



Lighting Control Circuits (Ground Floor & Exterior)

Circuit	Feeding	Dimming	Notes	Load
CG1	Low Level Lights (Hall)	Mains	Wired in series in groups to remote drivers.	42W
CG2	Downlights 1 (Hall)	Mains	Drivers in ceiling void	82W
CG3	Downlights 2 (Hall)	Mains	Drivers in ceiling void	82W
CG4	Wall Lights + 5A socket (Hall)	Mains	Retrofit LED lamps	56W**
CG5	Downlights (Formal Lounge)	Mains	Drivers in ceiling void	82W
CG6	Pendant (Formal Lounge)	Mains	Retrofit LED lamps	50W*
CG7	Wall Lights + 5A socket (FL)	Mains	Retrofit LED lamps	60W**
CG8.1	Linear LEDs Joinery (FL)	Mains	Drivers remote	200W**
CG8.2	Linear LEDs Coffin (FL)	Mains	Drivers remote	200W**
CG9	Pendant(s) (Playroom)	Mains	Retrofit LED lamps	50W
CG10	Downlights (Playroom)	Mains	Drivers in ceiling void	93W
CG11	Supply TV/Shelves (Playroom)	Mains	Drivers remote	200W**
CG12	Wall Lights + 5A sockets (Playr.)	Mains	Retrofit LED lamps	24W**
CG13	Pendants Island (Kitchen)	Mains	Provide control cable for possible 1-10V optional luminaire	24W**
CG14	Downlights island (Kitchen)	Mains	Drivers in ceiling void	47W
CG15	Downlights cabinets (Kitchen)	Mains	Drivers in ceiling void	70W
CG16	Linear LEDs cabinets (Kitchen)	Mains	Drivers remote	200W**
CG17	Pendant table (Dining)	Mains	Provide control cable for possible 1-10V optional luminaire	20W**
CG18	Downlights (Kitchen/Dining)	Mains	Drivers in ceiling void	24W**
CG19	Downlights Sofa (Lounge)	Mains	Drivers in ceiling void	70W
CG20	Downlights & Spots (Lounge)	Mains	Drivers remote for downlights Drivers remote for spotlights	70W
CG21	Linear LEDs (Lounge)	Mains	Drivers remote	125W**
CG22	5A sockets (Lounge)	Mains	Retrofit LED lamps	32W**
CG23	Supply for TV lighting (Lounge)	Mains	Drivers remote	50W**
CG24	Linear LEDs cabinet (Pantry)	Mains	Driver in / above cabinet	300W**
CG25	Wall/Ceiling Lights (Pantry)	Mains	Retrofit LED lamps	24W**
CG26	Downlights (Gym)	Mains	Drivers in ceiling void	100W
CG27	Downlights (Gym Shower)	Mains	Drivers remote	24W
CG28	Ceiling lights (Spice Kitchen)	Mains	Retrofit LED lamps	32W**
CG29	Linear LEDs (Spice Kitchen)	Mains	Drivers remote	42W**
CG30	Downlights (Utility)	Mains	Drivers in ceiling void	70W
CG31	Linear LEDs (Utility)	Mains	Drivers remote	52W**
CG32	Linear LED + D/L Cloakroom	Mains	Controlled via Lutron PIR.	35W**
CG33	Mirror Lights (WC)	Mains	Separate remote drivers for linear LED and mini LEDs. Retrofit LED lamps	16W**
CG34	Linear + Mini LEDs (WC)	Mains	Separate remote drivers for linear LED and mini LEDs. Retrofit LED lamps	85W**
CG35	Ceiling + Wall Lights (Garage)	Mains	Controlled via Lutron PIR.	48W**
CX1	Uplights Front Façade	Mains	Wired in series to remote drivers	32W
CX2	Wall Lights Front Entrances	Mains	Retrofit LED lamps	34W**
CX3	Front Driveway	Non Dim	Design TBC. Provide exterior junction boxes in suitable locations	100W*
CX4	Front Landscape	Non Dim	Design TBC. Provide exterior junction boxes in suitable locations	100W*
CX5	Wall Lights Rear Doors	Mains	Retrofit LED lamps	24W**
CX6	Wall Spots Rear Doors	Mains	Retrofit LED lamps	10W*
CX7	Path lights Rear Garden	Mains	Design TBC. Provide exterior junction boxes in suitable locations	50W**
CX8	Landscape Rear Garden	Mains	Design TBC. Provide exterior junction boxes in suitable locations	120W**
CX9	Landscape Rear Garden	Mains	Design TBC. Provide exterior junction boxes in suitable locations	120W**
L/S1	Ceiling Light (Boiler/Plant)	Non Dim	Retrofit LED lamps	16W**
L/S2	Ceiling Light (Storage)	Non Dim	Retrofit LED lamps	16W**

Ref	Sym	Description
CLX	⊗	Fixed surface mounted or recessed Ceiling Light, diffused
D1	⬆	Adj. recessed trimless Downlight, medium beam
D2	⬆	Adj. recessed trimless Downlight, wide beam
D3	⬆	Adj. recessed trimless Downlight, wall washer
D4	⬆	Fixed recessed Downlight, diffused
D5	⬆	Miniature recessed Downlight, medium beam, IP65
D6	⬆	Adj. recessed Downlight, medium beam
D7	⬆	Adj. recessed Downlight, wide beam
L1	—	Linear LED in alum. profile, high power, in shadow gap
L2	—	Linear LED in alum. profile, medium power, to light up
L4	—	Linear LED in trimless profile, low power, diffused (skylight)
L5	—	Linear LED in alum. profile, low power, diffused (shelf/joinery)
L6	—	Linear LED, IP rated, low power, diffused (bathroom niches)
MLX	⊗	Decorative Mirror Light (various types)
Px	⊗	Decorative Pendant Light (various types)
ADJ	⊗	Adjustable ceiling mounted Spot Light, medium beam
STL1	⬆	Miniature recessed Step Light
TL/FL	⊗	Decorative Table / Floor Lamp (plugged to 5A sockets)
WLX	⊗	Decorative Wall Light (various types)
XSP1	⊗	Fixed wall mounted Spot Light, IP rated, medium beam
XSP2	⊗	Adjustable wall mounted Spot Light, IP rated, medium beam
XUL2	⊗	Floor recessed Uplight, IP rated, medium beam
XWLX	⊗	Fixed Decorative Wall Lantern, IP rated
	⊗	Lighting supply allowance (future use or fitting TBC)
	⊗	Movement sensor (KNX type, by A/V specialist)
	⊗	5A lighting wall socket
	⊗	5A lighting floor socket
	⊗	Suggested location of remote Drivers for linear and mini LEDs
	⊗	Touch Screen Control Panel (by A/V Specialist)
KNP	⊗	KNX keypad (by A/V Specialist)
D/S	⊗	Denotes Door Switch
PIR	⊗	Denotes circuit controlled via local movement sensor
L/S	⊗	Denotes locally switched circuit
TBC	⊗	Denotes "To Be Confirmed"
⊗	⊗	Centre Line (centred on object)
⊗	⊗	Measurement / Distance in mm
⊗	⊗	Equally Spaced
⊗	⊗	Twice the Spacing (relative to "A")

IMPORTANT NOTES - PLEASE READ PRIOR TO COSTING / INSTALLING:

- Typical luminaire notation:
⊗ — Luminaire code / reference
⊗ — Lighting circuit reference
- This plan must be read in conjunction with the related luminaire schedule and lighting details, where provided.
- All installation works to be carried out by qualified electricians and in accordance with the latest relevant regulations, such as the latest edition of the Wiring Regulations (BS7671), the relevant Building Regulations and any other local applicable standard.
- All LEDs with exception of replacement lamps require a remote driver, to be concealed in a discreet and accessible location, with good air circulation. Refer to manufacturer's instructions sheets, design details and luminaire schedule for guidance on correct wiring method.
- The electrical contractor has to carry out voltage drop calculations for remote transformers and drivers. The maximum distance between a luminaire and the remote transformer/driver will depend on the cable size, the distance and the total load. The recommended maximum cable length from a driver to the last LED of the connected series is normally 10m. Please call Match to discuss any cases outside this limit.
- Placement of fittings must be accurate according to the measurements given on the plans. All directional recessed downlights must be able to tilt fully in the direction of the arrow.
- The suggested height and position for all decorative fittings will be determined by the Architect or Interior Designer, once the fitting selection has been finalised.
- It is recommended to leave a 0.5m long cable tail for decorative wall lights at first fix to allow for adjustments.
- Lighting Control by Audio Visual specialist. For final locations and types of keypads please refer to A/V specialist drawings and specification.
- Electrical Contractor to ensure that the ceiling is suitably braced to support the Client's choice of decorative pendants.
- Client must be aware that in some situations fire boxing may be required. An additional cost for installation may be incurred. Electrical Contractor to discuss requirements with Client prior to works to commence.
- Light fittings may become hot to touch in operation and should not come into contact with fabrics or soft furnishings. All fittings must be carefully situated allowing for proper ventilation.
- Electrical Contractor to allow for sufficient time for luminaires and fittings to be delivered in time for installation (assume 4-6 weeks lead time average). Please note that back boxes, first fix mounting sleeves, casters and plaster-in frames for downlights are required at first fix and may need to be ordered in advance.

- ### Lighting Control Notes:
- Circuits denoted as L/S, D/S, PIR, etc. are generally to be locally controlled via switches, dimmers, door switches, PIRs, etc. They are not intended to be wired back to the lighting control system. Please also refer to the individual control notes on the lighting plans.
 - Selected circuits on the Ground Floor that are controlled by the Lighting Control System via smart movement sensors have been identified with a numbered circuit reference. These sensors will allow for automatic triggering of lighting scenes, switching off after a pre-set time and gradual ramping up/down of the light intensity during switch on and switch off.
 - While some LED drivers and lamps can handle both leading and trailing edge dimming, trailing edge dimmers are generally recommended.
 - Remote drivers locations to be planned so as to be easily accessible for installation and maintenance. Locations can include on top of cupboards, within wardrobes, in dedicated risers and plantrooms, etc.
 - Load estimate per controlled circuit is based on the following assumptions:
* Indicative load of decorative luminaires, assuming 8W per retrofit LED lamp;
** Indicative load of linear LED based on assumptions of lengths and arrangements;
*** Indicative load allowance for circuit provisions for future lighting.

Rev	No	Description	Date	By	Check
N		Revised as clouded, further to site visit on 29/02/24	29/02/2024	VQ	RS
M		Revised as clouded, further to site visits on 08 & 16/02/24	16/02/2024	VQ	RS
L		KNX PIRs added to all bathrooms	30/10/2023	VQ	RS
K		Speakers and IT + Lighting racks added	24/10/2023	VQ	RS
J		Revised sockets, 2nd Floor lighting, Bed 3 layout	05/10/2023	VQ	RS
I		For Coordination and Costing. Agreed Keypads Locations.	26/07/2023	VQ	RS
H		For Coordination and Costing. Revised bathroom layouts.	21/07/2023	VQ	RS
G		For Coordination and Costing. Latest bathroom layouts.	26/05/2023	VQ	RS
F		For Coordination and Costing. Revised room layouts	04/05/2023	VQ	RS
E		For Coordination and Costing. WC plan amended	23/11/2022	VQ	RS
D		For Coordination and Costing. Client's comments	08/11/2022	VQ	RS
C		For Coordination and Costing. revised layouts and controls	04/11/2022	VQ	RS
B		For Coordination and Costing.	18/02/2022	VQ	RS
A		For Coordination and Costing	22/12/2021	VQ	RS

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GROUND FLOOR LIGHTING PLAN

Project No	Drawing No	Rev.
MLS166-01	LP-00	N
Status	Date	Scale
CONSTRUCTION	12/11/21	1:50 @ A1