



KEY

- SGS253 GB OR P0 lamp(s): SON-TPP250W 2 luminaires per location, candela file 'SGS253 GB 1xSON-TPP250W OR P0.lgt' 1 lamp(s) per luminaire, 33200 initial lumens per lamp Maintenance Factor = 0.850, watts per luminaire = 276 Outreach (from mounting axis to photometric center)= 500 mm tilt angle= 5 deg mounting height= 10 m number locations= 6, number luminaires= 12
  - SGS253 GB OR P0 lamp(s): SON-TPP250W candela file 'SGS253 GB 1xSON-TPP250W OR P0.lgt' 1 lamp(s) per luminaire, 33200 initial lumens per lamp Maintenance Factor = 0.850, watts per luminaire = 276 Outreach (from mounting axis to photometric center)= 500 mm tilt angle= 5 deg mounting height= 10 m number locations= 9, number luminaires= 9
- Additional Car Park 5205 points at z=0, sp 1.5m by 1.5m
- |                |       |
|----------------|-------|
| HORIZONTAL LUX | 31    |
| Average        | 86    |
| Maximum        | 8     |
| Minimum        | 0.254 |
| Min/Avg(Uo)    | 0.093 |
| Min/Max        | 0.486 |
| Unif/Grad      | 1.33  |

For final luminaire specification confirmation, quotations and order codes, please contact your local Key Account Manager (KAM)

Potential Hazard Identification

Potential hazards identified on this proposal are made only from visual inspections of the drawings supplied. It is strongly recommended that robust risk assessments are conducted on-site by appropriately qualified personnel.

Energy Requirements	
Total Project Energy Consumption	5796 watts
Anticipated Annual Operating Hours	4000 Hours
Total Annual Running Cost	£2,550.24 p.a
Total Life-time Running Cost	£83,756.00

Calculated running costs are based on 0.11pence per Kw hr over the anticipated annual operating hours. Total life-time is estimated at 25 years. Calculated results do not take inflation into account. Results are based on the least energy option available.

**PHILIPS**

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Project Starkey Park Liverpool Second Car Park

Drawing No. D137617 Rev No. 2

Originator Chris Parkes

Key Account Manager Richard Law

Date 06.01.2016 Scale 1:250 @ A0 Sheet 1/1

- GENERAL NOTES:
- This Drawing proposal must be read in conjunction with all other relevant project drawings and specifications
  - Do not scale from this drawing. If in doubt please request further information
  - Drawing proposal shows lighting information and is not meant to be used for installation purposes. Information from it should be transferred to the contractors working drawings along with other information such as electrical connections and other illuminated equipment
  - Proposal based upon customer drawing provided and no survey on site has been carried out. Utility information such as underground and over ground cables and gas pipes etc. will need to be checked on site by installation contractor before excavation or installation of lighting equipment
  - Symbols indicate proposed locations of lighting equipment. For further information please refer to the luminaire schedules and details shown
  - Locations and orientation of all equipment must be confirmed with the lighting consultant prior to installation. Exact orientation of luminaires to be finalised during final focusing. Please refer to the Philips lighting solutions drawings and specifications for details of electrical engineering associated with lighting works

- All lighting throughout this site must be suitable for use within the local ambient temperature and within a saline environment
- All lighting equipment must be supplied with adequate means for protection during transport to site and any subsequent storage prior to installation
- For lighting to bridges, canopies, furniture or water features please refer to the relevant drawings and details
- For details of all luminaires please refer to the Philips lighting solutions luminaire schedule
- For cable routes, driver locations and any electrical works associated with the lighting installation please refer to the contractors installation drawings and documentation

- MAINTENANCE AND CDM NOTES:
- The lighting installation requires a variety of luminaire types to achieve the desired effects. Information has been provided on this drawing as general guidance and outline of good practice. For more specific recommendations please refer to manufacturers details for application, operation, handling, cleaning and disposal instructions
  - Installation and maintenance of lighting equipment installed at any height above ground requires precautions to be taken. Access arrangements should be in strict accordance with the projects access report, method statement and health and safety guidelines
  - All fixtures must be electrically isolated prior to any testing or maintenance
  - All luminaires must be powered up for focusing during the hours of darkness, all are specified to be fully enclosed and earthed or operated at extra low voltage
  - All fixtures must be protected from damage by over-temperature by means of thermal cut-out or similar device

DISCLAIMER:

The nominal values shown on this drawing are the result of precision calculations, based upon precisely positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerances on manufacturers, luminaire positioning, reflection properties and electrical supply

This document contains information regarding liability for the purpose of a proposal. The information contained on this drawing or our proposal does not constitute a 'design' for the purposes of the Construction, Design and Management regulations 2007, therefore, Philips do not accept or assume the role of 'Designer' when submitting this information for whatever purpose or how-so-ever the information in this document is used by any other person

Philips Electronics UK Limited ('Philips') provides the attached lighting proposal ('Proposal') for the project stated ('Project') and customer ('Customer') subject to the following limitations: Customer has confirmed that the CDM regulations do not apply to this project. Philips has accordingly not undertaken any risk assessment for this proposal

Philips may not of had physical access to the site of the project to verify the information which has been provided and the design is therefore based solely on information provided by the customer to Philips. The customer is therefore responsible for ensuring that the designs produced can be safely implemented in compliance with any laws and regulations. Philips will not be held liable for any risk associated with the implementation of the design.

REVISION RECORD:

changes from previous issue

1. N/A