

Calculation Area	Average Illuminance (Lux)	Minimum Illuminance (lux)	Uniformity Min/average
Existing Car Park Bays	64.3 lx	42.2 lx	0.66
Existing Car Park Bays	86.8 lx	66.5 lx	0.77
Existing Car Park	65.9 lx	29.7 lx	0.45
Car Park Bays	57.7 lx	29.9 lx	0.52
Existing Taxis & Loading Turning Head	106 lx	89.9 lx	0.85
Existing Pedestrian Route	87.6 lx	21.5 lx	0.25
Shared Ped/Cycle/Serviceing	67.1 lx	23.4 lx	0.35
Car Park Roadway Area	51.6 lx	25.3 lx	0.49
Pedestrian Walkway	29.4 lx	11.1 lx	0.38
Cenotaph Area	20.8 lx	9.34 lx	0.45
Most Pedestrian Area	25.6 lx	6.43 lx	0.25
Acc. Car Park Bays & M/C Bays	83.0 lx	61.3 lx	0.74
Car Park Roadway Area	68.3 lx	30.9 lx	0.45
Acc. Car Park Bays	44.5 lx	29.0 lx	0.65
Main Access Road	51.4 lx	23.6 lx	0.46
40 Car Parking Spaces	75.4 lx	39.0 lx	0.52
Existing Taxis & Loading Acc Car Park Bays	57.2 lx	34.8 lx	0.61
Existing Taxis & Loading	78.5 lx	46.5 lx	0.59
Existing Car Park Bays	72.6 lx	42.9 lx	0.59
Acc Car Park	58.5 lx	25.2 lx	0.43

NOTES

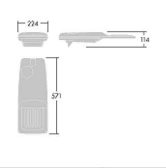
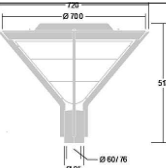
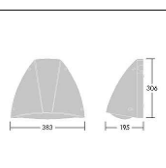
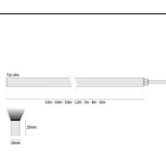
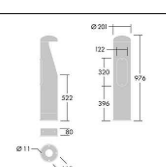
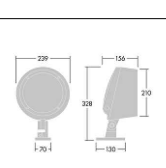
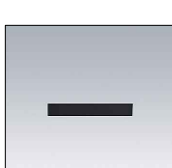
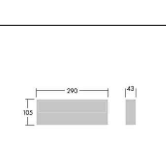
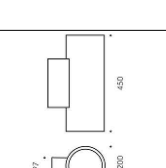
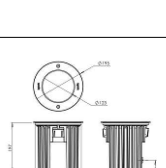
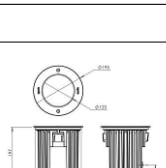
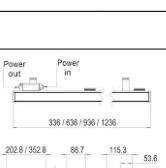
This CAD drawing represents the luminaire choice and layout as used for the lighting calculations:
"ZG-EVO-0002420007-EXT-R01-060825".

It does not show or consider all luminaires or final total quantities. This will need to be confirmed once the building facade designs (for both Hotel & Council HQ) have been finalised.

However, the general design principle for the facade lighting is to use 1x type LT7 & 1x Type LT8 between each column of windows, for the Hotel & Council HQ building respectively.

Hence this drawing represents an initial lighting concept and so is not exhaustive or definitive. Once the design and construction for the entire site has been finalised, the lighting solution will need to be reviewed and updated to establish whether all client expectations, lighting targets and planning requirements are all fulfilled. Any quote will also need to be revised accordingly.

LEGEND - INDICATIVE FITTINGS

TYPE LT1a ISARO PRO Mounted on 4m column.		
TYPE LT1b AVENUE F2 Mounted on 4m column		
TYPE LT2 PIAZZA 3 Wall surface mounted (as high as possible)		
TYPE LT3 MYSTRID FLEX Mounted under benches. Location for remote LED drivers to be provided.		
TYPE LT4 URBA BOLLARD Ground mounted.		
TYPE LT5 CONTRAST M For uplighting of feature trees and mounted to Council HQ facade to provide uplighting of vertical window reveal.		
TYPE LT6 AXYL GREET W		
TYPE LT7 CESAR AMP Up/Down lighting effect on Council HQ building facade. Wall mounted at approx. 11.3m AFFL.		
TYPE LT8 CAELON R12I M Uplighting effect on Hotel building facade. In-ground mounted. Walk-over.		
TYPE LT9 CAELON R12I AM Asymmetric beam to uplight "Huyton With Roby" memorial. In-ground mounted. Walk-over.		
TYPE LT10 EROA SI L12 M Downlighting the Hotel signs (if not self illuminating) Wall surface mounted.		

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NOTES:
This CAD drawing represents the luminaire choice and layout as used for the lighting calculations: "ZG-EVO-0002420007-EXT-R01-060825".

It represents an initial lighting concept and so is not exhaustive or definitive.

Please refer to the lighting calculations: "ZG-EVO-0002420007-EXT-R01-060825" for further details.

INFORMATION PROVIDED & USED
250606_L0016_Working.dwg
06147_250603_Pre-app 02-compressed.pdf
June Pre-App Hotel Design Document.pdf
SMP-LUD-P1-ZZ-DR-L-91-00-00-00_Ph1_GA_Plans-00.pdf

And all information contained with project E-Mails and conversations up to and including the date of the calculations shown. This includes comments on the original R00 design.

ACCURACY
Please note the current 3D model created within these lighting calculations is based on information provided in only PDF format (such as building elevations) therefore the tolerance in accuracy of the illuminance results and it effect shown and that achieved on-site would be expected to be significantly higher than normal.

ASSUMPTIONS
Surface Reflectance's = Building (23%), Ground (soft landscaping 15%, hard landscaping 45%)
Maintenance Factor (Light Loss Factor) = 0.8
Illuminance = See summary page for results.

LIGHTING CALCULATIONS
The area has been calculated using a basic 3D model to represent the main buildings, soft & hard landscaping and other main furniture to more accurately consider the main obstructions.

It should be noted that, the contribution of daylight and any other luminaires (existing or to be supplied by others) have not been included or considered in these lighting renders and that some luminaires have been dimmed on the lighting calculation therefore the use of some form of lighting control, presence detection and dimming is required to achieve the calculated results shown, maximise energy efficiency and reduce W/m2.

OBTUSIVE / UPWARD LIGHT
Considering all luminaires used within the current lighting calculation (not the final design) the total upward light, R(UL) = 1.4% (worst case scenario)

However, any post curfew planning permission requirements will also need to be confirmed and considered within the final design.

INITAL LIGHTING CONCEPT
The 3D renders and calculated results contained within this document represent an initial lighting concept and what is possible to achieve, and not a final design. It should be considered solely a guide as to what can be achieved.

Once the design and construction for the entire site has been finalised, the lighting solution will need to be reviewed and updated to establish whether all client expectations, lighting targets and planning requirements are all fulfilled. Any quote will also need to be revised accordingly.

P2	REVISED IN LINE WITH ZG LIGHTING DRG ZG-DWG-0002420007-EXT-R02-061025	08/10/25	JL
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REV.	DESCRIPTION OF CHANGES	DATED	BY
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THIS DRAWING HAS BEEN BASED ON ARCHITECTURAL LAYOUT:		
DRAWING NUMBER	REVISION	DATED

THIS DRAWING WAS PRODUCED IN AUTOCAD

☐ INFORMATION ONLY	☒ PRELIMINARY ISSUE
☐ FOR APPROVAL	☐ FOR CONSTRUCTION



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CLIENT:

PROJECT:
SMP HUYTON

DRAWING TITLE:
SITE
LIGHTING LAYOUT

CAD: PAS DS	DRAWN: JL	CHK'D: JL	DATED: 08/10/25	SCALE: N.T.S @ A1	REV: P2
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DRAWING No:
ZG-DWG-0002420007-EXT-R00-040725