetables
4	Green	Fish
5	Green/Blue	Cheese
6	White	
7	Pink/Red	Meat
8		



A pink hue enhances meat



Yellow light displays vegetables best



Bread appears most appetising under golden light



Optics

LED light engines available in either a fixed or replaceable 'integra' format

- Light Output Options - Integra
 - 1100 lumens (18W*)
- Light Output Options - Comfort and Compact
 - 1100 lumens (13W*)
 - 2000 lumens (23W*)
 - 3000 lumens (37W*)
- Light Output Options - Tune
 - 1800 lumens (28W*)

*Total power consumption including driver based on the 4000K light engine

- Supplied complete with specular reflector
- Available in 3000K & 4000K
- Optional anti-glare control ring
- 50,000 hour life expectancy
- IP44 as standard (excluding Integra - IP20)

Body

- Black cast aluminium body with polycarbonate reflector ring in white
- Bodies available in two depths, Compact or Comfort
- Rapid installation guaranteed with our unique spring assembly
- Luminaire supplied with interconnecting cable for connection to the LED driver
- LED driver to be ordered separately with Compact and Comfort. Integra and Tune supplied with driver
- For ceilings 5-50mm thick
- Available with a wide range of attachments



mirage LED

Order Codes

Mirage LED Integra (no driver required)	Fixed Output	3 hr Emergency
1100 lumen 4000K	MLB114KCMP	-

Mirage LED Compact (order driver separately)	Fixed Output	3 hr Emergency
1100 lumen 4000K	MLA114KCMP	MLA114KCMPEM
2000 lumen 4000K	MLA204KCMP	MLA204KCMPEM

Mirage LED Comfort [†] (order driver separately)	Fixed Output	3 hr Emergency
1100 lumen 4000K	MLA114KCFT	MLA114KCFTEM
2000 lumen 4000K	MLA204KCFT	MLA204KCFTEM
3000 lumen 4000K [†]	MLA304KCFT	MLA304KCFTEM

Mirage LED Tune (supplied with driver)	Fixed Output	3 hr Emergency
1800 lumen 2700K – 6500K	MLC20CFT	-

Drivers	Fixed Output	DALI
1100 lumens	MLH12W	MLY17W
2000 lumens	MLH25W	MLY25W
3000 lumens	MLH50W	MLY50W

Options		
3000K COLOUR TEMP	Replace 4K with 3K	i.e. MLA203KCMP
EASYTEST	Add suffix /ET	i.e. MLA204KCMP/ET
COMEPS	Add suffix /EP	i.e. MLA204KCMP/EP
PATRESS		MLA-PAT

[†] Please note, the 3000 lumen variant is only available in 4000K colour temperature in the comfort body.



LED Light Engine



Anti-Glare Control Insert



Quick Fix Spring System



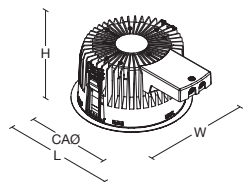
Integra Module



Pattress

mirage LED

Dimensions



Version	L	W	H	CAØ	KG	KG
Integra	232	183	100	165	1.18	-
Compact	232	183	100	165	1.18	2.7
Comfort	232	183	137	165	1.35	2.9
Tune	232	183	137	165	1.35	-
Driver	220	83	35	-	0.3	-

LED Performance

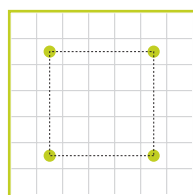
Colour Temp	Ra (CRI)	Life Expectancy	Colour Consistency
3000K	≥ 80	L ₇₀ (50,000hrs)	MacAdam 3 SDCM
4000K	≥ 80	L ₇₀ (50,000hrs)	MacAdam 3 SDCM
3000K - Integra	≥ 80	L ₇₀ (50,000hrs)	MacAdam 3 SDCM
4000K - Integra	≥ 80	L ₇₀ (50,000hrs)	MacAdam 3 SDCM
2700K - 6500K Tunable White	≥ 90	L ₇₀ (50,000hrs)	MacAdam 3 SDCM

Equivalent Lamp Types

1100 Lumen Output	
Compact fluorescent	1 x 18/26W
2000 Lumen Output	
Compact fluorescent	1 x 32/42W
	2 x 26W
3000 Lumen Output	
Compact fluorescent	2 x 32W

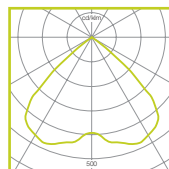
Performance Guide

Lamps	Illuminance	Spacing
23W LED	200 lux	3.0m x 3.0m



Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.0m

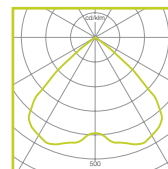
Photometric Performance



13W LED
Compact
1033 lumens
4000K
• LOR = 100%
• SHR MAX = 1.97

Utilisation Factors UF(F)

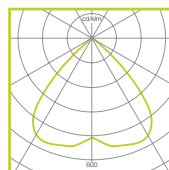
Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.79 1.02 1.08



23W LED
Compact
1834 lumens
4000K
• LOR = 100%
• SHR MAX = 1.97

Utilisation Factors UF(F)

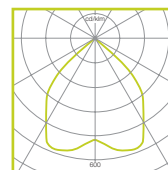
Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.79 1.02 1.08



23W LED
Comfort
1778 lumens
4000K
• LOR = 100%
• SHR MAX = 1.75

Utilisation Factors UF(F)

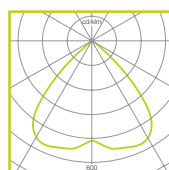
Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.80 1.03 1.08



23W LED
Comfort
Cylinder attachment
1793 lumens
4000K
• LOR = 100%
• SHR MAX = 1.67

Utilisation Factors UF(F)

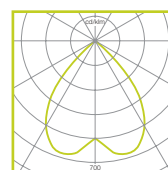
Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.89 1.05 1.09



37W LED
Comfort
2677 lumens
4000k
• LOR = 100%
• SHR MAX = 1.75

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.80 1.03 1.08



23W LED
Comfort
Anti-glare control
1365 lumens
4000k
• LOR = 100%
• SHR MAX = 1.62

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 1.08

To Specify

Mirage LED
Recessed LED downlight with cast aluminium body, white polycarbonate bezel and integral 1100 / 2000 / 3000 lumen light engine. For ceiling thicknesses of 5-50mm – as Whitecroft Lighting MIRAGE LED

Integra
Recessed LED downlight with cast aluminium body, white polycarbonate bezel and removable 1100 lumen light engine. For ceiling thicknesses of 5-50mm – as Whitecroft Lighting MIRAGE LED INTEGRA

Tune
Recessed LED downlight with cast aluminium body, white polycarbonate bezel and integral 1800 lumen 2700K-6500K tunable light engine. For ceiling thicknesses of 5-50mm – as Whitecroft Lighting MIRAGE LED TUNE



mirage attachments



To compliment the Mirage LED downlighter, a new range of architectural attachments have been developed. The range consists of 5 different feature rings, each developed to provide a subtle aesthetic enhancement to the standard luminaire. These feature attachments can be further enhanced by the addition of coloured rings, along with clear or opal inserts, to provide a staggering combination of options.

These attachments all share a number of unique features:

Easy Installation

The feature attachments simply clip into the Mirage LED bezel from the front face, and do not require tools to install. This means that they can be fitted at any time during or after installation, or even retro-fitted to existing luminaires.

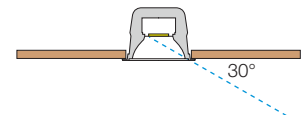
Visual Integration

The attachments can be mixed and matched throughout a building to offer visual zoning and architectural integration. The additional use of coloured inserts can help with navigation throughout a building by differentiating between areas, as well as just adding visual interest.

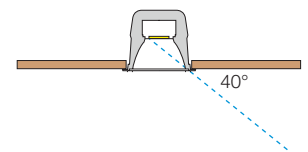
Glare Control

All feature attachments employ the same micro-polymer materials first used in our successful DUO² range of luminaires and provide excellent light output ratios. The feature attachments also create an Intermediate Brightness Zone between ceiling and optic, which leads to greater visual comfort.

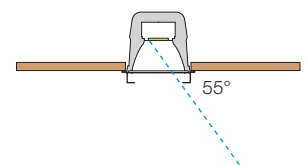
Mirage compact



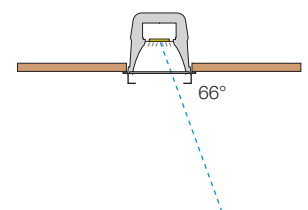
Mirage comfort



Cylinder ring attachment



Anti-glare control insert



IP64 Clear Disc



Cylinder



Flush Ring



Floating Ring



Cylinder Ring



Coloured Ring Inserts



Etched Glass Ring



Anti-Glare Control



mirage LED attachments

IP64 Clear Disc

- IP64 protection
- High light output ratios for maximum efficiency
- Allows architectural harmony with other areas

Please note, IP64 clear disc cannot be used with 3000 lumen variant.



Cylinder

- No upward facing surface
- Intermediate brightness zone
- Long range visibility
- Minimum efficiency disruption



Flush Ring

- Fully recessed
- Intermediate brightness zone
- Minimum efficiency disruption
- Option with coloured inserts (RGB)



Floating Ring

- Invisible suspension – no shadows from fixings
- Intermediate brightness zone
- Long range visibility
- Minimum efficiency disruption
- Option with coloured inserts (RGB)



Cylinder Ring

- Architectural feature – adds presence to any application
- Intermediate brightness zone
- Long range visibility
- Minimum efficiency disruption
- Option with coloured inserts (RGB)



Coloured Ring Inserts

- Red, green and blue inserts
- Create a dramatic appearance or compliment an interior scheme
- Ideal as a navigation aid



Etched Glass Ring

- Feature glass is easily fitted via 3 metal clip-in pillars
- Long range visibility
- Etched pattern on glass



Anti-Glare Control Insert

- Clips over light engine
- Shields light source from any angle of view



mirage LED attachments

Order Codes

Attachments

Anti-Glare Control Insert

Cylinder

Flush ring

Flush ring and colour inserts

Floating ring with clear sides

Floating ring with clear sides and colour ring inserts

Cylinder ring with satin sides

Cylinder ring with satin sides and colour ring inserts

*Clear inner disc

*Satin inner disc

Feature glass ring

Feature glass ring emergency

IP64 clear disc

**Attachment ring

***Attachment ring emergency

* Accessory for flush ring, floating ring or cylinder ring

** Required for all attachments except feature glass ring and anti-glare control insert - non emergency luminaires

*** Required for all attachments except feature glass ring and anti-glare control insert - emergency luminaires

MLA-AGC

MLA-2

MLA-1

MLA-1C

MLA-3

MLA-3C

MLA-4

MLA-4C

MLA-IDC

MLA-IDS

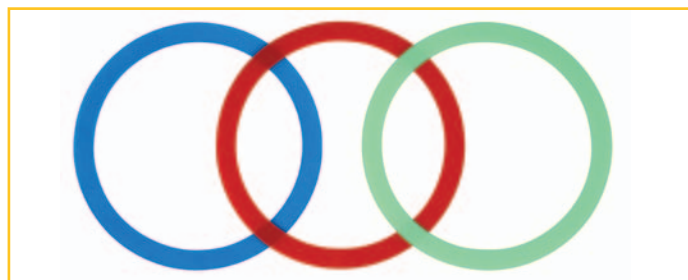
MLA-61

MLA-61EM

MLA-IP64C

MLA-STD

MLA-EMG



Coloured Ring Inserts

mirage LED retrofit

- Replace any CFL downlighter with a cut aperture of 240mm or less to Mirage LED without replacing the ceiling tile or altering plasterboard ceilings
- Retrofit kit consists of a pattress and 250mm diameter Mirage LED attachment bezel
- Steel pattress is designed to go through all cut apertures greater than 165mm
- Mirage LED luminaire to be ordered separately

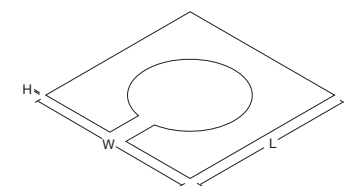
Order Codes

Mirage LED Retrofit Kit

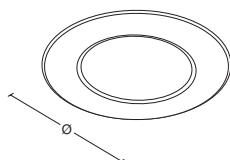
Retrofit Kit

MLAREFIT

Dimensions



L	W	H	KG
270	270	0.5	0.5



Ø	KG
250	0.2

retrofit kit for replacement of CFL to LED downlighters



To Specify

Retrofit kit for the replacement of any compact fluorescent downlighter to LED with a cut aperture of up to 240mm. Supplied with steel pattress and a 250mm attachment bezel which removes the need to replace any ceiling tiles – as Whitecroft Lighting MIRAGE LED RETROFIT



Optics

- 20° or 60° beam angles for precise lighting control
- 3000K or 4000K options
- 18W total power consumption (incl. driver)
 - total power consumption will decrease as LED technology advances
- Uniform light output with very low glare due to the unique remote phosphor diffuser
- 50,000 hours life expectancy

Body

- Single, twin or triple bezel clusters available
- 30° tilt and 350° rotation within bezel
- Cast aluminium body provides efficient heat sink connection with the LED module
- Available in white, black or brushed aluminium
- Light engine and bezel to be ordered separately
- For ceiling thickness:
 - 5 - 17mm

Driver

- Fixed output or DALI dimming versions available
- Constant current 700mA



Round Single Brushed Aluminium



Square Single Brushed Aluminium



Round Twin Brushed Aluminium



Square Twin Brushed Aluminium



Round Triple Brushed Aluminium



Square Triple Brushed Aluminium

concert ME

Order Codes

Concert ME White Light Engine

4000K 60° Optic	CNHME10004KFLW
3000K 60° Optic	CNHME10003KFLW
4000K 20° Optic	CNHME10004KSPW
3000K 20° Optic	CNHME10003KSPW

Round White Bezel

Single	CNME1000W/R1
Twin	CNME1000W/R2
Triple	CNME1000W/R3

Square White Bezel

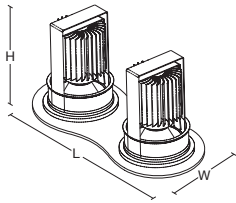
Single	CNME1000W/S1
Twin	CNME1000W/S2
Triple	CNME1000W/S3

Options

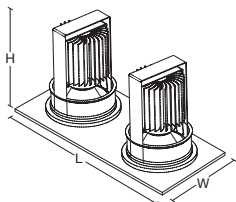
BLACK	Replace W with BK	i.e. CNHME10004KFL BK
ALUMINIUM	Replace W with S	i.e. CNHME10004KFL S
DALI DIMMING	Replace H with Y	i.e. CNYME10004KFLW

Note: light engines and bezels must be ordered together to create complete luminaire

Dimensions



Round	L	W	H	KG
Single	120	120	145	0.6
Twin	240	120	145	1.2
Triple	360	120	145	1.8
Driver	H	W	L	KG
Driver	31	32	179	0.12



Square	L	W	H	KG
Single	120	120	145	0.6
Twin	240	120	145	1.2
Triple	360	120	145	1.8
Driver	H	W	L	KG
Driver	31	32	179	0.12

Equivalent Lamp Types

Concert ME Lumen Output

Compact fluorescent	1 x 18W, 1 x 26W
CDM	1 x 20W
Tungsten Halogen	1 x 75W

Photometric Performance

20° 3000K			60° 4000K		
MH	LUX	Ø	MH	LUX	Ø
1.0m	3168	0.5	1.0m	1047	1.2
1.5m	1408	0.7	1.5m	465	1.7
2.0m	792	1.0	2.0m	262	2.30
2.5m	507	1.2	2.5m	168	2.9
3.0m	352	1.5	3.0m	116	3.5

To Specify

Recessed high output LED directional downlight. Cast aluminium body with integral 1000 lumen LED light engine and remote driver for flexibility and rapid installation. For ceiling thicknesses of 5-17mm supplied complete with driver – as Whitecroft Lighting CONCERT ME



concert M

1000 lumen
downlighter



Optics

- 24° or 42° beam angles
- 3000K or 4000K options
- 18W total power consumption (inc. driver)
– total power consumption will decrease as LED technology advances
- Uniform light output with very low glare due to the unique remote phosphor diffuser
- Vacuum metalised reflector
- 50,000 hours life expectancy

Body

- Die cast aluminium body and luminaire housing finished in white
- Extruded aluminium, multi-fin heat sink ensures maximum thermal diffusion
- Fixed and tilting versions
- Adjustable option tilts 0-60°
- Suitable for ceiling thickness of 8-25mm
- Fixed version IP44 from below as standard
- Adjustable version IP40 from below as standard (fixed version IP44)

Driver

- Fixed output or DALI dimming version
- Constant Current 700mA

Order Codes

Concert M Fixed Bezel	Colour	
4000K Flood Optic	White	CNHMFT4KFLW
3000K Flood Optic	White	CNHMFT3KFLW
4000K Spot Optic	White	CNHMFT4KSPW
3000K Spot Optic	White	CNHMFT3KSPW

Concert M Adjustable Bezel	Colour	
4000K Flood Optic	White	CNHMFX4KFLW
3000K Flood Optic	White	CNHMFX3KFLW
4000K Spot Optic	White	CNHMFX4KSPW
3000K Spot Optic	White	CNHMFX3KSPW

Options

DALI DIMMING	Replace H with Y	i.e. CNYMFT4KFLW
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Emergency (Fixed Bezel Only)

Emergency Conversion Kit
(To be ordered in addition to standard luminaires)

CNMFTMKIT



Equivalent Lamp Types

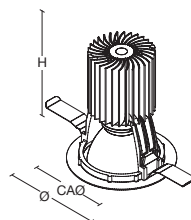
Concert M Lumen Output

Compact Fluorescent	1 x 18W, 1 x 26W
CDM	1 x 20W
Tungsten Halogen	1 x 75W

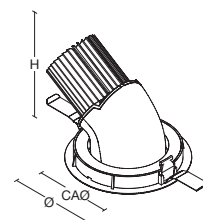
Photometric Performance

24° 3000K			42° 3000K			24° 4000K			42° 4000K		
MH	LUX	Ø	MH	LUX	Ø	MH	LUX	Ø	MH	LUX	Ø
1.0m	3468	0.4	1.0m	1629	0.7	1.0m	3398	0.4	1.0m	1616	0.7
2.0m	867	0.8	2.0m	407	1.5	2.0m	849	0.8	2.0m	404	1.5
3.0m	385	1.2	3.0m	181	2.2	3.0m	378	1.2	3.0m	180	2.2
4.0m	217	1.6	4.0m	102	2.9	4.0m	212	1.6	4.0m	101	2.9
5.0m	139	2.0	5.0m	65	3.7	5.0m	138	2.0	5.0m	65	3.7

Dimensions



H	Ø	CAØ	KG
136	113	95	0.75



H	Ø	CAØ	KG
130	146	140	0.91

To Specify

Recessed high output LED directional or fixed downlight with 24° or 42° light distribution. Cast aluminium body with integral 1000 lumen LED light engine and remote driver for flexibility and rapid installation. For ceiling thicknesses of 8-25mm supplied complete with driver – as Whitecroft Lighting CONCERT M



Optics

- 3000K or 4000K options
- 54°/17° beam angles for maximum room surface illumination or highly defined accent lighting
- SE500 - 7 LEDs running at 350mA = 9.5w system power
- SE1000 - 7 LEDs running at 700mA = 18w system power – total power consumption will decrease as LED technology advances
- High quality, single bin LEDs with a 4 Macadam ellipse tolerance
- Lower point brightness due to the unique LED arrangement
- Specifically designed lens array to produce a precise beam control and high colour rendering index
- 50,000 hours life expectancy

Body

- Choice of four aesthetically appealing bezels
- Modular design utilising either a 500 or 1000 lumen LED package
- CNC machined aluminium bezels for a high quality appearance and finish
- Finished in white, black or brushed aluminium
- For ceiling thickness: – 3 to 17mm

Driver

- Constant current 350mA / 700mA
- 1-10V analogue dimming as standard
- Optional DALI dimming driver



Concert SE Adjustable



Concert SE Cone



Concert SE Recessed



Concert SE 45° Cap

concert SE

Order Codes

Concert SE500 White Fixed Bezel – 500 Lumen Output

4000K Flood Optic	CNSE5004KFLW/A
3000K Flood Optic	CNSE5003KFLW/A
4000K Spot Optic	CNSE5004KSPW/A
3000K Spot Optic	CNSE5003KSPW/A

Concert SE500 White Adjustable Bezel – 500 Lumen Output

4000K Flood Optic	CNSE5004KFLW/B
3000K Flood Optic	CNSE5003KFLW/B
4000K Spot Optic	CNSE5004KSPW/B
3000K Spot Optic	CNSE5003KSPW/B

Concert SE500 White Cone Bezel – 500 Lumen Output

4000K Flood Optic	CNSE5004KFLW/C
3000K Flood Optic	CNSE5003KFLW/C
4000K Spot Optic	CNSE5004KSPW/C
3000K Spot Optic	CNSE5003KSPW/C

Concert SE500 White Recessed Bezel – 500 Lumen Output

4000K Flood Optic	CNSE5004KFLW/D
3000K Flood Optic	CNSE5003KFLW/D
4000K Spot Optic	CNSE5004KSPW/D
3000K Spot Optic	CNSE5003KSPW/D

45° Cap

CAP ACCESSORY FOR FIXED AND ADJUSTABLE BEZELS CNSE500W/E

Options

DALI DIMMING	Insert Y after CN	i.e. CNYSE5004KFLW/A
1000 LUMEN LED	Replace 500 with 1000	i.e. CNSE10003KFLW
BLACK FINISH	Replace W with BK	i.e. CNSE5004KFLBK/A
ALUMINIUM FINISH	Replace W with B	i.e. CNSE5004KFLB/A

Emergency

EMERGENCY CONVERSION KIT (SE500 & SE1000) CNSE500EMKIT

Note: To be ordered in addition to standard luminaires

Equivalent Lamp Types

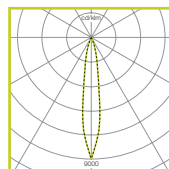
Concert SE 1000 Lumen Output

Compact Fluorescent	1 x 18W, 1 x 26W
CDM	1 x 20W
Tungsten Halogen	1 x 50W, 1 x 75W

Concert SE 500 Lumen Output

Compact Fluorescent	1 x 13W
Tungsten Halogen	1 x 35W

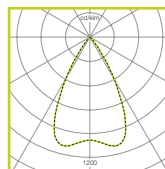
Photometric Performance



Concert SE500
17° 4000K
530 lumens
• LOR = 100%
• SHR MAX = 1.01

Utilisation Factors UF(F)

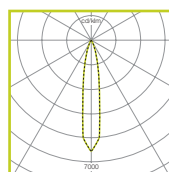
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	1.01	1.11	1.14



Concert SE500
54° 3000K
475 lumens
• LOR = 100%
• SHR MAX = 1.17

Utilisation Factors UF(F)

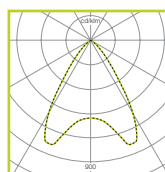
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.85	1.04	1.08



Concert SE1000
17° 4000K
1130 lumens
• LOR = 100%
• SHR MAX = N/A

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.97	1.08	1.11

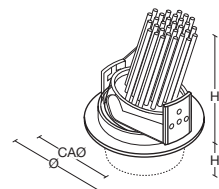


Concert SE1000
54° 3000K
1120 lumens
• LOR = 100%
• SHR MAX = N/A

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.82	1.03	1.08

Dimensions



Version	H	H ₁	Ø	CAØ	KG
Fixed	100	-	90	80	0.84
Adjustable	100	-	90	80	0.86
Cone	100	30	90	80	0.92
Recessed	120	-	90	80	0.97
45° Cap	-	60	45	-	0.2

To Specify

Recessed high output single bin LED downlight. CNC machined bezel finished in white/brushed aluminium/black. For ceiling thicknesses of 3-17mm, supplied complete with driver as Whitecroft Lighting CONCERT SE500 / SE1000



Optics

- 3000K or 4000K options
- 54°/17° beam angles for maximum room surface illumination or highly defined accent lighting
- S500 - 7 LEDs running at 350mA = 9.5w system power
- S1000 - 7 LEDs running at 700mA = 18w system power
 - total power consumption will decrease as LED technology advances
- High quality, single bin LEDs with only a 4 Macadam ellipse tolerance
- Lower point brightness due to the unique LED arrangement
- 50,000 hours life expectancy

Body

- Sizes and options:
 - Fixed 82mm Ø
 - Adjustable 95mm Ø
- Modular design with fixed and tilting versions
- Adjustable version IP40 from below as standard (fixed version IP44)
- Die cast aluminium body
- Bezel finished white or brushed aluminium
- For ceiling thickness – 3mm to 17mm

Driver

- Constant current 350mA or 700mA
- 1-10V analogue dimming as standard
- Optional DALI dimming driver



Concert S White Fixed



Concert S White Adjustable

concert s

Order Codes

Concert S500 White Fixed Bezel – 500 Lumen Output

3000K Flood Optic
4000K Flood Optic
3000K Spot Optic
4000K Spot Optic

CN5003KFLFW
CN5004KFLFW
CN5003KSPFW
CN5004KSPFW

Concert S500 White Adjustable Bezel – 500 Lumen Output

3000K Flood Optic
4000K Flood Optic
3000K Spot Optic
4000K Spot Optic

CN5003KFLAW
CN5004KFLAW
CN5003KSPAW
CN5004KSPAW

Options

DALI DIMMING	Insert Y after CN	i.e. CNY5003KFLFW
ALUMINIUM	Replace W with B	i.e. CN5003KFLAB
CONCERT S1000	Replace 500 with 1000	i.e. CN10003KFLFW

Emergency

Emergency Conversion Kit (S500 & S1000)

CN500EMKIT

Note: To be ordered in addition to standard luminaires

Equivalent Lamp Types

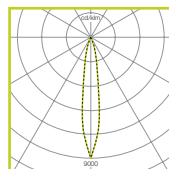
Concert S 1000 Lumen Output

Compact Fluorescent	1 x 18W, 1 x 26W
CDM	1 x 20W
Tungsten Halogen	1 x 50W, 1 x 75W

Concert S 500 Lumen Output

Compact Fluorescent	1 x 13W
Tungsten Halogen	1 x 35W

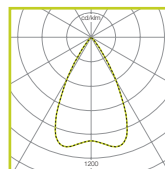
Photometric Performance



Concert S500
17° 4000K
530 lumens
• LOR = 100%
• SHR MAX = 1.01

Utilisation Factors UF(F)

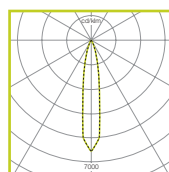
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	1.01	1.11	1.14



Concert S500
54° 3000K
475 lumens
• LOR = 100%
• SHR MAX = 1.17

Utilisation Factors UF(F)

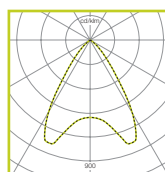
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.85	1.04	1.08



Concert S1000
17° 4000K
1130 lumens
• LOR = 100%
• SHR MAX = N/A

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.97	1.08	1.11

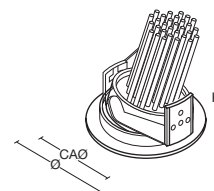


Concert S1000
54° 3000K
1120 lumens
• LOR = 100%
• SHR MAX = N/A

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.82	1.03	1.08

Dimensions



Version	H	Ø	CAØ	KG
Fixed	100	82	72	0.3
Adjustable	100	95	80	0.3
Driver	H	W	L	KG
Std Driver	37	52	108	0.2
DALI Driver	32	31	179	0.2

To Specify

Recessed high output single bin LED downlight. Fixed 82mm/adjustable 95mm bezel finished in white/brushed aluminium. Fixed bezel IP44/adjustable bezel IP40 from below the ceiling. For ceiling thicknesses of 3-17mm, supplied complete with dimmable driver as Whitecroft Lighting CONCERT S500 / S1000



Optics

- Light Output Options:
 - 1100 lumens (13W*)
 - 2000 lumens (23W*)
- *Total power consumption including driver
- MIRO reflector
- Available in 4000K
- 50,000 hour life expectancy

Body

- Die cast aluminium bezel
- For ceilings 5 – 25mm thick
- Optimised passive thermal management system
- LED driver to be ordered separately
- Decorative attachment available

Order Codes

Spectre SQ (standard)	Fixed Output	3 hr Emergency
1100 lumen 4000K	SQL114K	SQL114KEM
2000 lumen 4000K	SQL204K	SQL204KEM

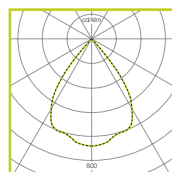
Spectre SQ (With feature attachment)	Fixed Output	3 hr Emergency
1100 lumen 4000K	SQLA114KFA	SQLA114KEMFA
2000 lumen 4000K	SQLA204KFA	SQLA204KEMFA

Driver	Fixed Output	DALI
1100 lumens	MLH12W	MLY17W
2000 lumens	MLH25W	MLY25W

Options

EASYTEST	Add suffix /ET	i.e. SQL114K/ET
COMEPS	Add suffix /EP	i.e. SQL114K/EP

Photometric Performance



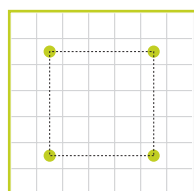
Spectre SQ
• LOR = 100%
• SHR MAX = 1.41
• 1954 lumens

Utilisation Factors UF(F)

Room Reflectance	Room Index			
C	W	F	1.00	3.00
0.70	0.50	0.20	0.89	1.04
				1.08

Performance Guide

Lamps	Illuminance	Spacing
23W LED	200 lux	3.0m x 3.0m



Maintenance: 0.8
Reflectance: 70/50/20
Ceiling Height: 2.7m
Working Plane: 0.0m



Feature Attachment

Equivalent Lamp Types

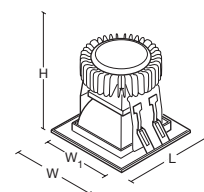
1100 Lumen Output
Compact Fluorescent 1 x 18/26W

2000 Lumen Output
Compact Fluorescent 1 x 32/42W, 2 x 26W

LED Performance

Colour Temp	Ra (CRI)	Life Expectancy	Colour Consistency
4000K	≥ 80	L ₇₀ (50,000hrs)	MacAdam 3 SDCM

Dimensions



L	W	H	W ₁	KG	KG ₂
170	170	160	140	1.6	3.1

To Specify

Recessed square LED downlighter with die-cast aluminium bezel, Miro reflector and integral 1100 / 2000 lumen light engine. For ceiling thicknesses of 5-25mm – as Whitecroft Lighting SPECTRE SQ

mirage LED surface

surface mounted
LED downlighter



Optics

- LED light engine available in either a fixed or replaceable 'integra' format
- Light Output Options - Integra
 - 1100 lumens (18W*)
- Light Output Options
 - 1100 lumens (13W*)
 - 2000 lumens (23W*)

*Total power consumption including driver based on the 4000K light engine

- Supplied complete with specular reflector
- Available in 4000K
- Optional anti-glare control ring
- 50,000 hour life expectancy
- IP20

Body

- Cast aluminium body finished in white
- Supplied complete with driver



Order Codes

Mirage LED S – Integra	Fixed Output	DALI
1100 lumen 4000K	MSBH114KCFT	-

Mirage LED S	Fixed Output	DALI
1100 lumen 4000K	MSAH114KCFT	MSAY114KCFT
2000 lumen 4000K	MSAH204KCFT	MSAY204KCFT

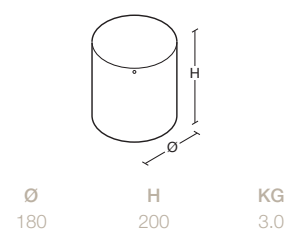
Attachments

Anti-glare control insert	MLA-AGC
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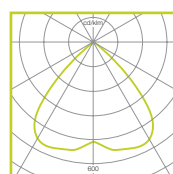
LED Performance

Colour Temp	Ra (CRI)	Life Expectancy	Colour Consistency
4000K - Integra	≥ 80	L ₇₀ (50,000hrs)	MacAdam 3 SDCM
4000K	≥ 80	L ₇₀ (50,000hrs)	MacAdam 3 SDCM

Dimensions



Photometric Performance



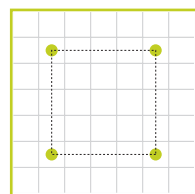
23W LED
Comfort
1778 lumens
4000K
• LOR = 100%
• SHR MAX = 1.75

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.80 1.03 1.08

Performance Guide

Lamps	Illuminance	Spacing
23W LED	200 lux	3.0m x 3.0m



Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.0m

To Specify

Mirage LED S

Surface mounted LED downlighter with cast aluminium body and specular reflector finished in white. Integral 1100 / 2000 lumen light engine – as Whitecroft Lighting MIRAGE LED S

Mirage LED S Integra

Surface mounted LED downlighter with cast aluminium body and specular reflector finished in white. Removable 1100 lumen light engine – as Whitecroft Lighting MIRAGE LED S Integra

mirage MX24

compact fluorescent
downlighter



Plain Reflector

Optics

- Lamp options:
 - 2 x 18W TC-D
 - 1 or 2 x 26W TC-D
 - 1 or 2 x 32W TC-T
 - 1 or 2 x 42W TC-T
 - 1 x 57W TC-T
 - 1 or 2 x 17W PL-R ECO
 - 2 x 14W PL-R ECO
- Vacuum metalised diamond facet or anodised plain reflector

Body

- Cast aluminium body with cast aluminium bezel painted white
- 3 point fixing for ceilings, 1mm to 25mm thick
- Supplied with cut aperture support ring to simplify installation
- Integrated removable gear tray for HF and dimming versions
- Available with a wide range of attachments



mirage MX24

compact fluorescent
downlighter



Order Codes

Diamond Facet

TC-D 2 x 18W
TC-D 1 x 26W
TC-D 2 x 26W

HF Gear
MX24H218S
MX24H126S
MX24H226S

3 hr Emergency
MX24H218SEM
MX24H126SEM
MX24H226SEM

Plain

TC-D 2 x 18W
TC-D 1 x 26W
TC-D 2 x 26W
TC-T 1 x 32W
TC-T 2 x 32W
TC-T 1 x 42W
TC-T 2 x 42W
TC-T 1 x 57W

HF Gear
MX24H218P
MX24H126P
MX24H226P
MX24H132P
MX24H232P
MX24H142P
MX24H242P
MX24H157P

3 hr Emergency
MX24H218PEM
MX24H126PEM
MX24H226PEM
MX24H132PEM
MX24H232PEM
MX24H142PEM
MX24H242PEM
MX24H157PEM

ECO Diamond Facet

PL-R 2 x 14W
PL-R 1 x 17W
PL-R 2 x 17W

HF Gear
MX24H214S
MX24H117S
MX24H217S

3 hr Emergency
MX24H214SEM
MX24H117SEM
MX24H217SEM

ECO Plain

PL-R 2 x 14W
PL-R 1 x 17W
PL-R 2 x 17W

HF Gear
MX24H214P
MX24H117P
MX24H217P

3 hr Emergency
MX24H214PEM
MX24H117PEM
MX24H217PEM

Options

DALI DIMMING
SWITCH DIMMING*
COMEPS
EASYTEST*
COMET

Replace H with Y
Replace H with X
Add suffix /EP
Add suffix /ET
Add suffix /CT

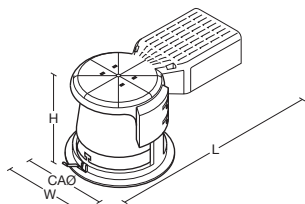
i.e. MX24Y218P
i.e. MX24X218P
i.e. MX24H218P/EP
i.e. MX24H218P/ET
i.e. MX24H218P/CT

*Not available for PLR-ECO 2 x 14W and 1/2 x 17W



mirage MX24

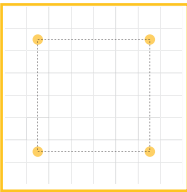
Dimensions



Version	L	W	H	CAØ	KG	KG
Diamond Facet	420	240	122	230 ± 1	2.0	3.0
Plain	420	240	171	230 ± 1	2.0	3.0

Performance Guide

Lamps	Illuminance	Spacing
2 x 26W TC-D	210 lux	3.0m x 3.0m



Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.0m

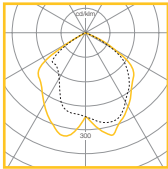
Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 14W PL-R ECO 1050		24,000hrs
1 x 17W PL-R ECO 1250		24,000hrs
1 x 18W TC-D	1200	13,000hrs
1 x 26W TC-D	1800	13,000hrs
1 x 32W TC-T	2400	13,000hrs
1 x 42W TC-T	3200	13,000hrs
1 x 57W TC-T	4200	13,000hrs

Photometric Performance



1 x 26W TC-D
Diamond Facet
• LOR = 80.2%
• SHR MAX = 1.88



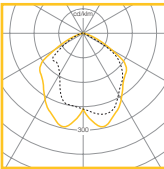
2 x 26W TC-D
Diamond Facet
• LOR = 70.7%
• SHR MAX = 1.68

Utilisation Factors UF(F)

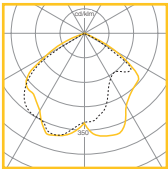
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.53	0.76	0.81

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.46	0.61	0.65



2 x 26W TC-D
Plain Reflector
• LOR = 66.1%
• SHR MAX = 1.68



1 x 17W PL-R ECO
Diamond Facet
• LOR = 88.1%
• SHR MAX = 1.74

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.46	0.61	0.65

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	0.87	0.93

To Specify

Compact fluorescent downlighter with cast aluminium body, white cast aluminium bezel and integral control gear. With choice of plain silver or diamond faceted reflector – as Whitcroft Lighting MIRAGE MX24



Optics

- Lamp options:
 - 1 or 2 x 13W TC-D
 - 1 or 2 x 18W TC-D
- Vacuum metalised diamond facet reflector or anodised plain reflector

Body

- Cast aluminium body with cast aluminium bezel painted white
- 3 point fixing for ceilings, 1mm to 25mm thick
- Integrated removable gear tray for HF and dimming versions
- Available with a wide range of attachments



Plain Reflector

mirage MX20

Order Codes

Diamond Facet

TC-D 1 x 13W
TC-D 2 x 13W
TC-D 1 x 18W
TC-D 2 x 18W

HF Gear

MX20H113S
MX20H213S
MX20H118S
MX20H218S

3 hr Emergency

MX20H113SEM
MX20H213SEM
MX20H118SEM
MX20H218SEM

Plain*

TC-D 1 x 13W
TC-D 2 x 13W
TC-D 1 x 18W
TC-D 2 x 18W

HF Gear

MX20H113P
MX20H213P
MX20H118P
MX20H218P

3 hr Emergency

MX20H113PEM
MX20H213PEM
MX20H118PEM
MX20H218PEM

*Plain reflector not suitable for any of the MX attachments

Options

DALI DIMMING

Replace H with **Y**

i.e. MX20**Y**113P

SWITCH DIMMING

Replace H with **X**

i.e. MX20**X**113P

COMEPS

Add suffix **/EP**

i.e. MX20H113P/**EP**

EASYTEST

Add suffix **/ET**

i.e. MX20H113P/**ET**

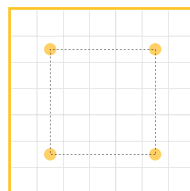
COMET

Add suffix **/CT**

i.e. MX20H113P/**CT**

Performance Guide

Lamps Illuminance Spacing
2 x 18W TC-D 260 lux 2.4m x 2.4m



Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.0m

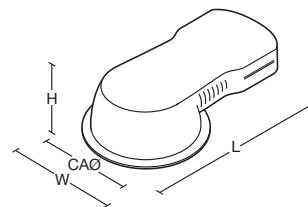


Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 13W TC-D	900	13,000hrs
1 x 18W TC-D	1200	13,000hrs



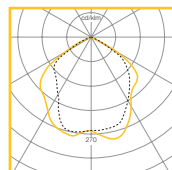
Dimensions



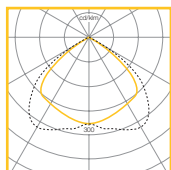
L	W	H	CAØ	KG	KG
332	200	112	185	2.8	3.8



Photometric Performance



2 x 18W TC-D
Diamond Facet
• LOR = 57.3%
• SHR MAX = 1.59



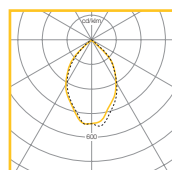
2 x 18W TC-D
Plain Reflector
• LOR = 68.5%
• SHR MAX = 1.81

Utilisation Factors UF(F)

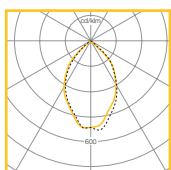
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.45	0.59	0.62

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.58	0.72	0.76



1 x 18W TC-D
Diamond Facet
• LOR = 61.4%
• SHR MAX = 1.26



1 x 18W TC-D
Plain Reflector
• LOR = 60.1%
• 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	0.55	0.65	0.67

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.54	0.64	0.66

To Specify

Compact fluorescent downlighter with cast aluminium body, white cast aluminium bezel and integral control gear. With choice of plain silver or diamond faceted reflector – as Whitecroft Lighting MIRAGE MX20

mirage attachments

IP44 Satin or Clear Disc

- IP44 protection
 - Satin or Clear diffuser for maximum comfort
 - High light output ratios for maximum efficiency
 - Allows architectural harmony with other areas
-



Cylinder

- No upward facing surface – does not harbour dust
 - Intermediate brightness zone
 - Long range visibility
 - Minimum efficiency disruption
-



Flush Ring

- Fully recessed
 - Intermediate brightness zone
 - Minimum efficiency disruption
 - Option with coloured inserts (RGB)
-



Floating Ring

- Invisible suspension – no shadows from fixings
 - Intermediate brightness zone
 - Long range visibility
 - Minimum efficiency disruption
 - Option with coloured inserts (RGB)
-



Cylinder Ring

- Architectural feature – adds presence to any application
 - Intermediate brightness zone
 - Long range visibility
 - Minimum efficiency disruption
 - Option with coloured inserts (RGB)
-



Inner Disc

- IP40 protection
 - Clear or satin for choice of aesthetics
 - Suitable for use with all ring attachments
-



Coloured Ring Inserts

- Red, green and blue inserts
- Create a dramatic appearance or compliment an interior scheme
- Ideal as a navigation aid



mirage attachments

Technical Louvre

- Injection moulded cross design
- Vacuum metalised specular finish
- 65° lamp cut off



Etched Glass Ring

- Feature glass is easily fitted via 3 metal clip-in pillars
- Long range visibility
- Etched pattern on glass



Order Codes

MX20

IP44 disc¹

Technical louvre¹

Etched glass ring¹

MXA20-IP44

MXA20-10

MXA20-61

MX24

IP44 disc²

IP44 clear disc²

Cylinder

Flush ring

Flush ring + coloured ring inserts (RGB)

Floating ring with clear sides

Floating ring with clear sides + floating coloured ring inserts (RGB)

Cylinder ring with satin sides

Cylinder ring with satin sides + floating coloured ring inserts (RGB)

Clear inner disc (IP40)^{2 3}

Satin inner disc (IP40)²

Technical louvre

Etched glass ring

MXA24-IP44

MXA24-IP44C

MXA24-2

MXA24-1

MXA24-1C

MXA24-3

MXA24-3C

MXA24-4

MXA24-4C

MXA24-IDC

MXA24-IDS

MXA24-10

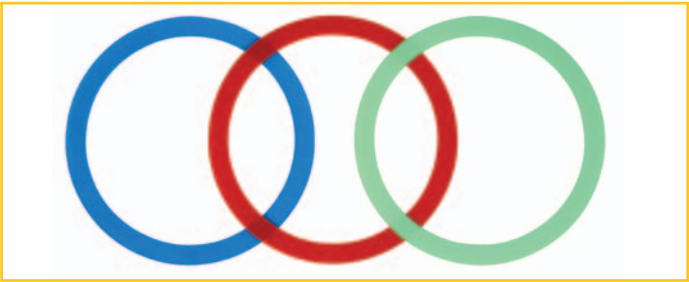
MXA24-61

Note:

¹ Only suitable for use with diamond facet reflector

² Not suitable for 2 x 42W luminaires

³ Accessory for flush ring, floating ring or cylinder ring



Coloured Ring Inserts



Inner Disc Installation





Optics

- Lamp options:
 - 1 x 13W TC-D
 - 1 or 2 x 18/26W TC-D
 - 1 or 2 x 32/42W TC-T
- Anodised aluminium reflectors, (except 13W – vacuum metalised)

Body

- One piece assembly with precision moulded bezel and gear housing
- 13W luminaire is supplied complete with IP44, TP(a) attachment which can be removed if not required
- 3 point fixing with rapid fix pull down straps
- IP44 fresnel lens with twist and lock location. Order separately for 18W or 26W versions
- Feature glass can be fitted via 3 pilot holes in rear of bezel
- For ceiling thickness of 1-25mm (13W) or 1-50mm (26-42W)

Order Codes

Esprit	HF Gear	3 hr Emergency
TC-D 1 x 13W	ESPH113	ESPH113EM
TC-D 1 x 18W	ESPH118	ESPH118EM
TC-D 2 x 18W	ESPH218	ESPH218EM
TC-D 1 x 26W	ESPH126	ESPH126EM
TC-D 2 x 26W	ESPH226	ESPH226EM
TC-T 1 x 32W	ESPH132	ESPH132EM
TC-T 2 x 32W	ESPH232	ESPH232EM
TC-T 1 x 42W	ESPH142	ESPH142EM
TC-T 2 x 42W	ESPH242	ESPH242EM

Options

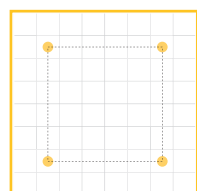
POLO FEATURE GLASS	18/26W ONLY	ESFG-2
POLO FEATURE GLASS	32/42W ONLY	ESFG-3
IP44 ATTACHMENT*	18/26W ONLY	ESIP44-2
DALI DIMMING	Replace H with Y	i.e. ESPY226
SWITCH DIMMING	Replace H with X	i.e. ESPX226
COMEPS	Add suffix /EP	i.e. ESPH226/EP
EASYTEST	Add suffix /ET	i.e. ESPH226/ET
COMET	Add suffix /CT	i.e. ESPH226/CT

Note: dimming not available on 13W version

*IP44 not available for 32/42W versions

Performance Guide

Lamps	Illuminance	Spacing
2 x 26W TC-D	230 lux	3.0m x 3.0m



Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.0m

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 13W TC-D	900	13,000hrs
1 x 18W TC-D	1200	13,000hrs
1 x 26W TC-D	1800	13,000hrs
1 x 32W TC-T	2400	13,000hrs
1 x 42W TC-T	3200	13,000hrs

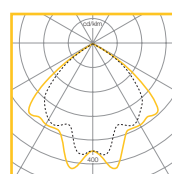


Polo Feature Glass

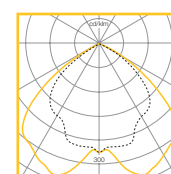


IP44 Cover

Photometric Performance



1 x 18W TC-D
• LOR = 76%
• SHR MAX = 1.82



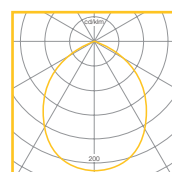
2 x 18W TC-D
• LOR = 69%
• SHR MAX = 1.96

Utilisation Factors UF(F)

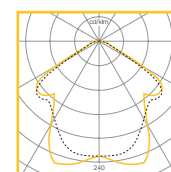
Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.65 0.80 0.83

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 0.72 0.75



2 x 18W TC-D
IP44 Diffuser
• LOR = 47%
• SHR MAX = 1.32



1 x 32W TC-T
• LOR = 60%
• SHR MAX = 1.18

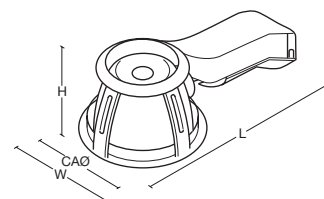
Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.34 0.46 0.49

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 0.58 0.62

Dimensions



Version	L	W	H	CAØ	KG	KG ☒
13W	268	165	80	150	0.3	1.3
18/26W	363	218	114	200	0.9	1.9
32/42W	445	275	150	250	1.8	2.8

To Specify

One piece construction compact fluorescent luminaire, with precision moulded gear housing, body and bezel. 13W < 81mm deep and 151mm cut aperture, 18W and 26W < 115mm deep and 201mm cut aperture, 32W and 42W < 151mm deep and 251mm cut aperture. 3 point rapid fix pull down straps – as Whitecroft Lighting ESPRIT

mirage MX wallwash

compact fluorescent
wallwasher



Optics

- Lamp options:
 - 1 or 2 x 26W TC-D
- Vacuum metalised specular asymmetric reflector
- Low glare in room direction, high cut off in direction of wall

Body

- Cast aluminium body with cast aluminium bezel painted white
- Integrated removable gear tray for HF and dimming versions
- 3 point fixing for ceilings 1mm-25mm
- Supplied with cut aperture support ring to simplify installation



Order Codes

Mirage MX Wallwash

TC-D 1 x 26W

TC-D 2 x 26W

HF Gear

MX24H126W

MX24H226W

Options

DALI DIMMING

Replace H with Y

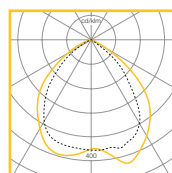
i.e. MX24Y126W

SWITCH DIMMING

Replace H with X

i.e. MX24X126W

Photometric Performance



2 x 26W TC-D
• LOR = 80.7%
• SHR MAX = 1.65

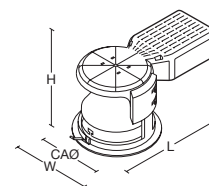
Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.66	0.82	0.86

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 26W TC-D	1800	13,000hrs

Dimensions



L	W	H	CAØ	KG
416	240	171	230	2.0

To Specify

Compact fluorescent downlighter with specular wallwash reflector, cast aluminium body, cast aluminium bezel finished white and integral control gear – as Whitecroft Lighting MIRAGE WALLWASH

mirage sx

surface mounted circular fluorescent downlighter



Optics

- Lamp options:
 - 1 or 2 x 26W TC-T
 - 1 or 2 x 32W TC-T
 - 1 or 2 x 42W TC-T
- Pure aluminium anodised low glare diamond facet optic

Body

- Spun aluminium body finished in white
- Three point fixing
- 20mm cable way
- Integrated low energy LED emergency (available with the long version only)

Order Codes

Short

TC-T 1 x 26/32/42W	Multi Watt Ballast	SXSH126-42
TC-T 2 x 26/32/42W	Multi Watt Ballast	SXSH226-42

Long

TC-T 1 x 26/32/42W	Multi Watt Ballast	SXLH126-42
TC-T 2 x 26/32/42W	Multi Watt Ballast	SXLH226-42

DALI Dimming (Long Version Only)

TC-T 1 x 26W	SXLY126
TC-T 1 x 32W	SXLY132
TC-T 1 x 42W	SXLY142
TC-T 2 x 26W	SXLY226
TC-T 2 x 32W	SXLY232
TC-T 2 x 42W	SXLY242

Options

EMERGENCY*	Add suffix /EM	i.e. SXLD126/ EM
EASYTEST*	Add suffix /ET	i.e. SXLD126/ ET
COMEPS*	Add suffix /EP	i.e. SXLD126/ EP

*Note: Emergency and dimming are not available in the short version

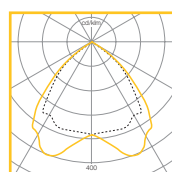


Low Energy Emergency LED



Short Body

Photometric Performance



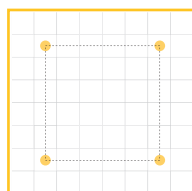
2 x 26W TC-T
Diamond Facet
Reflector
• LOR = 67%
• SHR MAX = 1.52

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	0.61	0.65

Performance Guide

Lamps	Illuminance	Spacing
2 x 26W TC-T	185 lux	3.0m x 3.0m

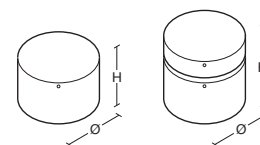


Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.0m

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 26W TC-T	1800	13,000hrs
1 x 32W TC-T	2400	13,000hrs
1 x 42W TC-T	3200	13,000hrs

Dimensions



Version	Ø	H	KG	KG
Short	255	205	1.3	–
Long	255	275	2.1	2.6

To Specify

Surface mounted downlight with spun aluminium body and pure aluminium diamond facet reflector – as Whitecroft Lighting MIRAGE SX

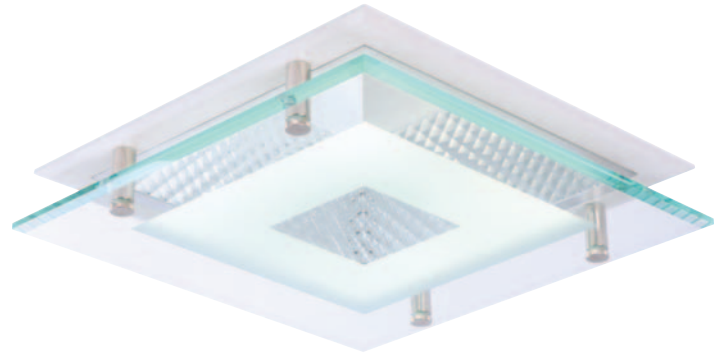


Optics

- Lamp options:
 - 1 x 26/32/42W TC-T, utilising HF multi-watt ballast
 - Emergency and dimming versions utilise specific wattage ballasts
- Faceted vacuum metalised reflector
- Optional version with decorative feature glass

Body

- Square recessed downlighter
- Injection moulded flame retardant polycarbonate body with white die cast bezel
- Fitting is supplied complete with a 2m lead with free stripped ends
- Suitable for ceiling thickness of 1-25mm



Without Feature Glass

Order Codes

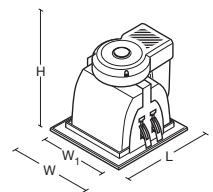
SQ (Standard) HF Gear
TC-T 1 x 26/32/42W Multi-Watt Ballast **SQH126-42**

SQ (Emergency) 3 hr Emergency
TC-T 1 x 26W **SQH126EM**
TC-T 1 x 32W **SQH132EM**
TC-T 1 x 42W **SQH142EM**

Options (For dimming and emergency options, the wattage must be specified)

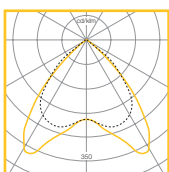
DALI DIMMING	Replace H126-42 with Y126, Y132 or Y142	i.e. SQY126
SWITCH DIMMING	Replace H126-42 with X126, X132 or X142	i.e. SQX126
EASYTEST	Add suffix /ET	i.e. SQH126/ET
COMET	Add suffix /CT	i.e. SQH126/CT
FEATURE GLASS	Add suffix FG	i.e. SQH126FG

Dimensions



L	W	H	W ₁	KG	KG
244	244	192	210	1.5	2.8

Photometric Performance



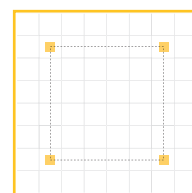
1 x 42W TC-D
• LOR = 62.1%
• SHR MAX = 1.81

Utilisation Factors UF(F)

Room Reflectance	Room Index				
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.48	0.63	0.67

Performance Guide

Lamps	Illuminance	Spacing
1 x 42W TC-T	200 lux	3.0m x 3.0m



Maintenance: 0.8
Reflectance: 70/50/20
Ceiling Height: 2.7m
Working Plane: 0.0m

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 26W TC-T	1800	13,000hrs
1 x 32W TC-T	2400	13,000hrs
1 x 42W TC-T	3200	13,000hrs

To Specify

Square compact fluorescent downlighter with faceted reflector, die cast bezel and polycarbonate body – as Whitecroft Lighting SQ



Optics

- Lamp options:
 - Small bezel diameter (Ø 192 mm)
 - 1 x 35W, 70W or 150W CDM-T head.
 - 1 x 26W, 32W or 42W TC-T
 - 2 x 26W TC-D HF
 - Large bezel diameter (Ø 237 mm)
 - 2 x 26W, 32W or 42W TC-T
- Faceted aluminium reflector

Body

- IP65 from front. IP20 from behind
- Injection moulded flame retardant polycarbonate body
- Toughened glass cover with die cast bezel painted white, secured with tamperproof fixings
- Fluorescent fittings are supplied complete with 2m lead with free stripped ends. CDM fittings include lead with ST18/3 plug for connection to gearbox
- Suitable for ceiling thickness of 1-25mm

Order Codes

CDM-T Lamps Small 192mm Ø

CDM-T 1 x 35/70/150W	Multi-Lamp Housing	HF Gear
35W electronic gearbox		C65S35-150C
70W electronic gearbox		GB-C35E-P
150W electronic gearbox		GB-C70E-P
		GB-C15E-P

Fluorescent HF Small 192mm Ø

TC-T 1 x 26/32/42W	Multi-Watt Ballast	HF Gear
TC-D 2 x 26W		C65SH126-42
		C65SH226

Fluorescent HF Small 192mm Ø

TC-T 1 x 26W	3 hr Emergency
TC-T 1 x 32W	C65SH126EM
TC-T 1 x 42W	C65SH132EM
TC-D 2 x 26W	C65SH142EM
	C65SH226EM

Fluorescent HF Large 237mm Ø

TC-T 2 x 26/32/42W	Multi-Watt Ballast	HF Gear
		C65LH226-42

Fluorescent HF Large 237mm Ø

TC-T 2 x 26W	3 hr Emergency
TC-T 2 x 32W	C65LH226EM
TC-T 2 x 42W	C65LH232EM
	C65LH242EM

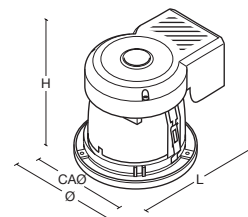
Options (Fluorescent Only)

DALI DIMMING	Replace H126-42 with Y126, Y132 or Y142	i.e. C65SY126
SWITCH DIMMING	Replace H126-42 with X126, X132 or X142	i.e. C65SX126
COMEPS	Add suffix /EP	i.e. C65SH126/EP
EASYTEST	Add suffix /ET	i.e. C65SH126/ET
COMET	Add suffix /CT	i.e. C65SH126/CT
ACCESS & FIXING TOOL		C65-KEY

Note: For dimming and emergency options, the wattage must be specified

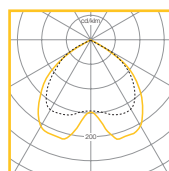


Dimensions

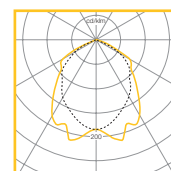


Version	Ø	CAØ	H	L	KG	KG ½
Fluorescent small 192	192	176	145	220	1.5	2.5
Fluorescent large	237	222	205	250	2.1	3.4
CDM-T small	192	176	180	220	1.2	—
Gearbox	—	—	250	250	2	—

Photometric Performance



2 x 42W TC-D
237mm Diameter
• LOR = 45.7%
• SHR MAX = 1.99



2 x 26W TC-D
192mm Diameter
• LOR = 42.0%
• SHR MAX = 1.61

Utilisation Factors UF(F)

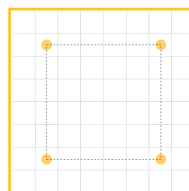
Room Reflectance	C	W	F	Room Index	1.00	3.00	5.00
	0.70	0.50	0.20	0.33	0.45	0.48	

Utilisation Factors UF(F)

Room Reflectance	C	W	F	Room Index	1.00	3.00	5.00
	0.70	0.50	0.20	0.32	0.42	0.45	

Performance Guide

Lamps	Illuminance	Spacing
2 x 26W TC-T	240 lux	3.0m x 3.0m



Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.0m

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 26W TC-D	1800	13,000hrs
1 x 26W TC-T	1800	13,000hrs
1 x 32W TC-T	2400	13,000hrs
1 x 42W TC-T	3200	13,000hrs
1 x 35W CDM-T	3300	12,000hrs
1 x 70W CDM-T	6600	12,000hrs
1 x 150W CDM-T	14000	12,000hrs

To Specify

IP65 compact fluorescent or CDM-T downlighter with polycarbonate body, faceted aluminium reflector and cast bezel, finished white, secured with tamper-proof fixings – as Whitecroft Lighting CIRCO IP65



Optics

- Two different sized heads:
 - Circo Flex 190 for 35/70W CDM-T or 100W White SON
 - Circo Flex 145 for 20/35W CDM-Tm
- CDM available with medium or wide distribution
- SON wide distribution only
- Specular anodised aluminium reflector with integral safety glass

Body

- Die cast aluminium body painted white
- Easy installation using spring clips
- 360° swivel and adjustable tilt. 0-60°
- Supplied with ST18/3 plug for electronic gearbox connection.
(Order gearbox separately)
- Suitable for ceiling thickness of 3-20mm



Order Codes

Circo Flex 145
CDM-Tm 20/35W

Wide Reflector
FLX-C20-35-W

Medium Reflector
FLX-C20-35-M

Circo Flex 190
CDM-T 35/70W
SON WHITE 100W

Wide Reflector
FLX-C35-70-W
FLX-S100-W

Medium Reflector
FLX-C35-70-M
-

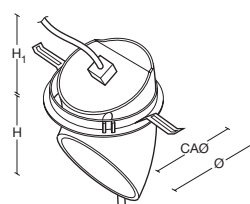
Gearbox

CDM-Tm 20W
CDM-Tm 35W
CDM 35W
CDM 70W
SON WHITE 100W

Electronic

GB-C20TME-P
GB-C35TME-P
GB-C35E-P
GB-C70E-P
GB-S100E-P

Dimensions



Version	H	H ₁	Ø	CAØ	KG
Circo Flex 190	128	132	190	180	0.8
Circo Flex 145	92	96	146	140	0.4

Photometric Performance

70W CDM-T			70W CDM-T			20W CDM-Tm			20W CDM-Tm		
M	LUX	Ø	M	LUX	Ø	M	LUX	Ø	M	LUX	Ø
1.0m	18995	0.5	1.0m	5369	1.1	1.0m	4882	0.6	1.0m	1160	1.5
2.0m	4748	1.1	2.0m	1342	2.1	2.0m	1220	1.3	2.0m	290	2.9
3.0m	2110	1.6	3.0m	596	3.2	3.0m	542	1.9	3.0m	129	4.4
4.0m	1187	2.1	4.0m	335	4.2	4.0m	305	2.5	4.0m	73	5.8
Medium 30°			Wide 56°			Medium 40°			Wide 71°		

To Specify

Circo Flex 145
Directional downlighter for 20W or 35W CDM-Tm. Die cast aluminium body painted white with 146mm Ø bezel and specular aluminium reflector giving medium (40°) or wide (71°) distribution. With 360° swivel and 0-60° tilt – as Whitecroft Lighting CIRCO FLEX 145

Circo Flex 190
Directional downlighter for 35W or 70W CDM-T or 100W STH lamp. Die cast aluminium body painted white with 190mm Ø bezel and specular aluminium reflector giving medium (30°) or wide (56°) distribution. With 360° swivel and 0-60° tilt – as Whitecroft Lighting CIRCO FLEX 190



Beers
Wines
Spirits

FAIRTRADE
WINE

Fairtrade Espresso

Lager

HALF
PRICE

BUY

The
co-operative
deal

The
co-operative
deal



Optics

- Two different sized heads:
 - Circo Fast 125 for 20/35W CDM-Tm
 - Circo Fast 190 for 35/70/150W CDM-T or 100W White SON
- CDM available with medium or wide distribution
- SON wide distribution only
- Specular anodised aluminium reflector with integral safety glass

Body

- Bezel painted white
- Easy installation using spring clips
- Supplied with ST18/3 plug for electronic gearbox connection.
(Order gearbox separately)
- Suitable for ceiling thickness of 3-20mm



Order Codes

Circo Fast 125
CDM-Tm 20/35W

Wide Reflector
FAS-C20-35-W

Medium Reflector
FAS-C20-35-M

Circo Fast 190
CDM-T 35/70/150W
SON WHITE 100W

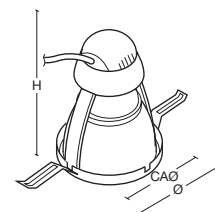
Wide Reflector
FAS-C35-150-W
FAS-S100-W

Medium Reflector
FAS-C35-150-M
-

Gearbox
CDM-Tm 20W
CDM-Tm 35W
CDM 35W
CDM 70W
CDM 150W
SON WHITE 100W

HF
GB-C20TME-P
GB-C35TME-P
GB-C35E-P
GB-C70E-P
GB-C15E-P
GB-S100E-P

Dimensions



Version	H	Ø	CAØ	KG
Circo Fast 125	133	125	118	1.8
Circo Fast 190	203	190	175	2.4

Photometric Performance

70W CDM-T				70W CDM-T				20W CDM-Tm				20W CDM-Tm					
M	LUX	70W	Ø	M	LUX	70W	Ø	M	LUX	20W	Ø	M	LUX	20W	Ø		
1.0m	13296	0.7	1.0m	5198	1.4	1.0m	6187	0.5	1.0m	1279	1.3	1.0m	320	2.7	1.0m	80	5.4
2.0m	3324	1.4	2.0m	1300	2.8	2.0m	1547	0.9	2.0m	320	2.7	2.0m	80	5.4	2.0m	80	5.4
3.0m	1477	2.2	3.0m	578	4.3	3.0m	687	1.4	3.0m	142	4.0	3.0m	142	4.0	3.0m	80	5.4
4.0m	831	2.9	4.0m	325	5.7	4.0m	387	1.9	4.0m	80	5.4	4.0m	80	5.4	4.0m	80	5.4
Medium 40°				Wide 71°				Medium 26°				Wide 68°					

To Specify

Circo Fast 125
Fixed downlighter for 20W or 35W CDM-Tm. Die cast aluminium body with white 126mm Ø bezel and specular aluminium reflector giving medium (40°) or wide (71°) distribution – as Whitecroft Lighting CIRCO FAST 125

Circo Fast 190
Fixed downlighter for 35/70/150W CDM-T or 100W STH lamp. Die cast aluminium body with white 188mm Ø bezel and specular aluminium reflector giving medium (40°) or wide (71°) CDM/62° SON distribution – as Whitecroft Lighting CIRCO FAST 190

LDR LED micro tilt

directional LED downlighter

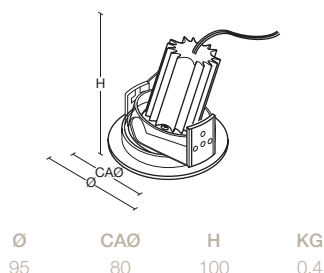


Order Codes

LDR LED Micro Tilt	Finish	Spot Lens	Flood Lens
3 x 1W White	White	LDRLEDWS31W	LDRLEDWF31W
3 x 1W White	Chrome	LDRLEDWS31C	LDRLEDWF31C
3 x 1W RGB	White	–	LDRLEDRGB31W
3 x 1W RGB	Chrome	–	LDRLEDRGB31C
3 x 3W RGB	White	–	LDRLEDRGB33W
3 x 3W RGB	Chrome	–	LDRLEDRGB33C
Driver (for white)			
Runs upto 3 fittings		3 x 1W Driver	CNPLU/3501-9
Driver (for RGB)			
Runs upto 9, 3 x 1W or 2, 3 x 3W		18W RGB Driver	CNRGBOX
Dimmable Driver (for white)			
Runs upto 3, 3 x 1W		18W Driver	CNPLDUN1350
See page 74 for RGB control specification			
Junction box for series connection (for RGB)			
			CNJB3



Dimensions



To Specify

Recessed directional white or RGB LED downlight with 95mm diameter die cast white bezel, aluminium body and LED surround. Beam angle to be 5° – 50°, to accommodate ceiling thicknesses of 3 – 17mm – as Whitecroft Lighting LDR LED Micro Tilt

LDR LED IP65

IP65 LED downlighter



Optics

- 4000K
- 7 LEDs running at 700mA = 18W system power
- Opaque glass front for maximum glare control
- 50,000 hours life expectancy

Body

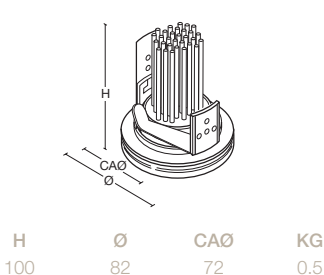
- Micro IP65 82mm Ø bezel
- Bezel finished white or chrome
- For ceiling thickness:
 - 3mm to 17mm

Order Codes

LDR LED IP65	
White	LDRLEDIP65-4KW
Chrome	LDRLEDIP65-4KC



Dimensions



To Specify

Recessed high output single bin LED downlight with bezel Ø <82mm and depth <100mm. Die cast aluminium body finished white or chrome complete with driver. IP65 from below ceiling – as Whitecroft Lighting LDR LED IP65