



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 (10W*)
 - 2000 lumens (22W*)
 - 3000 lumens (29W*)

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

- Supplied complete with specular reflector
- Available in 3000K and 4000K
- 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 comes 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 (18W)	MLB114KCMP	-

Mirage LED Compact (order driver separately)	Fixed Output	3 hr Emergency
1100 lumen (10W)	MLA114KCMP	MLA114KCMPEM
2000 lumen (22W)	MLA204KCMP	MLA204KCMPEM
3000 lumen (29W)	MLA304KCMP	MLA304KCMPEM

Mirage LED Comfort (order driver separately)	Fixed Output	3 hr Emergency
1100 lumen (10W)	MLA114KCFT	MLA114KCFTEM
2000 lumen (22W)	MLA204KCFT	MLA204KCFTEM
3000 lumen (29W)	MLA304KCFT	MLA304KCFTEM

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



LED Light Engine



Anti-Glare Control Insert



Quick Fix Spring System



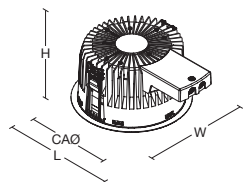
Integra Module



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
Driver	220	83	35	-	0.3	-

LED Performance

Output	Ra (CRI)	Life Expectancy	Colour Consistency
1100 lumen	≥ 80	L ₈₀ (50,000hrs)	MacAdam 3 SDCM
2000 lumen	≥ 80	L ₈₀ (50,000hrs)	MacAdam 3 SDCM
3000 lumen	≥ 80	L ₈₀ (50,000hrs)	MacAdam 3 SDCM
1100 lumen - Integra	≥ 80	L ₈₂ (50,000hrs)	MacAdam 3 SDCM

Equivalent Lamp Types

1100 Lumen Output

Compact fluorescent 1 x 18/26W

2000 Lumen Output

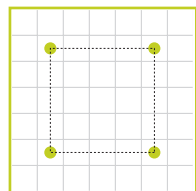
Compact fluorescent 1 x 32/42W
2 x 26W

3000 Lumen Output

Compact fluorescent 2 x 32W

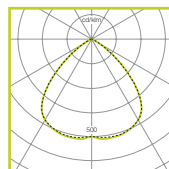
Performance Guide

Lamps	Illuminance	Spacing
22W LED	200 lux	3.0m x 3.0m



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

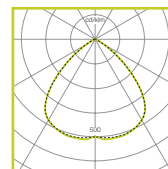
Photometric Performance



10W LED
Compact
1100 lumens
4000K
• LOR = 100%
• SHR MAX = 1.93

Utilisation Factors UF(F)

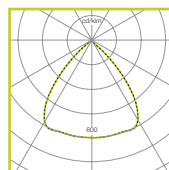
Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.87 1.05 1.09



22W LED
Compact
2000 lumens
4000K
• LOR = 100%
• SHR MAX = 1.93

Utilisation Factors UF(F)

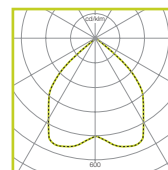
Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.87 1.05 1.09



22W LED
Comfort
2000 lumens
4000K
• LOR = 100%
• SHR MAX = 1.75

Utilisation Factors UF(F)

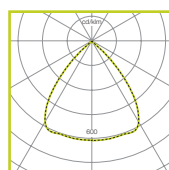
Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.80 1.03 1.08



22W LED
Comfort
Cylinder attachment
2000 lumens
4000K
• LOR = 100%
• SHR MAX = 1.93

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.88 1.05 1.09



29W LED
Comfort
3000 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	0.94 1.01 1.11

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