



Ground Floor



First Floor

| #  | Name                          | Parameter                 | Min     | Average | Min/average |
|----|-------------------------------|---------------------------|---------|---------|-------------|
| GF | Bottom Tread                  | Perpendicular illuminance | 160 lx  | 183 lx  | 0.87        |
| GF | Working plane (Kitchen)       | Perpendicular illuminance | 278 lx  | 388 lx  | 0.72        |
| GF | Working plane (Lounge)        | Perpendicular illuminance | 121 lx  | 152 lx  | 0.80        |
| GF | Working plane (Family/Dining) | Perpendicular illuminance | 165 lx  | 202 lx  | 0.82        |
| GF | Working plane (Landing)       | Perpendicular illuminance | 164 lx  | 221 lx  | 0.74        |
| GF | Working plane (Porch)         | Perpendicular illuminance | 141 lx  | 266 lx  | 0.53        |
| GF | Working plane (Study)         | Perpendicular illuminance | 234 lx  | 260 lx  | 0.90        |
| GF | Working plane (Utility/Boot)  | Perpendicular illuminance | 89.8 lx | 116 lx  | 0.77        |
| GF | Working plane (WC)            | Perpendicular illuminance | 71.8 lx | 116 lx  | 0.62        |
| GF | Working plane (Garage)        | Perpendicular illuminance | 189 lx  | 314 lx  | 0.60        |

| #  | Name                          | Parameter                 | Min    | Average | Min/average |
|----|-------------------------------|---------------------------|--------|---------|-------------|
| FF | Working plane (Bedroom 1)     | Perpendicular illuminance | 245 lx | 340 lx  | 0.72        |
| FF | Working plane (Bedroom 2)     | Perpendicular illuminance | 164 lx | 239 lx  | 0.69        |
| FF | Working plane (Dressing)      | Perpendicular illuminance | 314 lx | 372 lx  | 0.84        |
| FF | Working plane (Bedroom 3)     | Perpendicular illuminance | 104 lx | 197 lx  | 0.53        |
| FF | Working plane (En Suite)      | Perpendicular illuminance | 128 lx | 280 lx  | 0.46        |
| FF | Working plane (Upper Landing) | Perpendicular illuminance | 164 lx | 324 lx  | 0.51        |
| FF | Working plane (Bathroom)      | Perpendicular illuminance | 172 lx | 264 lx  | 0.65        |
| FF | Working plane (En Suite)      | Perpendicular illuminance | 141 lx | 318 lx  | 0.44        |
| FF | Working plane (Bedroom 4)     | Perpendicular illuminance | 118 lx | 216 lx  | 0.55        |
| FF | Working plane (Bedroom 5)     | Perpendicular illuminance | 153 lx | 240 lx  | 0.64        |
| FF | Working plane (En Suite)      | Perpendicular illuminance | 131 lx | 212 lx  | 0.62        |
| FF | Working plane (Upper Landing) | Perpendicular illuminance | 245 lx | 288 lx  | 0.85        |

- GENERAL NOTES**
- DRAWING SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL SERVICE DRAWINGS.
  - DRAWING SHALL NOT BE SCALED FROM.
- LIGHTING DESIGN PARAMETERS**
- ALL LIGHTING CALCULATIONS GENERATED USING A MAINTENANCE FACTOR OF 1.00.
  - LIGHTING CALCULATIONS REPRESENT 'DAY 1' ILLUMINATION VALUES.
  - GLAZING APERTURES SIMULATED WITH THE BELOW VALUES:  
Reflection Factor = 10%  
Transmission = 90%  
Refractive Index = 1.5

- MITIGATION FACTORS**
- INTERNAL LIGHTING**
- ALL INTERNAL LIGHTING IN SIGNIFICANT PROXIMITY TO GLAZED APERTURES (WINDOWS/DOORS) IS 3000K CCT OR LESS.
  - WHERE APPROPRIATE, INTERNAL LIGHTING IS DIMMABLE TO PROVIDE ADDITIONAL CONTROL OVER ILLUMINATION (NON-CIRCULATION AREAS).
- EXTERNAL LIGHTING**
- ALL EXTERNAL LIGHTS ARE OF 3000K CCT OR LOWER
  - ALL EXTERNAL LIGHTS GENERATE 0% UPWARD LIGHT WHEN MOUNTED WITH 0° UPWARD TILT.
  - ALL EXTERNAL LIGHTS SHOULD BE CONNECTED TO MOTION SENSORS AND/OR PHOTOCELLS TO REDUCE ILLUMINATION TIMES (THIS IS AT THE DISCRETION OF THE CLIENT AND THEIR PREFERRED ELECTRICAL CONTRACTOR TO DETERMINE SUITABLE PLACEMENT)

| LUMINAIRE SCHEDULE |   |   |                        |       |          |               |                |          |
|--------------------|---|---|------------------------|-------|----------|---------------|----------------|----------|
| Index              | Manufacturer                            | Article name  | Item number            | CCT   | Dimmable | Luminous flux | Connected load | Quantity |
| A                  | Kellwood Lighting                       | Noirn 2 Series - IP65 Industrial Linear - 63W - 5ft. - Frosted Diffuser - 5000K - 120° Beam Angle   | NAI2-PA63A(63W)-850-FR | 5000K | N/A      | 10009 lm      | 60 W           | 2        |
| B                  | Kellwood Lighting                       | Kellwood Lighting - Webster Series - 8W 3" Premium IP65 LED Downlight - CRI>80 3000K - 60A° Beam Angle  | WEB-8A-830-60          | 3000K | N/A      | 594 lm        | 8.3 W          | 12       |
| Bd                 | Kellwood Lighting                       | Kellwood Lighting - Webster Series - 8W 3" Premium IP65 LED Downlight - CRI>80 3000K - 60A° Beam Angle  | WEB-8A-830-60          | 3000K | TRIAC    | 594 lm        | 8.3 W          | 27       |
| C                  | Kellwood Lighting                       | Kellwood Lighting - Webster Series - 10W 3" Premium IP65 LED Downlight - CRI>80 3000K - 60A° Beam Angle   | WEB-10A-830-60         | 3000K | N/A      | 713 lm        | 10.3 W         | 2        |
| Cd                 | Kellwood Lighting                       | Kellwood Lighting - Webster Series - 10W 3" Premium IP65 LED Downlight - CRI>80 3000K - 60A° Beam Angle   | WEB-10A-830-60         | 3000K | TRIAC    | 713 lm        | 10.3 W         | 12       |
| D                  | Kellwood Lighting                       | Kellwood Lighting - Webster Series - 15W 4" Premium IP65 LED Downlight - CRI>80 3000K - 60A° Beam Angle   | WEB-15B-830-60         | 3000K | N/A      | 1167 lm       | 14.3 W         | 6        |
| Dd                 | Kellwood Lighting                       | Kellwood Lighting - Webster Series - 15W 4" Premium IP65 LED Downlight - CRI>80 3000K - 60A° Beam Angle   | WEB-15B-830-60         | 3000K | TRIAC    | 1167 lm       | 14.3 W         | 8        |
| E                  | Kellwood Lighting                       | Kellwood Lighting - Webster Series - 8W 3" Premium IP65 LED Downlight - CRI>80 3000K - 24A° Beam Angle  | WEB-8A-830-24          | 3000K | N/A      | 617 lm        | 8.2 W          | 1        |
| F                  | Kellwood Lighting                       | Kellwood Lighting - Whitelaw Series - 15W 6" Premium IP65 LED Downlight - CRI>80 3000K - 30° Beam Angle Opal Lens   | WHI-15A-830-90         | 3000K | N/A      | 1273 lm       | 14.4 W         | 2        |
| Gd                 | Ansell Lighting                         | Prism Pro CCT Fire Rated Gimbal   | APRIPG/1/WH            | 3000K | TRIAC    | 671 lm        | 6.9 W          | 12       |
| Hd                 | Ansell Lighting                         | Ruby LED  | ARULEDP/WW/B           | 3000K | TRIAC    | 1540 lm       | 15.4 W         | 4        |
| EX1                | Kellwood Lighting                       | Baker Series - LED Bulkhead - 10W - 230mm - CRI>80 2700K  | BAK-10-827             | 3000K | N/A      | 319 lm        | 9.4 W          | 5        |
| EX3                | Kellwood Lighting                       | McFarlane 5 Series: Premium LED Floodlight and Bay Light - 40W - Nichia 3535 LED Chip - CRI>70 3000K - IESNA Type III Optic with Medium Lateral Throw - Backspill Guard | MCF5A-40-730-3M        | 3000K | N/A      | 5787 lm       | 40.1 W         | 1        |
| MS/PC              | To Be Supplied By Electrical Contractor | Motion Sensor/Photocell (Either Combination Units or Dedicated Units for each function)   | N/A                    | N/A   | N/A      | N/A           | N/A            | 5        |

ALL EXTERIOR LIGHTS MOUNTED AT 2.2m

Drawn By: MTKB      Checked By: DCN

| REV | DESCRIPTION | CHK | DATE          |
|-----|-------------|-----|---------------|
| 000 | REASON      |     | INITIALS DATE |

Project:  
Design Space Architecture  
Leapings Lane  
Lighting

Services:  
LIGHTING LAYOUT  
PLOT 3

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Scale: DO NOT SCALE      Date: 21/02/25

Drawing No. PL0008688-DES105-005      Revision: 0