



FOUR SEASONS HOTEL, PARK LANE, LONDON
L3370

LIGHTING EQUIPMENT SPECIFICATION:
SUITES & GUESTROOMS

Revision: 04
FOR CONSTRUCTION

04/09/2009

PREAMBLE

1. GENERAL CONDITIONS

- 1.1 The specification sheets indicating the lighting design requirements for specific areas within this project form part of this document and should be read in conjunction with these preambles and the Lighting Consultant's relevant drawings, and associated sketches.
- 1.2 This specification supersedes all previous issues.

2. STANDARDS COMPLIANCE

- 2.1 For projects in the United Kingdom, all equipment supplied shall comply with the relevant BS, EN, IEC, and C.E. requirements, and be capable of installation in accordance with the manufacturers' instructions, the current edition of the IEE Wiring Regulations and all statutory and local authority requirements. Standard requirements particular to individual luminaire types are indicated on the relevant specification sheet.
- 2.2 Notwithstanding the above, the following British Standards in particular should be checked for compliance:
 - BS 559 Electric signs and high voltage luminous discharge tube installations.
 - BS 3535 Safety isolating transformers for industrial and domestic purposes.
 - BS 4533 Luminaires.
- 2.3 All wiring is to be carried out in accordance with the current IEE Wiring Regulations or the relevant national standards.
- 2.4 For projects outside the United Kingdom, all equipment supplied shall comply with the relevant standards currently in force in the project's country of origin.
- 2.5 The cost of obtaining any necessary approvals shall be included in any tender price, detailed as a separate item.

3. SAMPLES & PROTOTYPES

- 3.1 The Electrical Contractor shall provide samples of all luminaires for approval, including installation in mock-ups, as required.
- 3.2 Should a sample of a standard, or prototype of a special luminaire or variant of a standard luminaire be ordered, its cost shall either be incorporated in a tender price, or shall be invoiced to the Client or his nominated representative separately, as agreed.
- 3.3 Any such sample prototype or variant shall comply with the lighting design specification, and shall be submitted to the Lighting Consultant, together with full photometric and dimensional data if specifically requested, to enable both its accurate assessment and the detailing of any adjustments deemed necessary prior to the commencement of full production.

4. PROTECTION

- 4.1 All equipment shall be supplied with adequate means of protection to ensure its preservation during transport to site and any subsequent storage prior to installation.
- 4.2 All vulnerable finished parts liable to scratching or other abrasion during handling and installation shall be further protected by a removable film applied prior to dispatch.

5. GUARANTEES

- 5.1 All equipment and components supplied shall be guaranteed against failure due to poor workmanship, materials, or luminaire design, for a period of not less than 18 months from the date of delivery to site or 12 months from the date of practical completion, whichever is the sooner, with the exception of lamps which shall be covered only by their manufacturer's normal assurances as to life expectancy and performance.

6. TECHNICAL REQUIREMENTS

6.1 Luminaires

- 6.1.1 Equipment selected as a standard item from a particular manufacturer's range has been specified with a view to performance, optics, maintenance, quality, aesthetics, etc.
- 6.1.2 Should alternative equipment be offered, full technical and photometric data shall be supplied to DPA LIGHTING DESIGN in time to enable its accurate assessment. If any variants of standard luminaires are required, these shall be developed by the manufacturer of the standard luminaire, unless otherwise specifically stated, and shall be manufactured to the same standards as the equivalent standard luminaire.
- 6.1.3 Two copies of all working drawings of proposed variants, dimensioned in mm, shall be supplied to DPA LIGHTING DESIGN for approval prior to fabrication.
- 6.1.4 Notwithstanding the above, the manufacturer shall remain responsible for ensuring compliance with relevant standards, the accuracy of the information shown on his drawings at all times and for ensuring that the equipment shown fulfils the requirements of this specification.
- 6.1.5 DPA LIGHTING DESIGN cannot accept responsibility for the installation of non-approved luminaires.
- 6.1.6 The final location of each luminaire and where relevant its integration with the architecture shall be as detailed on the construction issue drawings. DPA LIGHTING DESIGN cannot accept responsibility for luminaires installed in a manner other than intimated in the relevant drawings or as otherwise agreed and noted in writing.
- 6.1.7 All quantities are to be checked against the appropriate drawings by the Electrical Contractor.
- 6.1.8 The Electrical Contractor is to verify the dimensions required for all cold cathode, linear LED, linear xenon and fibre optic installations prior to order.

6.2 Control Gear

- 6.2.1 All necessary control gear and transformers shall be mounted within the luminaire unless shown as being located remotely. All such gear shall be of good quality construction, shall comply with all relevant statutory regulations, shall be compatible with the lamps specified, and shall be mounted and wired in accordance with the manufacturers' instructions.
- 6.2.2 All control gear, transformers and emergency battery packs for ceiling recessed fittings are to be accessed through the ceiling cut out unless it is stated otherwise in the specification.
- 6.2.3 The Electrical Contractor is to ensure the correct supply voltage is provided at the lamp.
- 6.2.4 The Electrical Contractor shall ensure compatibility between control gear, transformers and emergency battery packs and the specified lighting control system.
- 6.2.5 Unless otherwise stated, all transformers shall be suitable for dimming on their primary side via a thyristor controlled remote lighting control system.
- 6.2.6 All transformers are specified for each individual fitting (unless indicated otherwise).

- 6.2.7 Transformers can either be toroidal wire wound or electronic. If electronic, the preferred manufacturer is either Intram Barwell or Mode Lighting. Alternatively, the light fitting supplier may also supply the transformer with their fitting, provided that it is of good quality.
- 6.2.8 All transformers are to include thermal overload and short-circuit protection.
- 6.2.9 Low voltage transformers with nominal 12 volts output shall provide 11.4 volts actual and 24 volts nominal shall provide 22.8 volts.
- 6.2.10 Where gear or transformers are installed remotely, care should be taken to ensure that any audible sounds generated by control gear, or by lamp filaments via control gear are kept to a minimum. Where this is particularly crucial, detailed acoustic requirements are included in the Specific Conditions.
- 6.2.11 All equipment shall be protected from unexpected mains failure, and mains borne interference.
- 6.2.12 Electrical supply connections shall be designed to facilitate the easy installation of the luminaires. The supplier shall liaise with the Electrical Engineer to ensure any specific requirements of his in this respect are met.

6.3 Lamps

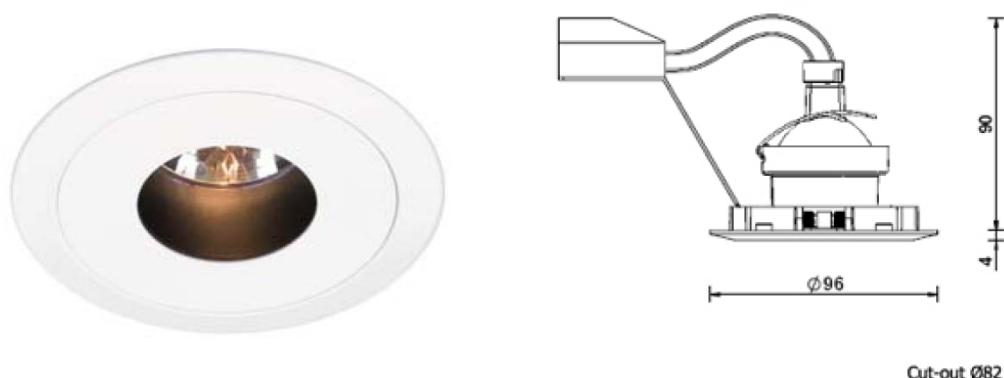
- 6.3.1 Incandescent and tungsten halogen lamps shall not be operated, other than for initial testing, prior to final inspection.
- 6.3.2 Lamps are generally specified by manufacturers name (e.g. Osram). Should alternative lamps be offered, these may be substituted without the approval of DPA LIGHTING DESIGN except where noted below, provided particular attention is paid to lumen output, colour rendering, colour temperature, light distribution, life expectancy and general performance when selecting such alternatives.
- 6.3.3 For fluorescent and HID sources, alternative lamps may only be substituted if full technical data is first supplied to DPA LIGHTING DESIGN to enable their accurate assessment and approval.
- 6.3.4 For low voltage reflector lamps, alternatives may only be substituted where the lamp has the same beam angle, peak intensity, lamp cover and shield characteristics as the lamp specified.

7. COMMISSIONING

- 7.1 The final focussing and scene setting of the installation must be undertaken with DPA LIGHTING DESIGN and a lighting control technician in attendance. The programming of a lighting control system with a written lighting scene schedule shall not constitute completion.
- 7.2 The Electrical Contractor is to ensure that adequate personnel and all necessary access equipment are provided for such scene setting and focussing as are required to commission the installation.

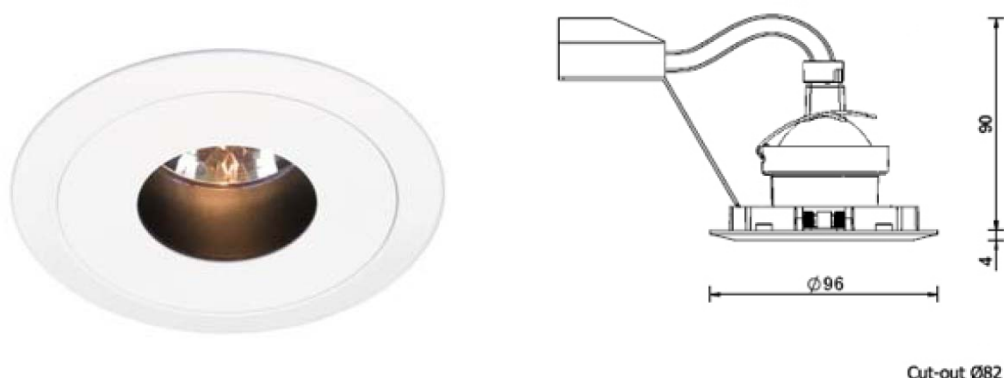
Luminaire Reference:	RD1
Manufacturer's Ref:	Cube lighting STAT 3/50, fixed DOWNLIGHT; ref: STR3/50/RAL 9016
Accessories:	Complete with 60VA 12V remote electronic transformer. Frosted glass; ref. GL49 / FR
Luminaire Location:	Ceiling recessed
Luminaire Description:	MR16 Tungsten halogen, deep recessed, fixed downlight with magnetic inner bezel.
	IP20
	Remote dimmable transformer: 240V/12V universally dimmable electronic transformer. To have thermal overload and short-circuit protection. To be mounted in accessible and ventilated location. To be compatible with control system – supplier to check this before delivering to site.
Dimensions:	Recess Depth: 90mm, Cut-Out Diameter: 82mm, Bezel diameter: 96mm.
Finish:	White, RAL 9016
Fixing Method:	Recessed into ceiling, retained with springs.
Lamps:	35W Tungsten halogen dichroic reflector IRC 1 x OSRAM DECOSTAR 51 Energy Saver, ref.: 48865 ES WFL 35W/12V, Beam angle: 36°, Lamp Base: GU5.3, Colour Temperature: 3000K, Colour Rendering: CRI> 90, Average Rated Life: 5,000 hours

Luminaire Illustration:



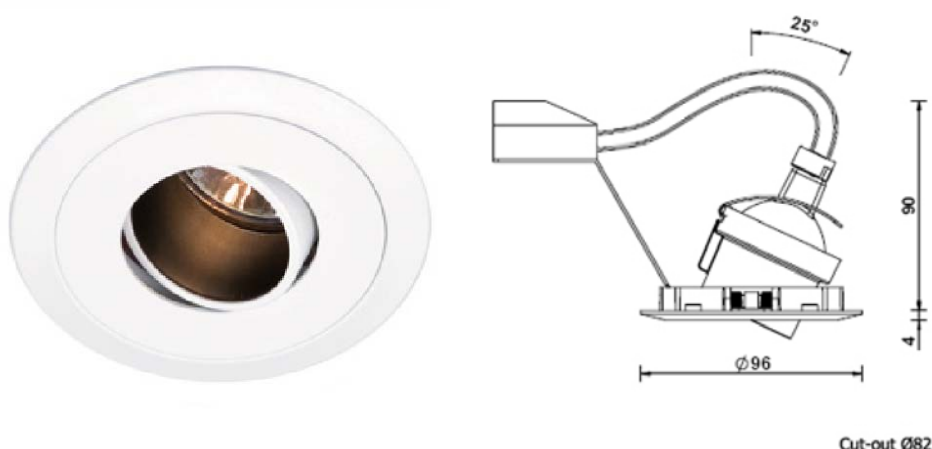
Luminaire Reference:	RD1a
Manufacturer's Ref:	Cube lighting STAT 3/50, fixed DOWNLIGHT; ref: STR3/50/PCH
Accessories:	Complete with 60VA 12V remote electronic transformer. Frosted glass; ref. GL49 / FR
Luminaire Location:	Recessed into timber Soffits
Luminaire Description:	MR16 Tungsten halogen, deep recessed, fixed down light with magnetic inner bezel.
	IP20
	Remote dimmable transformer: 240V/12V universally dimmable electronic transformer. To have thermal overload and short-circuit protection. To be mounted in accessible and ventilated location. To be compatible with control system – supplier to check this before delivering to site.
Dimensions:	Recess Depth: 90mm, Cut-Out Diameter: 82mm, Bezel diameter: 96mm.
Finish:	Polished Chrome
Fixing Method:	Recessed into ceiling, retained with springs.
Lamps:	35W Tungsten halogen dichroic reflector IRC 1 x OSRAM DECOSTAR 51 Energy Saver, ref.: 48865 ES WFL 35W/12V, Beam angle: 36°, Lamp Base: GU5.3, Colour Temperature: 3000K, Colour Rendering: CRI> 90, Average Rated Life: 5,000 hours

Luminaire Illustration:



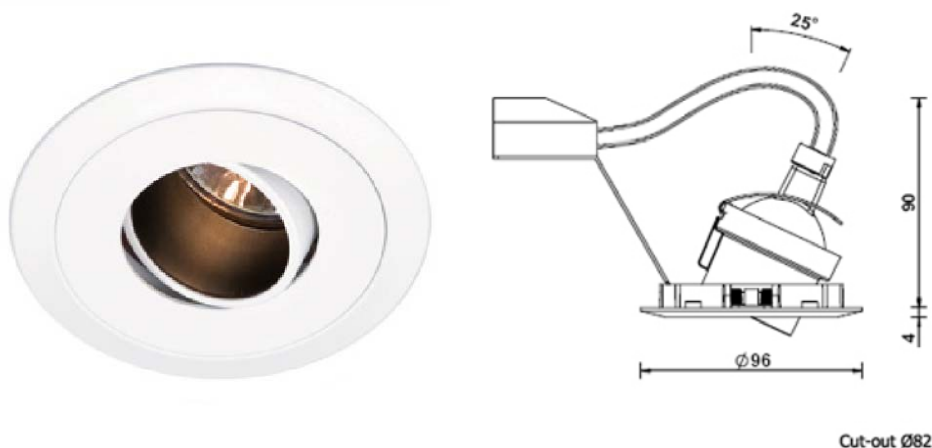
Luminaire Reference:	RD2
Manufacturer's Ref:	Cube lighting FLIP 3/50 adjustable DOWNLIGHT, ref: FLR3/50/RAL 9016
Accessories:	Complete with 60VA 12V remote electronic transformer. Frosted glass; ref. GL49 / FR
Luminaire Location:	Ceiling recessed
Luminaire Description:	MR16 Tungsten halogen, deep recessed, directional downlight with magnetic inner bezel.
	IP20
	Remote dimmable transformer: 240V/12V universally dimmable electronic transformer. To have thermal overload and short-circuit protection. To be mounted in accessible and ventilated location. To be compatible with control system – supplier to check this before delivering to site.
Dimensions:	Recess Depth: 90mm, Cut-Out Diameter: 82mm, Bezel diameter: 96mm.
Finish:	White, RAL 9016
Fixing Method:	Recessed into ceiling, retained with springs.
Lamps:	35W Tungsten halogen dichroic reflector IRC 1 x OSRAM DECOSTAR 51 Energy Saver, ref.: 48865 ES FL 35W/12V, Beam angle: 24°, Lamp Base: GU5.3, Colour Temperature: 3000K, Colour Rendering: CRI> 90, Average Rated Life: 5,000 hours

Luminaire Illustration:



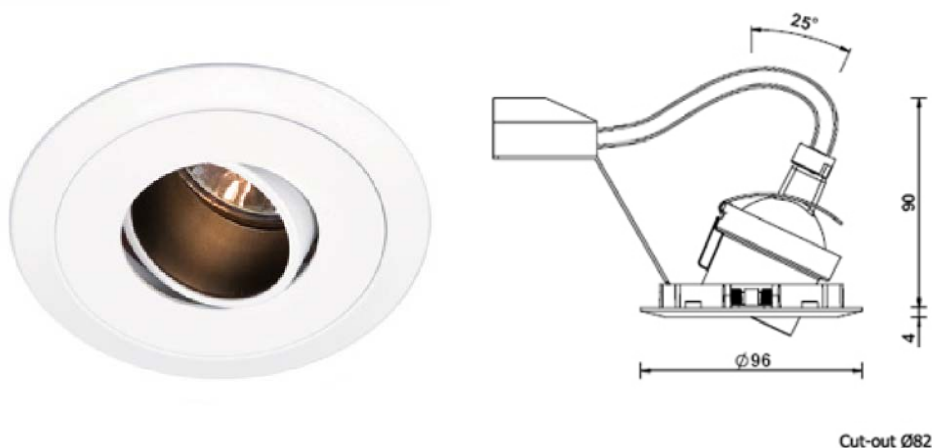
Luminaire Reference:	RD2a
Manufacturer's Ref:	Cube lighting FLIP 3/50 adjustable DOWNLIGHT, ref: FLR3/50/PCH
Accessories:	Complete with 60VA 12V remote electronic transformer. Frosted glass; ref. GL49 / FR
Luminaire Location:	Ceiling recessed
Luminaire Description:	MR16 Tungsten halogen, deep recessed, directional downlight with magnetic inner bezel.
	IP20
	Remote dimmable transformer: 240V/12V universally dimmable electronic transformer. To have thermal overload and short-circuit protection. To be mounted in accessible and ventilated location. To be compatible with control system – supplier to check this before delivering to site.
Dimensions:	Recess Depth: 90mm, Cut-Out Diameter: 82mm, Bezel diameter: 96mm.
Finish:	Polished Chrome
Fixing Method:	Recessed into ceiling, retained with springs.
Lamps:	35W Tungsten halogen dichroic reflector IRC 1 x OSRAM DECOSTAR 51 Energy Saver, ref.: 48865 ES FL 35W/12V, Beam angle: 24°, Lamp Base: GU5.3, Colour Temperature: 3000K, Colour Rendering: CRI> 90, Average Rated Life: 5,000 hours

Luminaire Illustration:



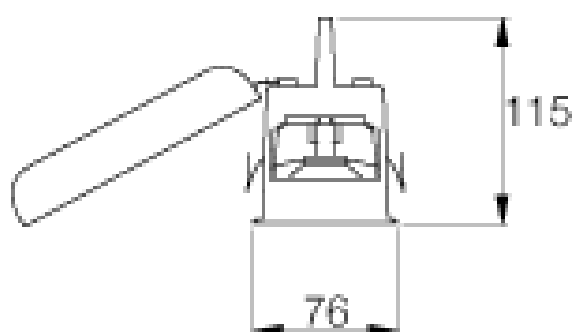
Luminaire Reference:	RD2b
Manufacturer's Ref:	Cube lighting FLIP 3/50 adjustable DOWNLIGHT, ref: FLR3/50/PCH
Accessories:	Complete with 60VA 12V remote electronic transformer. Frosted glass; ref. GL49 / FR (to be supplied with 'lamp kit')
Luminaire Location:	Ceiling recessed
Luminaire Description:	MR16 Tungsten halogen, deep recessed, directional downlight with magnetic inner bezel.
	IP20
	Remote dimmable transformer: 240V/12V universally dimmable electronic transformer. To have thermal overload and short-circuit protection. To be mounted in accessible and ventilated location. To be compatible with control system – supplier to check this before delivering to site.
Dimensions:	Recess Depth: 90mm, Cut-Out Diameter: 82mm, Bezel diameter: 96mm.
Finish:	Polished Chrome
Fixing Method:	Recessed into ceiling, retained with springs.
Lamps:	35W Tungsten halogen dichroic reflector IRC 1 x OSRAM DECOSTAR 51 Energy Saver, ref.: 48865 ES WFL 35W/12V, Beam angle: 36°, Lamp Base: GU5.3, Colour Temperature: 3000K, Colour Rendering: CRI> 90, Average Rated Life: 5,000 hours

Luminaire Illustration:



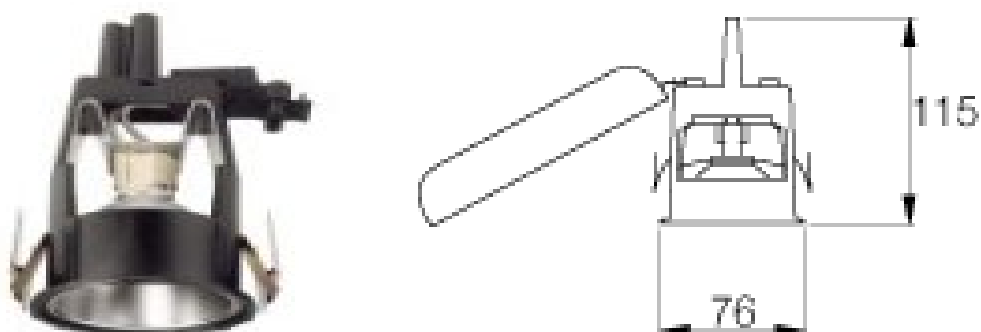
Luminaire Reference:	RD3
Manufacturer's Ref:	Concord: Marlin Myriad 50, ref: 2029621, Shallow housing, 40° reflector
Accessories:	Complete with opal dish diffuser; ref. 2017375VAR & integral 240V/12V electronic dimmable transformer.
Luminaire Location:	Ceiling recessed
Luminaire Description:	Fixed tungsten halogen downlight with 40 deg silver reflector.
	IP44
Dimensions:	Recess depth: 115mm, Cut-out diameter: 76mm.
Finish:	White bezel, RAL 9016
Fixing Method:	Recessed into ceiling, retained with springs.
Lamps:	OSRAM, Halostar Energy Saver, ref: 64432 ES 12V/35W, Tungsten halogen capsule, GY6.35, axial filament Colour temperature: 3000K (warm white), average rated life: 4,000 hours.

Luminaire Illustration:



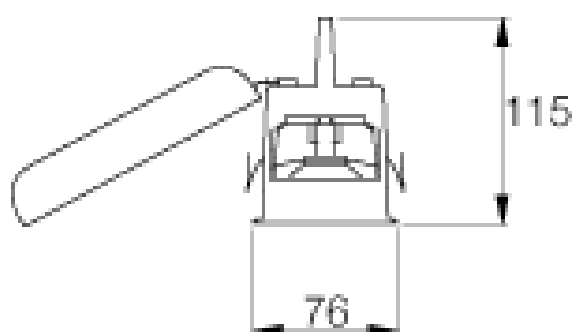
Luminaire Reference:	RD3a
Manufacturer's Ref:	Concord: Marlin Myriad 50, ref: 2029621, Shallow housing, 40° reflector
Accessories:	Complete with opal dish diffuser with bright chrome trim; ref. 2017373 integral 240V/12V electronic dimmable transformer.
Luminaire Location:	Recessed into timber soffits
Luminaire Description:	Fixed tungsten halogen down light with 40 deg silver reflector.
	IP44
Dimensions:	Recess depth: 115mm, Cut-out diameter: 76mm.
Finish:	Bezel in bright chrome finish
Fixing Method:	Recessed into ceiling, retained with springs.
Lamps:	OSRAM, Halostar Energy Saver, ref: 64432 ES 12V/35W, Tungsten halogen capsule, GY6.35, axial filament Colour temperature: 3000K (warm white), average rated life: 4,000 hours.

Luminaire Illustration:



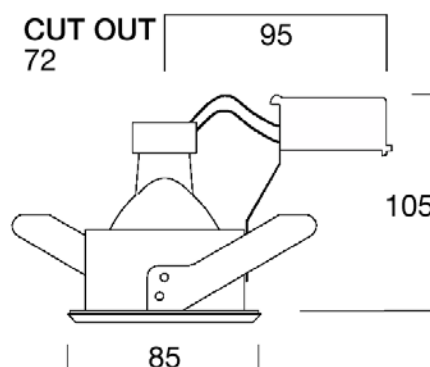
Luminaire Reference:	RD4
Manufacturer's Ref:	Concord: Marlin Myriad 50, ref: 2029620, Shallow housing 10° reflector
Accessories:	Complete with flat etched glass ref. 2017375VAR & integral 240V/12V electronic dimmable transformer.
Luminaire Location:	Ceiling recessed in all suites & guest rooms over sinks.
Luminaire Description:	Fixed tungsten halogen downlight with 10 deg silver reflector.
IP44	
Dimensions:	Recess depth: 115mm, Cut-out diameter: 76mm.
Finish:	White bezel, RAL 9016
Fixing Method:	Recessed into ceiling, retained with springs.
Lamps:	OSRAM, Halostar Energy Saver, ref: 64429 ES 12V/25W, Tungsten halogen capsule, GY6.35 axial filament Colour temperature: 3000K (warm white), average rated life: 4,000 hours.

Luminaire Illustration:



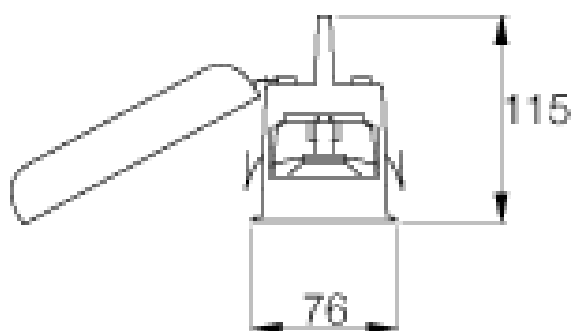
Luminaire Reference:	RD5	
Manufacturer's Ref:	Illuma lighting	Proseal, D181X-RAL PROSEAL frosted glass miniature downlight
Accessories:	Complete with electronic transformer & frosted glass diffuser.	
Luminaire Location:	Ceiling recessed in suite & guestroom showers.	
Luminaire Description:	1x35W fixed tungsten halogen miniature, die cast aluminium downlight with frosted glass diffuser and remote 12V electronic transformer.	
	IP65	
Dimensions:	Recess depth: 105mm Cut-out diameter: 72mm	
Finish:	RAL 9016	
Fixing Method:	Recessed into ceiling, retained with springs.	
Lamps:	35W Tungsten halogen dichroic reflector IRC 1 x OSRAM DECOSTAR 51 Energy Saver, ref.: 48865 ES WFL 35W/12V, Beam angle: 36°, Lamp Base: GU5.3, Colour Temperature: 3000K, Colour Rendering: CRI> 90, Average Rated Life: 5,000 hours	

Luminaire Illustration:



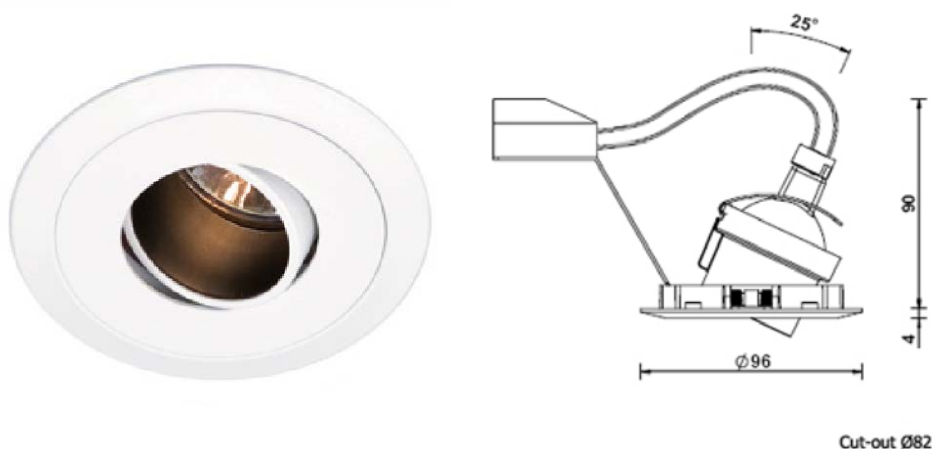
Luminaire Reference:	RD6
Manufacturer's Ref:	Concord: Marlin Myriad 50, ref: 2029620, shallow housing, 10° reflector
Accessories:	Complete with flat etched glass; ref. 2017375VAR & integral 240V/12V electronic dimmable transformer.
Luminaire Location:	Ceiling recessed in all suites and guest rooms over bath.
Luminaire Description:	1x20W fixed tungsten halogen downlight with 10 deg silver reflector.
	IP44
Dimensions:	Recess depth: 115mm, Cut-out diameter: 76mm.
Finish:	White bezel, RAL 9016
Fixing Method:	Recessed into ceiling, retained with springs.
Lamps:	OSRAM, Halostar Starlite, ref: 64427 S 12V/20W, Tungsten halogen capsule, GY6.35 Colour temperature: 3000K (warm white), average rated life: 4,000 hours.

Luminaire Illustration:



Luminaire Reference:	RD7
Manufacturer's Ref:	Cube lighting FLIP 3-50 adjustable DOWNLIGHT; ref: FLR 3/50/RAL9016
Accessories:	Complete with 60VA 12V remote electronic transformer.
Luminaire Location:	Ceiling recessed
Luminaire Description:	MR16 Tungsten halogen, deep recessed, directional downlight with magnetic inner bezel.
	IP20
	Remote dimmable transformer: 240V/12V universally dimmable electronic transformer. To have thermal overload and short-circuit protection. To be mounted in accessible and ventilated location. To be compatible with control system – supplier to check this before delivering to site.
Dimensions:	Recess Depth: 90mm, Cut-Out Diameter: 82mm, Bezel diameter: 96mm.
Finish:	White RAL 9016
Fixing Method:	Recessed into ceiling, retained with springs.
Lamps:	20W Tungsten halogen dichroic reflector IRC 1 x OSRAM, Energy Saver, ref.: 48860 ES SP 20W/12V, Beam angle: 10°, Lamp Base: GU5.3, Colour Temperature: 3000K, Colour Rendering: CRI 90, Average Rated Life: 5,000 hours

Luminaire Illustration:



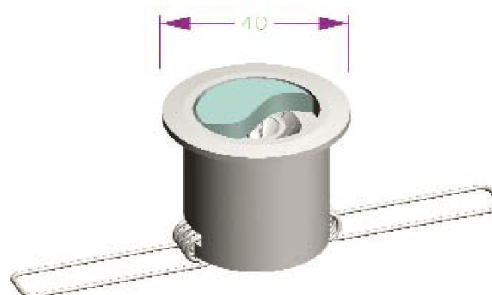
Luminaire Reference:	RD9
Manufacturer's Ref:	ACDC ATLAS 1034/WW/9K/DGF/ALP LED Spotlight
Accessories:	Complete with non-dimmable, electronic driver: ref. ACDC1909 DRIVER
Luminaire Location:	Downlighting onto desk within TV unit
Luminaire Description:	1 x 1.1W recessed, fixed, 9 deg collimator lensed, warm white, non-dimmable, LED down light. Frosted glass. Series wiring.
	IP44
Dimensions:	Cut out diameter: 35mm, Minimum depth (for spring installation): 65mm, Bezel diameter: 40mm.
Finish:	Polished silver aluminium
Fixing Method:	Recessed by attached mounting springs
Lamps:	1 x 1.1W 3000K warm white Luxeon LED, dual binned. Efficacy to be 42 lumens per watt with life approx 50,000 hrs to 70% lumen maintenance 9 deg collimator lens. (Integral to luminaire)

Luminaire Illustration:



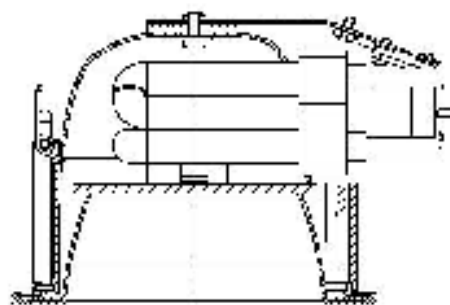
Technical Diagram

Cut out diameter: 35mm
 Minimum depth: 65mm
 Maximum surface thickness (if using springs) 25mm
 Installed depth: 35mm



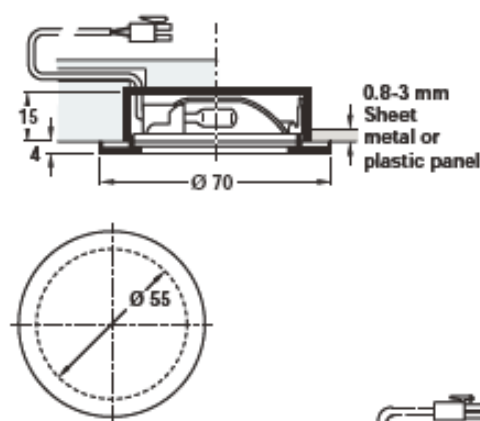
Luminaire Reference:	RD11	
Manufacturer's Ref:	WILA Lichttechnik GmbH	E Connect MS-3, ref: E2601GPA06 recessed ceiling luminaire (Special fitting; not in standard catalogue)
Accessories:	Complete with safety screen & integral electronic control gear. Etched glass cover(integral.)	
Luminaire Location:	Ceiling recessed in bathrooms	
Luminaire Description:	Ceiling recessed, fixed compact fluorescent downlight with integral electronic control gear. 60 deg reflector.	
	IP44	
Dimensions:	Recess Depth: 100mm, Cut-Out Diameter: 120mm	
Finish:	RAL 9016	
Fixing Method:		
Lamps:	OSRAM Dulux T/E 13W/ 830 PLUS for ECG, 1 x 13 W triphosphor compact fluorescent, GX24q-1 base, 3000K colour temp.	

Luminaire Illustration:



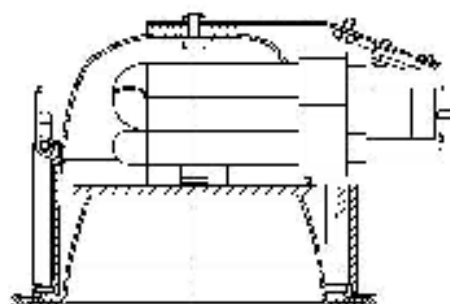
Luminaire Reference:	RD13
Manufacturer's Ref:	Häfele UK Ltd Low Voltage economy light, ref. 828.83.211
Accessories:	Complete with dimmable transformer and frosted glass diffusing lens (integral).
Luminaire Location:	Installed in joinery above Minibar tray.
Luminaire Description:	1 x 10W, 12V low voltage halogen, recessed under shelf light with aluminium reflector and frosted glass diffuser. Plastic housing.
<p>Remote dimmable transformer: 240V/12V universally dimmable transformer. Electronic transformer. To have thermal overload and short-circuit protection. To be mounted in accessible and ventilated location. To be compatible with control system – supplier to check this before delivering to site.</p>	
Dimensions:	recess depth: 15mm plus allow for cable exit, cut out: Ø 55 mm
Finish:	Polished chrome
Fixing Method:	Recessed in shelf
Lamps:	OSRAM, Halostar Starlite, ref: 64415S 10W / 12V, Tungsten halogen capsule, GY4 Colour temperature: 3000K (warm white), average rated life: 4,000 hours.

Luminaire Illustration:



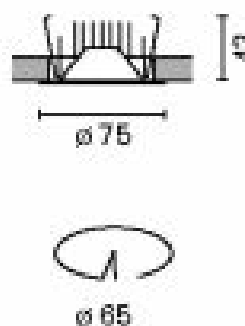
Luminaire Reference:	RD14	
Manufacturer's Ref:	WILA Lichttechnik GmbH	E Connect MS-3-D, ref: E2601GPA06-D, dimmable recessed ceiling luminaire (Special fitting; not in standard catalogue)
Accessories:	Complete with etched glass screen & integral 1-10V dimmable electronic control gear.	
Luminaire Location:	Ceiling recessed in bathrooms in SU06, SU08, SU09 & SU10	
Luminaire Description:	1 x 13W ceiling recessed, fixed compact fluorescent downlight with 1-10V dimmable integral Electronic control gear.60 deg reflector.	
	N.B. Contractor to specify dimmable version at time of ordering.	
	IP44	
Dimensions:	Recess Depth: 100mm, Cut-Out Diameter: 120mm	
Finish:	RAL 9016	
Fixing Method:		
Lamps:	OSRAM Dulux T/E 13W/ 830 PLUS for ECG, ref : 4050300 446981 1 x 13 W triphosphor , compact fluorescent, GX24q-1 base, 3000k colour temp.	

Luminaire Illustration:



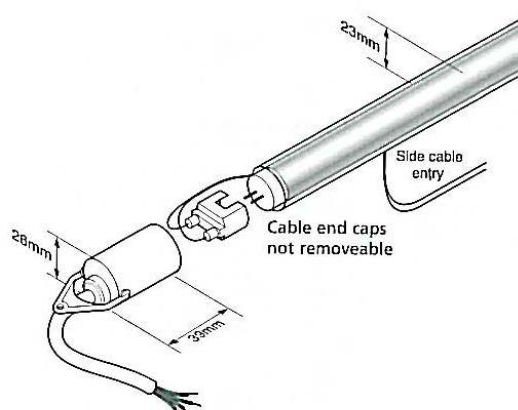
Luminaire Reference:	RD15
Manufacturer's Ref:	iGuzzini Laser, 20W QT, fixed Downlight, ref: 8038
Accessories:	Complete with 220/12V OSRAM Halotronic remote electronic transformer (to fit through cut-out) ref.: HTM/70/230-240
Luminaire Location:	Recessed in storage cupboard ceiling above Minibar.
Luminaire Description:	1 x 20W / 12V low voltage tungsten halogen, fixed, recessed downlight.
IP23	
Dimensions:	Recess depth: 42mm (plus allow ventilation) , diameter: 75mm
Finish:	Black, to be confirmed by interior designer
Fixing Method:	Recessed with steel springs
Lamps:	OSRAM, Halostar Starlite, ref: 64425 S 20W / 12V, Tungsten halogen capsule, GY4 Colour temperature: 3000K (warm white), average rated life: 4,000 hours.

Luminaire Illustration:



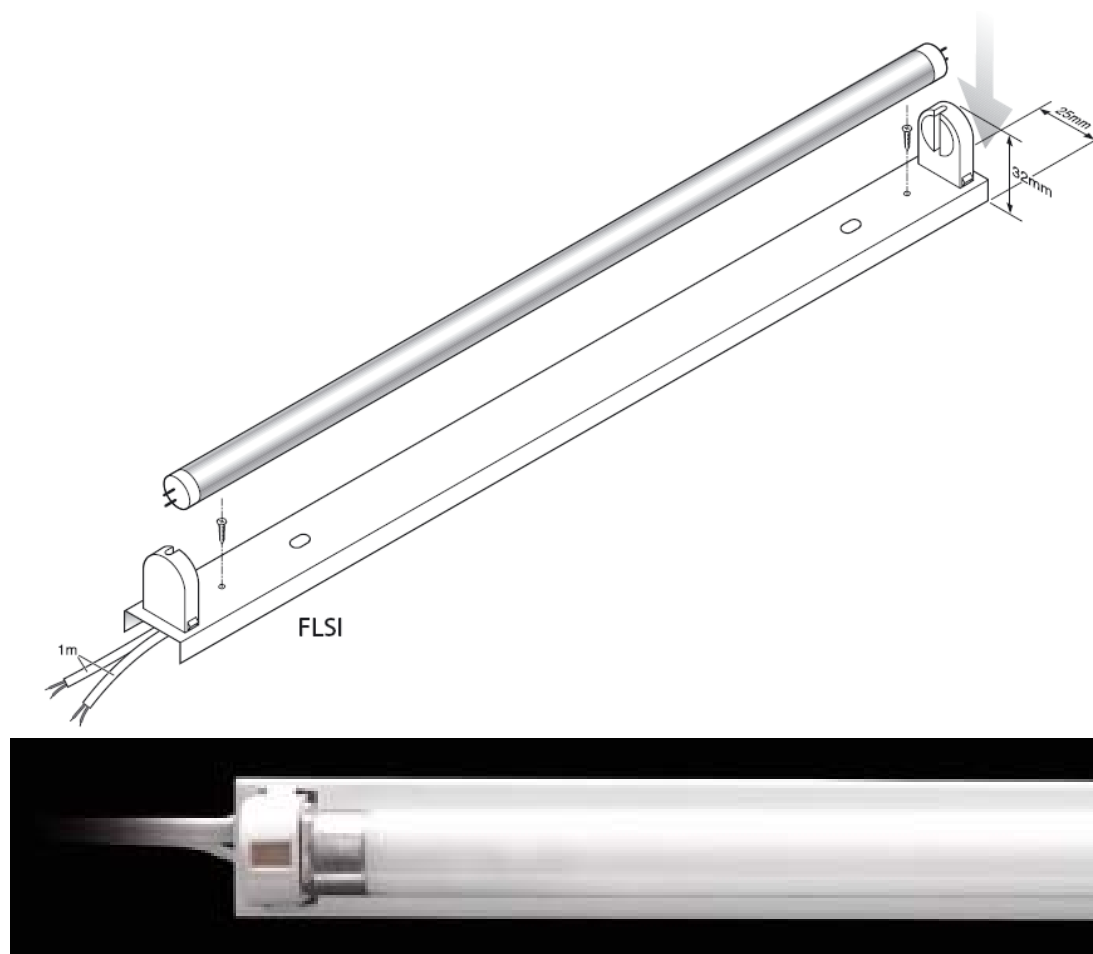
Luminaire Reference:		RL1 a, RL1 b, RL1 c, RL1 d, RL1 f
Manufacturer's Ref:		Encapsulite T5 Stick-Lite
Accessories:		Complete with remote non-dimmable high frequency ballast, Ref: HD/S/Wattage; White end caps, and mounting clips (included)
Luminaire Location:		Various
Luminaire Description:		1x 35W / 28W / 21W / 14W / 8W T5 fluorescent batten with remote control gear.
Dimensions:		Length: RL1 a: 1503mm; RL1 b: 1203mm; RL1 c: 893mm; RL1 d: 603mm; RL1 f: 340mm; Diameter: 23mm, 26mm (end cap)
Finish:		White end caps and cable, standard transparent cover
Fixing Method:		By mounting clips
Lamps:	RL1 a	OSRAM Lumilux T5High Efficiency, FH 35W/830 HE, 35 W High efficiency, triphosphor, linear fluorescent tube, G5 Base, CCT: 3000K
	RL1 b	OSRAM Lumilux T5High Efficiency, FH 28W/830 HE, 28 W High efficiency, triphosphor, linear fluorescent tube, G5 Base, CCT: 3000K
	RL1 c	OSRAM Lumilux T5High Efficiency, FH 21W/830 HE, 21 W High efficiency, triphosphor, linear fluorescent tube, G5 Base, CCT: 3000K
	RL1 d	OSRAM Lumilux T5High Efficiency, FH 14W/830 HE, 14 W High efficiency, triphosphor, linear fluorescent tube, G5 Base, CCT: 3000K
	RL1 f	OSRAM Lumilux De Luxe T5 short, L 8W/930, 8 W triphosphor, linear fluorescent tube, G5 Base, CCT: 3000K

Luminaire Illustration:



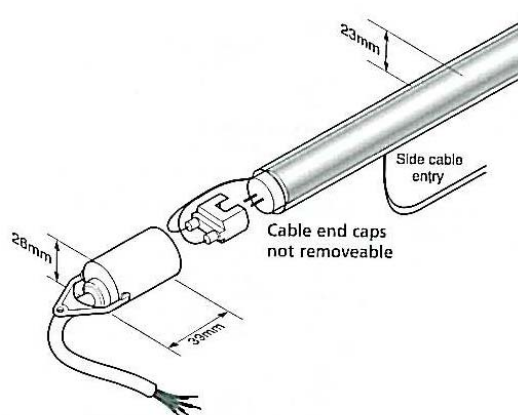
Luminaire Reference:		RL2 a
Manufacturer's Ref:	Encapsulite	T5 Lamp tray with fly leads, ref. FL35W-SI
Accessories:	Complete with remote 1-10V dimmable high frequency control gear, ref: HW/S/D/35W	
Luminaire Location:	Various in Suites SU06, SU08, SU09 & SU10	
Luminaire Description:	T5 Fluorescent Lamp on white coated steel tray with lamp holders and fly leads fitted.	
Dimensions:	Length: 1477mm, height:: 32mm, width: 25mm	
Finish:	White	
Fixing Method:	Two screws through rear of steel tray	
Lamps:	OSRAM Lumilux T5High Efficiency, FH 35W/830 HE, 35 W High efficiency, triphosphor, linear fluorescent tube, G5 Base, CCT: 3000K	

Luminaire Illustration:



Luminaire Reference:		RL2 b, RL2 c, RL2 d, RL2 f
Manufacturer's Ref:	Encapsulite	T5 Stick-Lite & dimmable high frequency ballast
Accessories:	Complete with remote 1-10V dimmable high frequency ballast, Ref: HW/S/D/Wattage White end caps, and mounting clips (included)	
Luminaire Location:	Various in Suites SU06, SU08, SU09 & SU10	
Luminaire Description:	1x 28W / 21W / 14W / 8W T5 fluorescent batten with remote dimmable control gear.	
Dimensions:	Length: RL2 a: 1503mm; RL2 b: 1203mm; RL2 c: 893mm; RL2 d: 603mm; RL2RL2 f: 340mm; Diameter: 23mm, 26mm(end cap)	
Finish:	White end caps and cable, standard transparent cover	
Fixing Method:	By mounting clips	
Lamps:	RL2 b	OSRAM Lumilux T5High Efficiency , FH 28W/830 HE, 28 W High efficiency, triphosphor, linear fluorescent tube, G5 Base, CCT: 3000K
	RL2 c	OSRAM Lumilux T5High Efficiency , FH 21W/830 HE, 21 W High efficiency, triphosphor, linear fluorescent tube, G5 Base, CCT: 3000K
	RL2 d	OSRAM Lumilux T5High Efficiency , FH 14W/830 HE, 14 W High efficiency, triphosphor, linear fluorescent tube, G5 Base, CCT: 3000K
	RL2 f	OSRAM Lumilux De Luxe T5 short, L 8W/930, 8 W triphosphor, linear fluorescent tube, G5 Base, CCT: 3000K

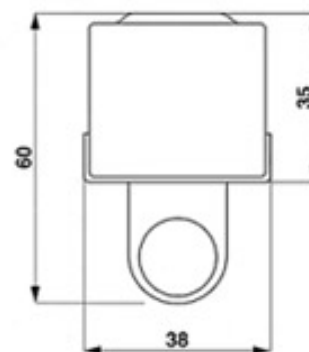
Luminaire Illustration:



Luminaire Reference:	RL4
Manufacturer's Ref:	PJR Engineering 8W T5 SLIM BATTEN, Ref: PJR108 PBW/B
Accessories:	None
Luminaire Location:	Nightlight underneath sink or in bathroom cove detail
Luminaire Description:	1 x 8W Linear T5 fluorescent Luminaire with integral high frequency electronic control gear.
Dimensions:	Length: 315 mm; Height: 63 mm; Width: 37mm
Finish:	White
Fixing Method:	Surface mounted, placed in detail
Lamps:	OSRAM Lumilux De luxe T5 short, L 8W/930 8 W triphosphor, linear fluorescent tube, G5 Base, CCT: 3000K

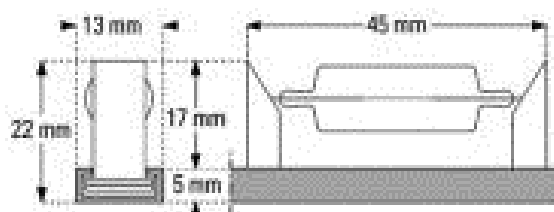
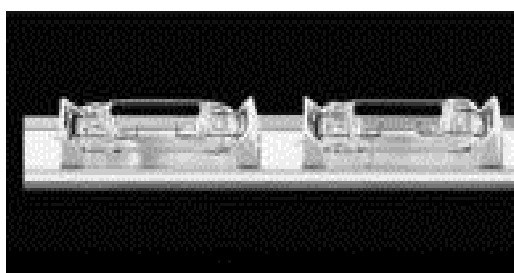
Luminaire Illustration:

(Longer version shown in picture)



Luminaire Reference:	RL21
Manufacturer's Ref:	Agabekov AGA CLIP xenon linear flex, LFX AC-2000.
Accessories:	24V Compact electronic dimmable transformer TET215-24V/Q14644 Cos-1-100 power feed. BFA Aluminium Mounting Clips.
Luminaire Location:	Integrated in circular cove in SU10 Entrance.
Luminaire Description:	Linear xenon luminaire. Including dimmable transformers, lamps, mounting clips crimped terminals and all necessary equipment.
	IP20
Dimensions:	Length: 6000 mm (in max. 2 metre pieces for circular arrangement), depth: 22mm, height: 13mm; Transformer: 190x54x41mm located within 1m of track
Finish:	White
Fixing Method:	Screw fixed via clips.
Lamps:	5W 24V Xenon frosted rigid loop long life lamps, ref. : JF24005101

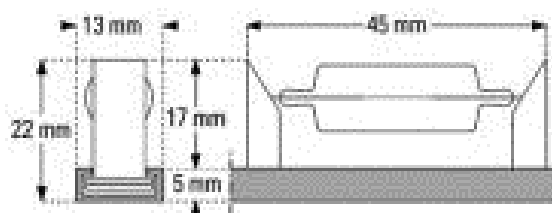
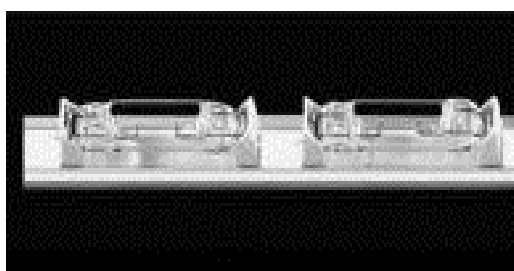
Luminaire Illustration:



Luminaire Reference:	RL22	
Manufacturer's Ref:	Agabekov	AGA CLIP xenon linear flex, LFX AC-2000. BFA Aluminium Mounting Clips.
Accessories:	24V Compact electronic dimmable transformer TET215-24V/Q14644 Cos-1-100 power feed.	
Luminaire Location:	Integrated in straight cove in SU10 , 2 nd key and in cove in SU09.	
Luminaire Description:	Linear xenon Luminaire. Including dimmable transformers, lamps, mounting clips Crimped terminals 1/2 and all necessary equipment.	
	IP20	
Dimensions:	Length: as drawn (in max. 2 metre pieces), depth: 22mm, height: 13mm Transformer: 190x54x41mm located within 1m of track	
Finish:	White	
Fixing Method:	Screw fixed via clips.	
Lamps:	5W 24V Xenon frosted rigid loop long life lamps, ref.: JF24005101	

Luminaire Illustration:

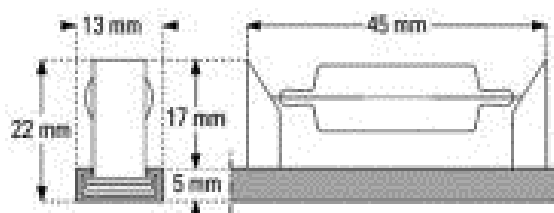
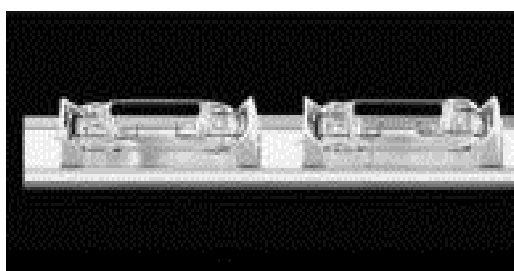
Change as RL21



Luminaire Reference:	RL23
Manufacturer's Ref:	Agabekov AGA CLIP xenon linear flex, LFX AC-2000. BFA Aluminium Mounting Clips.
Accessories:	24V Compact electronic dimmable transformer TET215-24V/Q14644 Cos-1-100 power feed.
Luminaire Location:	Integrated in 2No. of straight coves in SU10, bedroom.
Luminaire Description:	Linear xenon luminaire. Including dimmable transformers, lamps, mounting clips Crimped terminals 1/2 and all necessary equipment.
	IP20
Dimensions:	Length: 2 x 3250 mm (in max. 2 metre pieces), depth: 22mm, height: 13mm Transformer: 190x54x41mm located within 1m of track
Finish:	White
Fixing Method:	Screw fixed via clips
Lamps:	5W 24V Xenon frosted rigid loop long life lamps, ref.: JF24005101

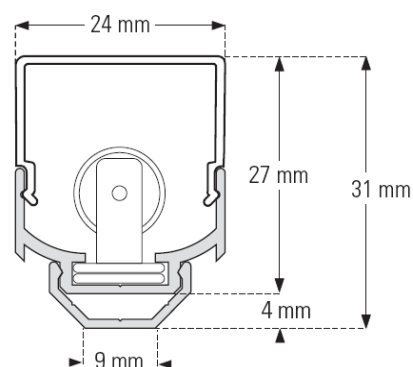
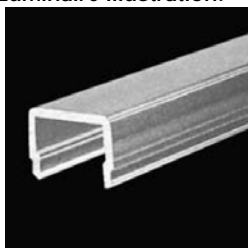
Luminaire Illustration:

Change as RC21



Luminaire Reference:	RL24
Manufacturer's Ref:	Agabekov Xenon Universal 4 Luminaire, LU4X AC-1000
Accessories:	24V Compact electronic dimmable transformer TET215-24V/Q14644 Cos-1-100 power feed. Clips ref. Fca Square clear Lexan cover VSC-VSM.
Luminaire Location:	Integrated in underside of shelf, wardrobe SU02.
Luminaire Description:	Linear xenon luminaire. Including dimmable transformers, lamps, fixation clips crimped terminals and all necessary equipment.
	IP20
Dimensions:	Length: 800 mm (comes as 1 metre piece), depth: 24mm, height: 31mm Transformer: 190x54x41mm within 1m of track
Finish:	White
Fixing Method:	Screw fixed via clips
Lamps:	3W 24V Xenon frosted rigid loop long life lamps, ref.: JF24003101

Luminaire Illustration:



Luminaire reference	Location	Description	Lamping
RID1	SUITES AND GUESTROOMS	BED SIDE TABLE LAMPS, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TRIPHOSPHOR COMPACT FLUORESCENT 2X20W
RID2	SUITES AND GUESTROOMS	BATH ROOM MIRROR LAMPS, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TRIPHOSPHOR COMPACT FLUORESCENT 2X15W
RID3	SUITES AND GUESTROOMS	FLOOR STANDING READING LAMP, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TRIPHOSPHOR COMPACT FLUORESCENT 1X15W
RID4	SUITES AND GUESTROOMS	DESK LAMP, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGENES INCANDESCENT 33W
RID6	SUITES AND GUESTROOMS	WALL MOUNTED BEDSIDE LAMP, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TRIPHOSPHOR COMPACT FLUORESCENT 2X20W
RID101	SUITES AND GUESTROOMS	TABLE LAMPS, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TRIPHOSPHOR COMPACT FLUORESCENT 2X23W
RID102	SUITES AND GUESTROOMS	FLOOR STANDING LAMP, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TRIPHOSPHOR COMPACT FLUORESCENT 2X20W
RID10	GR03	CHANDELIER, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 210W
RID11	SU03	CHANDELIER, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 300W
RID12	SU04	CHANDELIER, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 300W
RID13	SU05	PENDANT IN DINING ROOM, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 300W
RID14	SU05	PENDANT IN LIVING ROOM, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 300W
RID15	SUITES AND GUESTROOMS	INTEGRAL MIRROR LIGHT TO VANITY MIRROR, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 100W

RID16	SU06	CHANDELIER, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 300W
RID17	SU07	CHANDELIER, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 300W
RID18	SU08	CHANDELIER, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 300W
RID19	SU09	CHANDELIER, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 300W
RID21	SU01	CHANDELIER, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 300W
RID22	SU02	CHANDELIER, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 300W
RID23	SU02	CHANDELIER, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 300W
RID24	SUITES AND GUESTROOMS	SHAVING MIRROR, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TRIPHOSPHOR COMPACT FLUORESCENT 18W
RID27	SU05	CHANDELIER, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 300W
RID28	SU05	CHANDELIER, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 300W
RID29	SU10	CHANDELIER, SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TUNGSTEN HALOGEN 300W
RID30		SPECIFIED BY INTERIOR DESIGNER	ALLOWANCE FOR TRIPHOSPHOR COMPACT FLUORESCENT 15W

LIGHTING MANUFACTURERS / SUPPLIER CONTACT SCHEDULE

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Cube Lighting	Contact: Trevor Morgan Tel: 01442 876 676 Mob: Fax: 044 1442 876 756 Email: sales@cubelighting.com
Concord lighting	Contact: Mr. Vic Cieslewicz Tel: 0870 606 2030 Mob: 07831 534 023 Fax: 01273611014 Email: vic.cieslewicz@concordmarlin.com
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REVISIONS

Rev	Description	By	Date
04	For Construction	SW	04/09/09