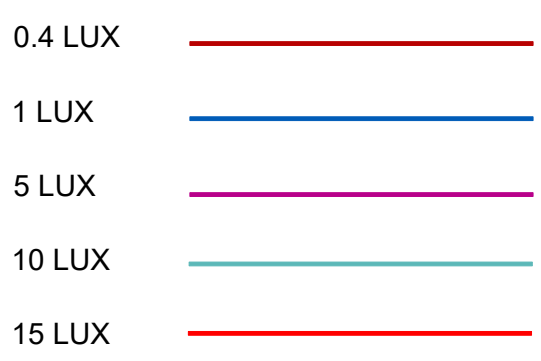




KEY TO ISOLUX CONTOURS



KEY TO LIGHTING SYMBOLS

ADOPTABLE STREET LIGHTING

- NEW 6m LIGHTING UNIT WITH 20 WATT LED LUMINAIRE POST TOP MOUNTED AT 5° INCLINATION COMPRISING:
LUMINAIRE
CU PHOSCO, P852K LUMINAIRE WITH 12 No NEUTRAL WHITE LEDs (4000K), 500mA DALI ENABLED DRIVER, CLO, TYPE R2B OPTIC, 7 PIN NEMA SOCKET.
FOR POST TOP MOUNTING ON 76mm SPIGOT
PRE-PROGRAMMED TO SGCs STANDARD DIMMING REGIME
LANTERN REF. P852K-12-R2B-NW-CB500-20W
SGC ORDERING CODE SGC-CU-S-20W-M19
- NEW 6m LIGHTING UNIT WITH 20 WATT LED LUMINAIRE POST TOP MOUNTED AT 0° INCLINATION COMPRISING:
LUMINAIRE
CU PHOSCO, P852K LUMINAIRE WITH 12 No NEUTRAL WHITE LEDs (4000K), 500mA DALI ENABLED DRIVER, CLO, TYPE R2B OPTIC, 7 PIN NEMA SOCKET.
FOR POST TOP MOUNTING ON 76mm SPIGOT
PRE-PROGRAMMED TO SGCs STANDARD DIMMING REGIME
LANTERN REF. P852K-12-R2B-NW-CB500-20W
SGC ORDERING CODE SGC-CU-S-20W-M19
NOTE: MANUFACTURERS BACK LIGHT SHIELD TO BE FITTED
- NEW 6m LIGHTING UNIT WITH 15 WATT LED LUMINAIRE POST TOP MOUNTED AT 0° INCLINATION COMPRISING:
LUMINAIRE
CU PHOSCO, P852K LUMINAIRE WITH 12 No NEUTRAL WHITE LEDs (4000K), 350mA DALI ENABLED DRIVER, CLO, TYPE R2B OPTIC, 7 PIN NEMA SOCKET.
FOR POST TOP MOUNTING ON 76mm SPIGOT
PRE-PROGRAMMED TO SGCs STANDARD DIMMING REGIME
LANTERN REF. P852K-12-R2B-NW-CB350-15W
SGC ORDERING CODE SGC-CU-S-15W-M19
NOTE: MANUFACTURERS BACK LIGHT SHIELD TO BE FITTED
- EXISTING P852K LUMINAIRE TO REMAIN UNALTERED
LANTERN REF. P852K-12-R2B-NW-CB500-20W
NOTE:
LOCATION 8 - LUMINAIRE IS MOUNTED ON WOODEN TELEPHONE POLE AT 4.8m HEIGHT , 5° INCLINATION
LOCATION 10 - LUMINAIRE IS MOUNTED POST TOP ON 6m COLUMN AT 5° INCLINATION
- EXISTING 6m COLUMN TO BE DISCONNECTED FROM THE DNO SUPPLY AND REMOVED. LUMINAIRE AND PHOTOCELL ARE TO BE RETAINED FOR REUSE IN NEW LOCATION

DOMESTIC EXTERNAL LIGHTING

- DETA LED STAINLESS STEEL WALL LIGHT WITH PIR, INTERNALLY SWITCHED WITH DUSK TO DAWN SENSOR. FITTED WITH 5W GU10 LAMP, WITH 2700K LEDs AND 36 DEGREE OPENING
LUMINAIRE FLUX = 0.49klm
REF. L2855LED6
MOUNTED AT 1.8m HEIGHT BESIDE FRONT DOOR
- BRACKENHEATH ISPOC FRAMELESS CCT FLOODLIGHT 20W CCT + PIR
FITTED WITH 3000K LED GIVING
LUMINAIRE FLUX = 1.8klm
REF. 12025B
WALL MOUNTED AT 2.0m HEIGHT BESIDE REAR DOOR
INCLINED AT 60DEGREES TO THE DOWNWARDS VERTICAL



OTHER SYMBOLS

- S38 ROADS/ FOOTPATH
- S278 WORKS
- SITE BOUNDARY

LIGHTING DESIGN COMMENTARY

STREET LIGHTING

- THE STREET LIGHTING IS INTENDED TO ACHIEVE A LIGHTING CLASS TO BS EN13201-2:2015 / BS5489-1:2020 CLASS P4. REFER TO TABLE A5 ASSUMING:
- E3 ENVIRONMENTAL ZONE
- QUIET / NORMAL TRAFFIC
- NO SIGNIFICANT CRIME RISK
- ALL CALCULATIONS ARE UNDERTAKEN WITH A MAINTENANCE FACTOR OF 0.76 APPLIED. (TABLE C1 OF BS5489-1, WITH E3 ZONE, 72 MONTH CLEANING, 6m HEIGHT)
- STREET COLUMNS ARE SITED AT PARTY BOUNDARIES BETWEEN PROPERTIES OR AT THE ENDS OF PROPERTIES WHERE POSSIBLE
- REAR SHIELDS ARE PROPOSED AT NEW POSITIONS IN THE CUL-DE-SAC, DUE TO CLOSE PROXIMITY OF NEW HOUSING
- ALL COLUMNS ARE TO BE SITED AT THE REAR OF THE FOOTPATH WHERE POSSIBLE
- WHERE THERE ARE NO FOOTPATHS THE COLUMNS ARE TO BE SITED 800mm BEHIND THE KERB ON A 1m X 1m PARCEL OF LAND WHICH IS TO BE ADDED TO THE ADOPTABLE AREA

DOMESTIC EXTERIOR LIGHTING

PORCH LIGHTING

- A PORCH LIGHT IS TO BE FITTED ALONGSIDE EACH FRONT ENTRANCE DOOR AS SHOWN. TO MINIMISE VISUAL INTRUSION THE CHOSEN LUMINAIRE :
- IS DOWNWARDS FACING ONLY GIVING NO DIRECT UPWARDS LIGHT
 - HAS A LOW WATTAGE (5W) LED LAMP, WITH A COLOUR TEMPERATURE OF 2700K (VERY WARM WHITE.)
 - HAS PIR ACTIVATION SO WILL ONLY BE SWITCHED ON WHEN THERE IS SOMEONE IN THE VICINITY. THE PIR IS ADJUSTABLE AND THE LAMP CAN BE SWITCHED ON FOR A MAXIMUM OF 4 MINUTES FOLLOWING ACTIVATION
 - INCLUDES A PHOTOCELL SO LAMP IS NOT LEFT ON DURING DAYLIGHT
 - THE FITTING WILL BE INSTALLED AT APPROXIMATELY 1.8m HEIGHT

REAR GARDEN LIGHTING

- A REAR GARDEN FLOODLIGHT IS PROPOSED FOR EACH PROPERTY. THE FITTING WILL BE INSTALLED BESIDE THE REAR DOOR AT A HEIGHT OF APPROXIMATELY 2.0m
- ALL FLOODLIGHTS ARE SPECIFIED WITH 3000K LED LIGHT SOURCE (WARM WHITE)
 - FLOODLIGHTS HAVE PIR DETECTORS TO ENSURE OPERATION ONLY WHEN MOVEMENT IS DETECTED
 - THE CALCULATIONS ASSUME THAT THE FLOODLIGHT WILL BE INCLINED AT 70 DEGREES TO THE DOWNWARDS VERTICAL (EXCEPT PLOT 5, WHICH IS AT 50 DEGREES)

THE ISOLUXES SHOWN ON THIS DRAWING ASSUME

- ALL STREET LIGHTING AND ALL EXTERIOR DOMESTIC LIGHTING IS SWITCHED ON AND OPERATING AT FULL OUTPUT. IT IS EXTREMELY UNLIKELY THAT THIS WILL EVER HAPPEN SO THE DRAWING SHOWS ON OVER ESTIMATION
- THE SOFTWARE USED CANNOT ACCOUNT FOR SHADOWING/BLOCKING FROM OBSTACLES SUCH AS FENCES AND BUILDINGS. SPILL LIGHT IS THEREFORE OVER ESTIMATED. THE MOUNTING HEIGHT OF DOMESTIC LIGHTING IS LOW AND A 1.8m CLOSE BOARDED FENCE AT THE BOUNDARY, WOULD EFFECTIVELY BLOCK MOST OF THE SPILL LIGHT

B	Updated adoptable layout incorporated	DPL	6.7.21
A	Final planning	DPL	1.6.21
Rev	DESCRIPTION	DRWN	CHK DATE

DPL LIGHTING
 14 Appletree Close | Oakley | Basingstoke | Hampshire | RG23 7HL
 T 01256 780531 | M 07455 826303
 E enquiries@dpl-lighting.co.uk | W www.dpl-lighting.co.uk

CLIENT/CUSTOMER

 EG CARTER & CO LTD

 Infrastruct CS Ltd

PROJECT
 QUARRY ROAD
 ALVESTON

TITLE
 ALL EXTERIOR LIGHTING
 FOR ASSESSMENT

DRAWN	SCALE	DATE
DPL	1:250 @A1	1.6.2021
DRAWING NUMBER	ISSUE	
P21524-03	B	

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Horizontal Illuminance (lux)