

#### Lighting Class Selection Criteria

Table A.5 Lighting classes for subsidiary roads with a typical speed of main user  $v \le 30$  mph Traffic flow Lighting class

	Ambient luminance: very low (E1)	Ambient luminance: low (E2)	Ambient luminance: moderate (E3)	Ambient luminance: high (E4)
Busy <sup>A)</sup>	S3 or P3	S3 or P3	S2 or P2	S2 or P2
Normal <sup>B)</sup>	S4 or P4	S4 or P4	S3 or P3	S3 or P3
Quiet <sup>C)</sup>	S5 or P5	S5 or P5	S4 or P4	S4 or P4
NOTE 1 Table	e A.5 assumes no parked veh	nicles – see risk assessment	in <b>A.3.3.2</b> .	
NOTE 2 If fac an ESC lightin rendering cont replaced by S	ial recognition is important the g class from CIE 115:2010 [N ributes to better facial recogn C upon publication of the revis	en an ES lighting class from ( 11], Table 7, can be selected ition. (The ES lighting class i sed edition.)	BS EN 13201-2:2003, Table as an additional criterion. Go n BS EN 13201-2:2003 is ex <sub>l</sub>	5, or od colour pected to be
NOTE 3 To en exceed 1.5 tim	sure adequate uniformity, the les the value indicated for the	e actual value of the maintain class.	ed average illuminance is no	t to
NOTE 4 It is re practicable.	ecommended that the actual c	overall uniformity of illuminan	ce Uo be as high as reasona	bly
NOTE 5 Grey	highlighting indicates situation	ns that would not usually occ	ur in the UK.	
NOTE 6 The a	mbient luminance description	is E1 to E4 refer to the enviro	onmental zone as defined in l	LP GN01 [N5].
<ul> <li><sup>A)</sup> Busy traffic f as clubs, shop</li> <li><sup>B)</sup> Normal traffic access road</li> </ul>	low refers to areas where the ping facilities, public houses, c flow refers to areas where th	traffic usage is high and can etc. ne traffic usage is of a level e	be associated with local among a state quivalent to a housing estate	enities such
<sup>o</sup> Quiet traffic I	flow refers to areas where the	traffic usage is of a level equ	uivalent to a residential road	and mainly

## Maintenance Factor

LMF = 0.92 provided by Staffordshire County Council LLMF = 0.95 provided by Staffordshire County Council The overall MF is determined to be: 0.92 x 0.95 = 0.87

#### **Drawing Notes**

- 1. The installation contractor must be aware of any overhead obstructions. Advice should be sought from the developers engineering representative and the Distribution Network Operator.
- 2. Before commencement of any excavation works the installation contractor must be aware of any underground services or any other hazards which may be encountered in the installation of the lighting system. Advice should be sought from the developer's engineering representative and the Distribution Network Operator.
- 3. The contractor to consult with the Distribution Network Operator with regard to electrical connections and disconnections of all proposed Distribution Network Operator supplied equipment.
- 4. Connections to Distribution Network Operator supplied equipment to conform to Local Authority Specification.
- 5. All electrical works to comply with BS7671 (Wiring Regulations).
- 6. All street lighting equipment to be erected with a minimum clearance of 1m to the driveways.
- 7. All street lighting equipment to be erected no less than 1m from the kerb edge.
- 8. Street lighting equipment foundations to conform to Local Authority Specification.
- 9. Street lighting equipment positions to be marked out on site by the Local Authority Street Lighting Engineer. All columns to be sited within the adoptable highway. Street lighting equipment shall not be installed within dropped kerb areas.
- 10. Street lighting equipment numbering to be as instructed by the Local Authority Street Lighting Engineer.
- 11. All street Lighting works to be carried out by Local Authority approved contractors.
- 12. A list of all proposed equipment shall be issued to the Local Authority Street Lighting Engineer for approval prior to installation.
- 13. The Contractor is to provide the Local Authority with as-built drawings, test certificates and equipment data sheets.
- 14. Positioning of street lighting shall take precedence over any proposed tree planting.
- 15. The use of colour has been incorporated into the design so as to distinguish symbols and any reproduction of the drawing should only be produced in colour.
- 16. Procurement and installation of street lighting equipment should NOT commence until the Local Authority has granted approval in writing for the street lighting design. The design drawing shall be considered 'NOT FOR CONSTRUCTION' until approval has been received. Any works associated with this design without approval shall be entirely the risk of the developer.

#### Lighting Design Calculations

See Lighting Reality report files:-

'150006-LRA-01.pdf'

for further information with regard to lighting calculations.

### Lighting Class Lux Level Limits

Table 3 — S-series of lighting classes

Class	Horizontal illuminance			
	$\overline{E}$ in lx <sup>a</sup> [minimum maintained]	E <sub>min</sub> in lx [maintained]		
S1	15	5		
S2	10	3		
S3	7.5	1.5		
S4	5	1		
<b>S</b> 5	3	0.6		
S6	2	0.6		
S7	performance not determined	performance not determined		
<sup>a</sup> To provide for uniformity, the actual value of the maintained average				
illuminance may not exceed 1.5 times the minimum $\overline{E}$ value indicated for the				

# Project Name: Drawing Title: Sheet No.: Sheet 1 of 1 Lighting Design and Consultation

