

1.0 lux
3.0 lux
5.0 lux

Notes:
All LED luminaires must have Constant Light Output (CLO).
Automatically dimmed to 75% each night from 12 midnight to 6am.
(U14 Profile)
All luminaires to have 7pin NEMA sockets fitted.
Electronic photocells switched at 35/18lux
All columns, luminaires, cable and pillars, shall comply with Local Authority General Specification for Public Lighting.
No trees to be located within falling distance of PL columns.
Minimum set-back of columns is 800mm from face of kerb.
Public lighting cable chamber as per Local Authority PL Dept. specification.

Volt drop calculation for the most onerous circuit

ESB SUPPLY	SOURCE PILLAR	CIRCUIT	DESIGN CURRENT (Amps per Phase)	CABLE SIZE (sq.mm.)	CABLE LENGTH (m)	FUSE (Amps)	VOLT DROP (Volts)
S1	MP1	MAN	0.72	2x60	150	16	0.51

TYPE C1 COLUMN DETAILS
HEIGHT : 6m
BRACKET LENGTH : 0.3m Twin Stub bracket
INCLINATION : 0 Degrees
COLUMN QUANTITY : 2 (4 luminaires)
LANTERN DETAILS
AVERAGE WATTAGE (CLO) : 18
MAKE & MODEL : C.U.Phosco E950-28LP-P4A-730-C700

TYPE D COLUMN DETAILS
HEIGHT : 5m ABACUS Raise & lower type
BRACKET LENGTH : Post-top
INCLINATION : 0 Degrees
COLUMN QUANTITY : 2
LANTERN DETAILS
AVERAGE WATTAGE (CLO) : 18
MAKE & MODEL : C.U.Phosco E950-28LP-A2A-730-C700

TYPE E COLUMN DETAILS
HEIGHT : 6m
BRACKET LENGTH : Post-top
INCLINATION : 5 Degrees
COLUMN QUANTITY : 2
LANTERN DETAILS
AVERAGE WATTAGE (CLO) : 33
MAKE & MODEL : C.U.Phosco E950-28HP-F2A-730-SD0775

TYPE E1 COLUMN DETAILS
HEIGHT : 6m
BRACKET LENGTH : 0.3m Twin Stub bracket
INCLINATION : 5 Degrees
COLUMN QUANTITY : 2 (4 luminaires)
LANTERN DETAILS
AVERAGE WATTAGE (CLO) : 33
MAKE & MODEL : C.U.Phosco E950-28HP-F2A-730-SD0775

Existing LED luminaire estimated as Urbis Axia 2.2
48 LED@ 800mA, 5187 optic.

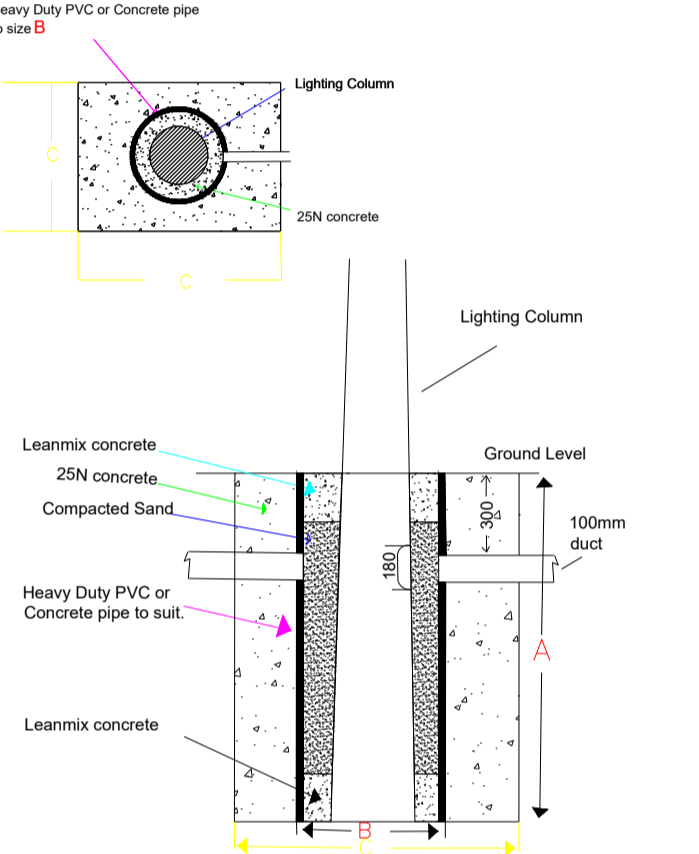
TYPE B COLUMN DETAILS
HEIGHT : 6m
BRACKET LENGTH : Post-top
INCLINATION : 5 Degrees
COLUMN QUANTITY : 2
LANTERN DETAILS
AVERAGE WATTAGE (CLO) : 18
MAKE & MODEL : C.U.Phosco E950-28LP-P4A-730-C700

TYPE C COLUMN DETAILS
HEIGHT : 6m
BRACKET LENGTH : Post-top
INCLINATION : 0 Degrees
COLUMN QUANTITY : 2
LANTERN DETAILS
AVERAGE WATTAGE (CLO) : 18
MAKE & MODEL : C.U.Phosco E950-28LP-P4A-730-C700

20kVg NYCY cable laid in ducting to I.S.10101:2020.
Single wall ducting, colour red to be used
manufactured from high density polyethylene (H.D.P.E.),
107mm external diameter, having a wall thickness of 5mm.
This ducting to have the words "Street Lighting" stamped on
either side every 1m intervals. The lettering to face upmost
in the trench. All works to Local Authority specification.
This is a circuit layout and not indicative of where ducts are to be laid.
Public Lighting Pillar (located at least 2m from ESB pillar)

Typical Base detail, to be checked by site engineers.

COLUMN MOUNTING HEIGHT	12m	10m	8m	6m
COLUMN ROOT DEPTH	1.9m	1.7m	1.5m	1.0m
CABLE ENTRY DEPTH	0.3m	0.3m	0.3m	0.3m
ROOTING CONCRETE DEPTH				
COLUMN DOOR HEIGHT	1.5m	1.5m	1.5m	1.5m
COLUMN SLEEVE SIZE(mm) internal	450	400	400	300
EXCAVATION (width x length)	1000	800	600	400



NOTES
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NO ACCOUNT IS TAKEN FOR THE BLOCKING EFFECT CAUSED BY BUILDINGS, TREES ETC. THE CALCULATION SHOWN BY THIS DRAWING ASSUMES THAT THE WHOLE AREA BEING CONSIDERED IS IN THE SAME PLANE, I.E. THERE ARE NO CHANGES IN GRADIENT OR ELEVATION.

This drawing layout is based on calculated lighting levels, produced by Sabre Electrical Services Ltd., using Lighting Reality software. Any alterations to the layout or luminaire type used for the lighting design calculations, will require a revised lighting design to be carried out. A redesign may require approval from the Local Authority Public Lighting Dept. prior to any alterations/modifications being implemented on site.

Sabre
ELECTRICAL SERVICES LTD.
Specialist Contractors
PUBLIC LIGHTING - FLOOD LIGHTING - SPORTS LIGHTING

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-	?	GS	CHK
-	?	GS	CHK
-	?	GS	CHK
-	?	GS	CHK
-	?	GS	CHK
-	?	GS	CHK
-	?	GS	CHK
-	?	GS	CHK

REV DESCRIPTION INTS CHK'D DATE

CLIENT/CUSTOMER
DCE IRL

PROJECT
Enfield Park & Ride

TITLE
Public Lighting Layout

DRAWN SCALE DATE
A.N 1:500@A1 05-04-22

DRAWING NUMBER ISSUE
SES 04422 1

BASE DRAWING NUMBER
4456 C02A

DRAWING ORIGIN
DCE IRL

DO NOT SCALE FROM THIS DRAWING

