



KEY TO LUMINAIRE SYMBOLS PROPOSED TO REMAIN UNDER PRIVATE MANAGEMENT

- Proposed new LED luminaire to remain under private management, mounted post top on 5m fixed steel column at 0° tilt
Lantern: TRT Aspect Mini 4 14W CLO c/w 16no 3000K (warm white) LEDs, DALI dimming enabled driver, 7-PIN NEMA socket & type "GR5" optic
Flux: 0.92klm
- Proposed new 1.13m LED illuminated bollard to remain under private management
Bollard specification: TRT VIA DARK SKY CLO 9W c/w 3000K (warm white) LEDs, asymmetric distribution optic, integral miniature photocell & fused isolator
Flux: 0.43klm

KEY TO LUMINAIRE SYMBOLS - PROPOSED ADOPTABLE WORKS (P25902-AD-01) - SHOWN FOR TIE-IN PURPOSES ONLY

- 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
- Type "A2"
Full specification the same as type "A1", but lantern shall be installed with the manufacturer's rear louvers
- Type "A3"
Full specification the same as type "A1", but lantern shall be mounted on a 6m mid-hinged raise and lower column at 0° (Arrow on symbol denotes the direction of lowering for maintenance)
- 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 "52663" optic
Flux: 2.10klm
- Type "B1"
Full specification the same as type "B1", but lantern shall be installed with the manufacturer's rear louvers

KEY TO OTHER SYMBOLS

- Approved section 278 street lighting - shown for tie-in purposes only
- Application site boundary
- 1mx1m adoptable pad, built to Wiltshire CC specification

DESIGN COMMENTARY

- This drawing shows the calculated light levels produced by the on-site, privately managed street lighting only, for the on-site adoptable works, see dwg ref: P25902-01
- A lighting class of "P5" from BS:EN13201-2 2015 is generally achieved in all privately managed roads.
P5: Eav: 3 lux - 4.5 lux, Emin: 0.6 lux
- The design uses a combination of street lighting columns and illuminated bollards, to provide lighting for the purpose of navigation to and from residences
- The adjoining S278 street lighting on Leap Gate road and West Ashton Road is taken from drawing ref P23702 by DPL Lighting and is used for tie in purposes in this design
- All luminaires are to be programmed to the WCC residential dimming regime (D19) as follows:
75% - 20.00hrs to 23.00hrs and 50% - 23.00hrs to 6:00hrs
- The lighting design for the adjoining parcel to the north-east is yet to be completed, therefore no lighting is shown for tie-in purposes

GENERAL NOTES

- No element of this drawing is to be purchased or constructed until technical approval is granted
- This drawing must be printed in colour

CALCULATION RESULTS
REF: P25902-PR-C01-V7

Grid 1
Results - Horizontal Illuminance (lux)
Eav= 4.90
Emin= 1.42
Emax= 10.03
Emin/Emax= 0.14
Emin/Eav= 0.29
Emax/Eav= 2.05

Grid 2
Results - Horizontal Illuminance (lux)
Eav= 3.34
Emin= 0.82
Emax= 13.77
Emin/Emax= 0.06
Emin/Eav= 0.25
Emax/Eav= 4.12

Grid 3
Results - Horizontal Illuminance (lux)
Eav= 3.29
Emin= 0.85
Emax= 7.64
Emin/Emax= 0.11
Emin/Eav= 0.26
Emax/Eav= 2.32

Grid 4
Results - Horizontal Illuminance (lux)
Eav= 4.35
Emin= 0.74
Emax= 25.31
Emin/Emax= 0.03
Emin/Eav= 0.17
Emax/Eav= 5.82

KEY TO ISOLUX CONTOURS

- 0.6 LUX
- 1 LUX
- 3 LUX
- 5 LUX
- 10 LUX

P10	LC14 Relocated to opposite side of road to enable more tree planting	SDL		09.03.26
P09	New layout - LC19 shifted down to accommodate VP space	SDL		06.03.26
P08	New red line boundary	SDL		29.01.26
P07	Repositioned LC01, LC09 and LC20 relocated, P1 coll at plot 60 relocated to avoid car down	SDL	DPL	28.01.26
P06	New landscaping layer added	SDL	DPL	22.01.26
P05	New layout, P1 coll between plot 59 and 60 relocated to 0.8m from carriageway	SDL	DPL	15.01.26
P04	New layout, 2no pvt code removed as area now adoptable	SDL	DPL	13.01.26
P03	New layout plot 71, 1no street light to LC13, Car column plot 60 moved out of BOP	SDL	DPL	05.09.25
P02	New layout (Rev B), Column moved out of plot 60 garden	SDL	DPL	29.08.25
P02	Original Issue	SDL	DPL	13.08.25
Rev.	DESCRIPTION	DRWN	CHK	DATE

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PROJECT
ASHTON PARK
TROWBRIDGE

TITLE
PRIVATELY MANAGED STREET LIGHTING
CALCULATION SUMMARY

DRAWN	SCALE	DATE
SDL	1:500 @ A1	13.08.25
DRAWING NUMBER	ISSUE	
P25902-PR-01	P10	

DO NOT SCALE FROM THIS DRAWING
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