

Comparable Level of Lighting Classes from BS5489:2013										
ME Class	-	ME1	ME2	ME3	ME4	ME5	ME6	-	-	-
CE Class	CE0	CE1	CE2	CE3	CE4	CE5	-	-	-	-
S Class	-	-	-	S1	S2	S3	S4	S5	S6	-
P Class	-	-	-	P1	P2	P3	P4	P5	P6	-
Car Parks	-	-	Heavy	-	Medium	-	Light	-	-	-

Summary of Lighting Car Park Classes from BS5489:2013		
Usage	Eave	Uo
Heavy	20 Lux	25%
Medium	10 Lux	25%
Light	5 Lux	25%

The light level in the car park has been designed to a lower level than the standards indicated which is consistent with the lighting levels of P5 (average 3 lux minimum 0.6 lux) provided on the adopted highway

Summary of lighting for Parking areas from BSEN12464-2 :2014			
Class	Description	Eave	Uo
5.9.1	Light traffic, e.g. parking areas of shops, terraced and apartment houses; cycle parks	5	25%
5.9.2	Medium traffic, e.g. parking areas of department stores, office buildings, plants, sports and multipurpose building complexes	10	40%
5.9.3	Heavy traffic, e.g. parking areas of major shopping centres, major sports and multipurpose building complexes	20	40%

Iso
4088 points at z=0, sp 1.5m by 1.5m
HORIZONTAL LUX
Average 0.9
Maximum 15.3
Minimum 0.0
Min/Avg(Uo) 0.000
Min/Max 0.000
Coef Var 2.091
UnifGrad N/A

Car Park
168 points at z=0, sp 1.5m by 1.5m
HORIZONTAL LUX
Average 1.9
Maximum 5.2
Minimum 0.1
Min/Avg(Uo) 0.054
Min/Max 0.019
Coef Var 0.740
UnifGrad 2.00

Notes

- All columns and signs shall be serviced via private supply.
- Columns shall be fitted with secondary isolation above the cut out. The Unit shall be Charles Endirect LSI-02 with a 32A Isolator and as BS88 Fuse Carrier. Fuse discrimination shall comply with BS7671 between the cut out and the secondary isolation.
- Where there are known services in the vicinity of excavations the Contractor shall ensure hand digging is carried out with care. The Contractor shall arrange for statutory undertakers plant to be marked on site prior to excavations with mechanical excavators.
- In this instance the use of 3 dimensional masking has **not** been used to take into consideration the actual position of high sided objects such as buildings and the like. Trees and shrubs etc have not been considered as their masking ability will vary with seasonal conditions.
- Iso contours produced in this drawing have been created using a conventional symmetrical grid. This does not take into account the spacing or weightings as detailed in BS5489 or BS EN 13201-3:2003
- Equipment shown on this drawing is available through most specialist street lighting electrical distributors like Electrical Lighting Solutions (www.elsltd.co.uk), Marwood Electrical (www.marwoodelectrical.co.uk) or Maclean Electrical (www.maclean.co.uk)
- Copies of the original lighting reality calculations available upon request please send a email to mail@nicksmithassociates.com quoting the project number,
- The lighting levels on this project have been reduced using the light source S/P ratio in accordance with BS5490-1:2013 and PLG03.
- Column P2 to be fitted with rear shield

Key

- Existing 6m column with post mounted Urbis Altra lantern with 36w PLL lamp to remain
- Existing 5m column with hockey stick bracket and Philips M126 lantern with 35w SOX lamp to remain
- Proposed steel galvanised 5m column with post mounted TRT Lighting Aspect Eco lantern (14W Aspect Eco 1 MR Lens) with neutral white LED to deliver 1600 lumens, integral driver and photocell set to switch on at 35 lux with 2:1 negative switching ratio.
- Project column number
- Existing column number
- 3 lux iso-contour line
- 0.6 lux iso-contour line
- Wattage:11w
Charge Code : 42 011 0000 100
Switching Regime: 808



B	P2 removed after request from client	RSS	NWS	09.04.18
A	Shield note added to column P2. P3 position revised	RSS	NWS	23.03.18
REV	DETAILS	APP	DWN	DATE

Drawing Number	Revision
2396-D-01	B

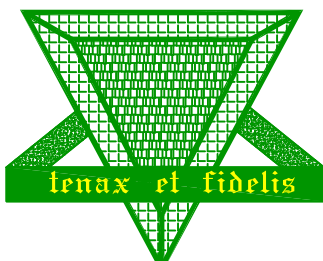
Client
Stafford Infrastructure Engineering

Project
Park Lane,
Donington
Lincolnshire

Drawing Title
Proposed
Privet Lighting
and Illuminance
Layout

Scale at A2 1-500	Sheet 1 of 1
Drawn NWS	Date 01.03.2018

Nick Smith Associates Ltd



Tel: 01246 229444
Fax: 01246 270465
mail@nicksmithassociates.com
www.nicksmithassociates.com