



- GENERAL NOTES**
 - The site engineer shall ensure that all drawings and associated documentation are fully coordinated and consistent prior to the commencement of any works.
 - All design documents shall be read in conjunction with one another.
 - Any discrepancies, ambiguities, or conflicts identified shall be reported immediately to SHD Lighting Consultancy Ltd and the overseeing organisation.
 - SHD Lighting Consultancy Ltd accepts no responsibility for construction errors or omissions resulting from unreported design issues once works have commenced.
 - No substitutions of luminaires, drivers, optics, or control equipment shall be made without approval from SHD Lighting Consultancy Ltd. Unapproved substitutions may invalidate compliance with lighting standards and design intent.
- NOTES**
 - The information on this drawing does not account for installation considerations, site conditions or provide any risk assessment.
 - This lighting design is based solely on information provided at the time of production.
 - Any changes to site layout, levels, landscaping, building positions or surface finishes may invalidate the results and shall require reassessment.
 - The calculation shown by this drawing assumes that the whole area being considered is in the same plane.
 - No account has been taken for the blocking effect caused by buildings, trees, or other obstructions.
 - All calculations are indicative and assume correct installation, aiming and commissioning of luminaires by a competent contractor.
 - No allowance has been made for future changes in land use, vegetation growth or additional structures that may alter light spill or obtrusive light performance.
 - All photometric data used is assumed accurate as supplied by the manufacturer. The designer accepts no liability for changes to product performance after the date of design.
 - All drawings and calculations are valid only for the revision shown. Any change of site plans or product data will require recalculation.
 - The site engineer shall ensure that all setting out information is mutually compatible with all drawings and documents provided by any other designer with any inaccuracies to be reported to the overseeing organisation immediately.
 - Final lighting unit positions must be agreed onsite with the overseeing organisation.
 - Lighting unit positions indicated upon this drawing may change without prior or additional notice due to local site or environmental constraints, subject to designer approval.
 - The planting of trees near to lighting units is to be avoided as future growth may inhibit lighting levels.
 - Where wildlife or ecology constraints exist (e.g., bats), the client must ensure that all mitigation measures recommended by ecologists are implemented and maintained.
 - Electrical installation work shall be carried out in accordance with the latest edition of the IET Wiring Regulations, BS 7671.
 - All luminaires shall be installed, aimed and commissioned strictly in accordance with manufacturer instructions. Incorrect tilt or rotation will invalidate the predicted lighting performance.
 - Any proposed column foundation designs, wind loading and ground conditions, is the responsibility of the structural engineer or contractor.
 - The client is responsible for ensuring safe access for maintenance, including periodic re-aiming and cleaning of luminaires.
 - Lighting performance will degrade over time due to LED lumen depreciation and dirt accumulation. The client must ensure appropriate maintenance intervals.
 - This design supports planning submissions but does not guarantee approval. Any planning driven changes may require redesign.
 - The client is responsible for ensuring that the installed lighting system remains compliant with all planning conditions throughout its operational life.
- SERVICE SAFETY & COORDINATION REQUIREMENTS**
 - The contractor shall obtain current statutory service record plans from all relevant undertakers before commencing any street lighting installation, alteration, or removal works.
 - The contractor shall assume not all existing services are shown on design drawings. Any uncharted or unidentified services discovered must be carefully located, protected, recorded, and reported to the overseeing organisation and statutory undertaker immediately.
 - Prior to starting work, the contractor shall identify all overhead electrical and communication apparatus within or adjacent to the works. Where present, the relevant undertaker shall be consulted, and written safety guidance obtained.
 - Works near overhead lines shall comply with HSE Guidance GS6 – “Avoidance of Danger from Overhead Power Lines”, including appropriate exclusion zones, barriers, and supervision.
 - All installation and removal works shall comply with: Electricity at Work Regulations 1989, Construction (Design and Management) Regulations 2015 (CDM 2015), ENA TS 43-8 (Underground Cable Laying), ENA ER G39/1 (Public Lighting Safety Code of Practice) and all applicable HSE and electrical safety regulations.
 - Works near underground mains or cables shall follow HSE Guidance HSG47 – “Avoiding Danger from Underground Services”, including verified service plans, CAT & Genny use, trial holes, and safe excavation methods.
 - The contractor shall liaise with all statutory undertakers to plan and programme any required protection, isolation, or diversion works, ensuring necessary permits and approvals are in place.
 - Any service connections shall be undertaken by, or under the supervision of, the relevant statutory undertaker in accordance with the New Roads and Street Works Act 1991 (NRSWA).
 - The contractor shall maintain accurate as-built records of all discovered or relocated services and issue updated information to the overseeing organisation at project completion.

All information and details shown on this drawing are issued strictly for review and comment by the relevant overseeing authorities. These drawings are not approved for construction, installation, procurement, tendering, or any related works. They must not be relied upon for any purpose other than technical review. Any party who undertakes tendering, procurement, installation, removal or construction works prior to the technical approval does so entirely at their own risk. SHD Lighting Consultancy Limited accepts no liability or responsibility for any loss, cost, delay, or consequence arising from actions taken on the basis of unapproved information.

Abacus 4m column (TB040)
Luminaire: Abacus S-LUM Gen 2 LED luminaire.
Mounting Type: Post top mounted at 0° tilt
Manufacturer Ref: AL61003 60 4K
Lumen Output: 7.54klm 60w
Colour Temperature: Neutral White (4000k)
Luminous Intensity: G4

UNIT IDENTIFICATION KEY:
Proposed lighting column identification number

ISOLUX CONTOUR KEY (AT GROUND LEVEL):
 1.00 Isolux contour line
 2.00 Isolux contour line

ISOLUX CONTOUR KEY (2M FROM GROUND LEVEL):
 1.00 Isolux contour line
 2.00 Isolux contour line

ISOLUX CONTOUR KEY (3M FROM GROUND LEVEL):
 1.00 Isolux contour line
 2.00 Isolux contour line

LIGHTING LEVELS
Minimum average illuminance (Eav): >50.00 lux
Lighting Uniformity (Emin/Eav): >0.40 (>40%)

R0	INITIAL DESIGN FOR REVIEW AND COMMENT		21/05/2026	SRH
REV	DESCRIPTION		DATE	BY
info@shdlighting.co.uk 07834 490 192 www.shdlighting.co.uk				
PROJECT:	WHARTONS GARAGE			
DRAWING:	EV BAY LIGHTING DESIGN			
CLIENT:	TSG SOLUTIONS			
DRAWING NUMBER:	SHD288-SHD-HLG-WHWR-DR-ED- Lighting Layout-RE	CHECKED:	SRH	
	SHEET 1 OF 1	APPROVED:		
CONTRACT NUMBER:	SHD2808	DATE:	21/05/2026	SCALE @ A1: 1:125
			REVISION:	R0
NOT TO BE USED FOR CONSTRUCTION				