



KEY TO ISOLUX CONTOURS

- 0.6 LUX
- 1 LUX
- 2 LUX
- 5 LUX

KEY TO LUMINAIRE SYMBOLS - PROPOSED ADOPTABLE

- Type "A1"**
Proposed new adoptable LED luminaire mounted post top on 6m fixed steel column at 0° tilt
Lantern: Urbis Axia 3.1 23W c/w 16no 3000K (warm white) LEDs driven at 460mA through a DALI dimming enabled driver, 7-Pin NEMA socket & type "52673" optic. Flux: 3.65klm
Elxon charge code: 42 0023 0000 100
Wiltshire ref: C3.6-3K
- Type "A2"**
Full specification the same as type "A1", but lantern shall be installed with the manufacturer's rear louvers
Wiltshire ref: C3.6-3K-BL
- Type "B1"**
Proposed new adoptable LED luminaire mounted post top on 5m fixed steel column at 0° tilt
Lantern: Urbis Axia 3.1 15W c/w 8no 3000K (warm white) LEDs driven at 540mA through a DALI dimming enabled driver, 7-Pin NEMA socket & type "52673" optic. Flux: 2.10klm
Elxon charge code: 42 0015 0000 100
Wiltshire ref: C2.1-3K
- Type "B2"**
Full specification the same as type "B1", but lantern shall be installed with the manufacturer's rear louvers
Wiltshire ref: C2.1-3K-BL
- Type "C1"**
Proposed new adoptable LED luminaire mounted post top on 5m mid-hinged steel column at 0° tilt (Arrow on symbol shows suggested direction of lowering for maintenance)
Lantern: Urbis Axia 3.1 15W c/w 8no 3000K (warm white) LEDs driven at 270mA through a DALI dimming enabled driver, 7-Pin NEMA socket & type "52963" optic. Flux: 1.13klm
Elxon charge code: 42 0008 0000 100
Wiltshire ref: A1.1-3K
- Type "C2"**
Full specification the same as type "C1", but lantern shall be installed with the manufacturer's rear louvers
Wiltshire ref: A1.1-3K-BL
- Type "D1"**
Proposed new adoptable LED luminaire mounted post top on 5m mid-hinged steel column at 0° tilt (Arrow on symbol shows suggested direction of lowering for maintenance)
Lantern: Urbis Axia 3.1 15W c/w 8no 3000K (warm white) LEDs driven at 540mA through a DALI dimming enabled driver, 7-Pin NEMA socket & type "52673" optic. Flux: 2.10klm
Elxon charge code: 42 0015 0000 100
Wiltshire ref: C2.1-3K

KEY TO LUMINAIRE SYMBOLS - PROPOSED NON ADOPTABLE

- Type "E1"**
Proposed new LED luminaire mounted post top on 5m fixed steel column at 0° tilt
Lantern: TRT Opto Nano 13W with 12no 3000K (warm white) LEDs, DALI dimming enabled driver, 7-Pin NEMA socket & type "GR4" optic.
Flux: 1.77klm
Elxon charge code: 42 0013 0000 100
Lantern ref: OPN12_LED-V1_13W_GR4_3000K_EXP
- Type "F1"**
Proposed new LED luminaire mounted post top on 5m mid-hinged steel column at 5° tilt (Arrow on symbol shows suggested direction of lowering for maintenance)
Lantern: TRT Opto Nano 13W with 12no 3000K (warm white) LEDs, DALI dimming enabled driver, 7-Pin NEMA socket type "GR4" optic and the manufacturer's back light shield. Flux: 1.77klm
Elxon charge code: 42 0013 0000 100
Lantern ref: OPN12_LED-V1_13W_GR4_BS_3000K_EXP

KEY TO OTHER SYMBOLS

- 1mx1m adoptable pad adjoining the adoptable carriageway, built to Wiltshire CC specification
- Application site boundary
- Dark corridor boundary

DESIGN COMMENTARY

Brief
This drawing is intended for planning purposes. It shows the basic equipment specification and design levels achieved by the street lighting proposal for the privately areas requested. The site shall be accessed from adoptable roads. Currently there is no lighting design for this area to tie into.

Design levels
BS EN 13201-2 2015
Private roads: P5 (Eav 3.00 - 4.50 lux, Emin 0.60lux)
-Table A5 of BS 5489-1 2020 suggest lighting class of P4 based on:
Environmental zone E3, low traffic speed and quiet usage. In practice, private drives are very short spaces, serving few dwellings in quiet residential areas, where levels equivalent to P4 would contribute to excessive light spill and street furniture. The lighting class in these areas has therefore been reduced to P5.

Maintenance factor calculation
A maintenance factor of 0.78 is applied to all lighting in this calculation based on:
LFF: 0.95 as per TRT specification
LSF: 0.98 as per TRT specification
LMF: 0.84 as per Table C1 of BS 5489-1 2020

NOTES

- 1. This drawing is intended for planning purposes and is not intended for construction. No element of this design shall be purchased or constructed until approval is granted by the overseeing authority.
- 2. This drawing must be printed in colour
- 3. All dimensions are in metres unless specified otherwise

CALCULATION RESULTS
REF: P26062-LRA-PL-C02-V1

Grid 1 Results - Horizontal Illuminance (lux) Eav= 3.01 Emin= 0.69 Emax= 6.49 Emin/Eav= 0.11 Emax/Eav= 2.16	Grid 2 Results - Horizontal Illuminance (lux) Eav= 3.13 Emin= 0.78 Emax= 6.53 Emin/Eav= 0.12 Emax/Eav= 2.09	Grid 3 Results - Horizontal Illuminance (lux) Eav= 3.66 Emin= 1.07 Emax= 6.92 Emin/Eav= 0.15 Emax/Eav= 1.89	Grid 4 Results - Horizontal Illuminance (lux) Eav= 4.27 Emin= 1.13 Emax= 8.41 Emin/Eav= 0.13 Emax/Eav= 1.93	Grid 5 Results - Horizontal Illuminance (lux) Eav= 4.16 Emin= 1.32 Emax= 6.99 Emin/Eav= 0.19 Emax/Eav= 1.68	Grid 6 Results - Horizontal Illuminance (lux) Eav= 3.78 Emin= 0.79 Emax= 8.02 Emin/Eav= 0.10 Emax/Eav= 2.12
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Horizontal Illuminance (lux)

P01	FIRST ISSUE	MVO	SDL	23/06/26
Rev	DESCRIPTION	DRWN	CHK	DATE
DPL LIGHTING Grove House Lutyens Close Chineham Court Basingstoke Hampshire RG24 8AG T 01256 578030 E enquiries@dpl-lighting.co.uk W www.dpl-lighting.co.uk				
CLIENT/CUSTOMER				
David Wilson Redrow				
PROJECT				
Ashton Park Phase 2 Trowbridge				
TITLE				
Non Adoptable Street Lighting Calculation				
DRAWN	SCALE	DATE		
MVO	1:500 AT A1	15/06/2026		
DRAWING NUMBER	ISSUE			
P26062-DRG-PL-02-SHEET2	P01			
DO NOT SCALE FROM THIS DRAWING				
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