



Vertical calculation points @ 3m height

Vertical calculation points @ 3m height

Initial illuminance levels shown above

AMENDED

LIGHTING EQUIPMENT

- 12 x 6m Columns Each Carrying the Following Orion 3 Luminaire:-
C1 - C12 1 x AL4151 / 250W SONP-T, Lantern
- 8 x 6m Columns Each Carrying the Following Orion 3 Luminaire:-
C13 & C14 1 x AL4151 / 150W SONP-T, Lantern
C15 - C17 1 x AL4152 / 150W SONP-T, Shaded, Lantern
- 3 x 6m Columns Each Carrying the Following Trivium Luminaire:-
C18 - C20 1 x AL8313 / 50W SONP-T, Lantern
Bracket projection: 1.0m
Bracket: 0° / Spigot: 0° / Lantern: 0°
- 2 x 6m Columns Each Carrying the Following Trivium Luminaire:-
C21 & C22 1 x AL8313 / 50W SONP-T, Lantern
Bracket projection: 0.5m
Bracket: 0° / Spigot: 0° / Lantern: 0°
- 1 x 6m Column Each Carrying the Following Trivium Luminaire:-
C23 1 x AL8313 / 70W SONP-T, Lantern
Bracket projection: 1.0m
Bracket: +5° / Spigot: +5° / Lantern: 0°
- 2 x 6m Columns Each Carrying the Following Trivium Luminaire:-
C24 & C25 1 x AL8313 / 50W SONP-T, Lantern
Bracket projection: 0.5m
Bracket: +10° / Spigot: +10° / Lantern: 0
- 2 x 6m Columns Each Carrying the Following Trivium Luminaire:-
C26 & C27 1 x AL8313 / 50W SONP-T, Lantern
Bracket projection: 0.5m
Bracket: +5° / Spigot: +5° / Lantern: 0
- 2 x 6m Columns Carrying the Following Trejeto Luminaire:-
T1 & T2 1 x AL6419 / 250W SONP-T, Lantern
Post Top Mounted
- 1 x Mast carrying the Following Trent Luminaire:-
M1 2 x AL5023 / 150W SONP-T Twin ARC, Floodlight
- 4 x 6m Wall mounted Trent Luminaire:-
W1 - W4 1 x AL5023 / 150W SONP-T Twin ARC, Floodlight
- 2 x 6m Wall mounted Trivium Luminaire:-
W5 & W6 1 x AL8313 / 70W SONP-T, Lantern
Bracket projection: 1.0m
Bracket: +5° / Spigot: 0° / Lantern: 0°
- 3 x 6m Wall mounted Trivium Luminaire:-
W7 - W8 1 x AL8313 / 70W SONP-T, Lantern
Bracket projection: 0.5m
Bracket: 0° / Spigot: 0° / Lantern: 0°
- 1 x 6m Wall mounted Trivium Luminaire:-
W9 1 x AL8313 / 50W SONP-T, Lantern
Bracket projection: 0.5m
Bracket: +10° / Spigot: +10° / Lantern: 0°

LAMPS

- 250W SONP-T (33,200 LLm)
- 150W SONP-T (17,000 LLm)
- 70W SONP-T (8,600 LLm)
- 50W SONP-T (4,400 LLm)
- 150W SONP-T Twin ARC (15,000 LLm)

MAINTAINED HORIZONTAL ILLUMINANCE LEVELS

- Tesco Store**
Average Horizontal Illuminance (E_{av}): 22 Lux
Minimum Horizontal Illuminance (E_{min}): 6 Lux
Uniformity Ratio (E_{min} / E_{av}): 0.27
- Access Road / Recycle Area**
Average Horizontal Illuminance (E_{av}): 18 Lux
Minimum Horizontal Illuminance (E_{min}): 5 Lux
Uniformity Ratio (E_{min} / E_{av}): 0.28
- Tesco Service Yard**
Average Horizontal Illuminance (E_{av}): 26 Lux
Minimum Horizontal Illuminance (E_{min}): 7 Lux
Uniformity Ratio (E_{min} / E_{av}): 0.27
- Service Yard Access Road**
Average Horizontal Illuminance (E_{av}): 19 Lux
Minimum Horizontal Illuminance (E_{min}): 5 Lux
Uniformity Ratio (E_{min} / E_{av}): 0.26
- Staff Car Park**
Average Horizontal Illuminance (E_{av}): 20 Lux
Minimum Horizontal Illuminance (E_{min}): 5 Lux
Uniformity Ratio (E_{min} / E_{av}): 0.25
- PPF**
Average Horizontal Illuminance (E_{av}): 20 Lux
Minimum Horizontal Illuminance (E_{min}): 5 Lux
Uniformity Ratio (E_{min} / E_{av}): 0.25

New Retail Unit

- Factory Shop Car Park
Average Horizontal Illuminance (E_{av}): 20 Lux
Minimum Horizontal Illuminance (E_{min}): 5 Lux
Uniformity Ratio (E_{min} / E_{av}): 0.25
- Ropewalk Car Park
Average Horizontal Illuminance (E_{av}): 23 Lux
Minimum Horizontal Illuminance (E_{min}): 7 Lux
Uniformity Ratio (E_{min} / E_{av}): 0.30
- Factory Shop service yard
Average Horizontal Illuminance (E_{av}): 22 Lux
Minimum Horizontal Illuminance (E_{min}): 4 Lux
Uniformity Ratio (E_{min} / E_{av}): 0.27

- Grid Intervals 6m and 3m
Grid Values in Lux
Contours Values 5, 2 & 1 Lux

- Maintenance Factor: 0.80
Location: Medium Pollution
Cleaning Interval: 18 Months

Note
Please check suitability of all column and wall mounted locations before placing an order

Notes:-
1) Luminaire Alignment:
Symbol indicates the "reflector alignment axis" perpendicular to the flat face of the main reflector AND the position of the internal overspill shield (where fitted).

ABACUS LIGHTING LTD. Sutton-in-Ashfield, Nottinghamshire NG17 5FT England Tel: (+44) 01623 511111 Fax: (+44) 01623 552133 Email: light@abacus-lighting.com		Lighting Project: Tesco Maltkiln Road, Barton Upon Humber Title: Initial Illuminance Levels Design Ref: LS17937/6 Design By: Daniel Gooch Date: 11.01.10 Scale: 1:500@A1	
		Revision(s) From Previous Design:	

All illuminance values are the result of computer 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 luminaires, luminaire positioning, reflection properties and electrical supply.