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Lighting Assessment

Village Hotel Southampton
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SO53 3YJ

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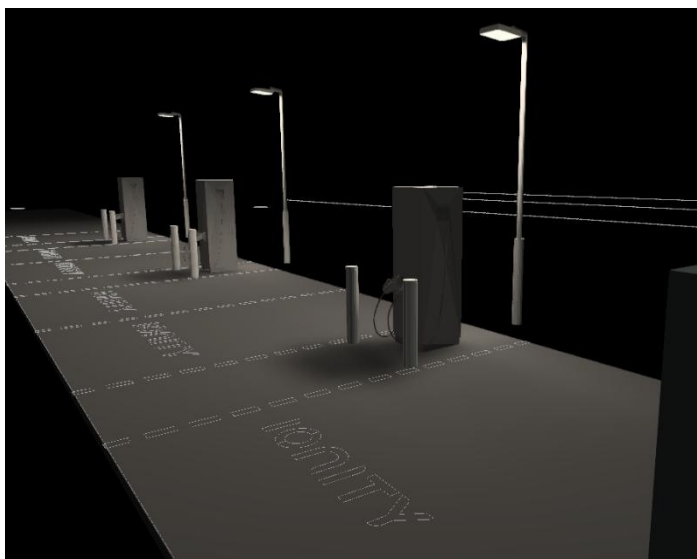
Revision	Date	Prepared By	Approved By
1 - Planning	11.08.2025	Andrew Brown	James Fegan
1 -Planning	10.11.25	Andrew Brown <i>ABrown</i>	James Fegan <i>James Fegan</i>

SECTION 1: Introduction / Site Details

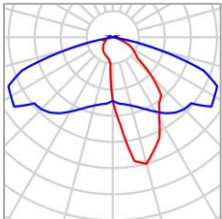
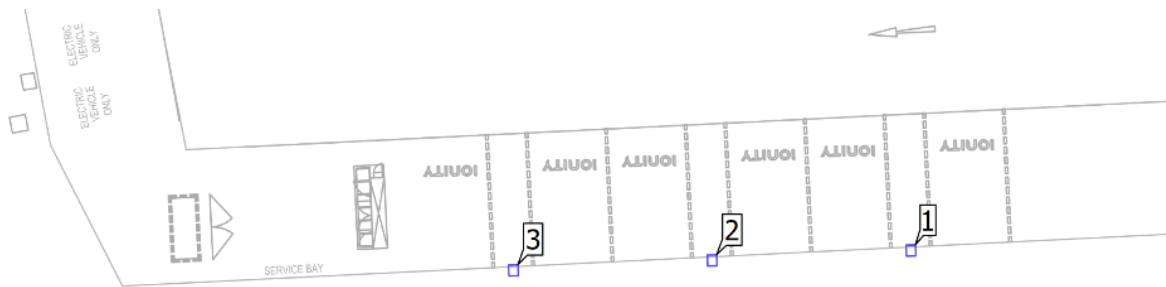
A lighting assessment has been undertaken as part of an Ionity project to add 3No. Alpitronic HYC 400 EVSP's at Village Hotel Southampton, SO53 3YJ to facilitate charging for 6 bays. This assessment has found that to ensure a minimum 50 lux level the following equipment is required.

- 3No. 'SB062A2' 62W Starbeam LED Smart including photocell control
- 3No. 'FC4' 4m Lighting Columns
- 3No. 'SB15863' Single outreach Arm
- 6No. Side baffles

The smart light proposed has smart functionality to dim the lighting when not in use, given the proposed site is within a hotel it is envisaged that the lighting will be primarily dimmed and the lighting levels proposed will not affect local wildlife in the adjoining vegetated areas as shown by the obstructive calculation below.

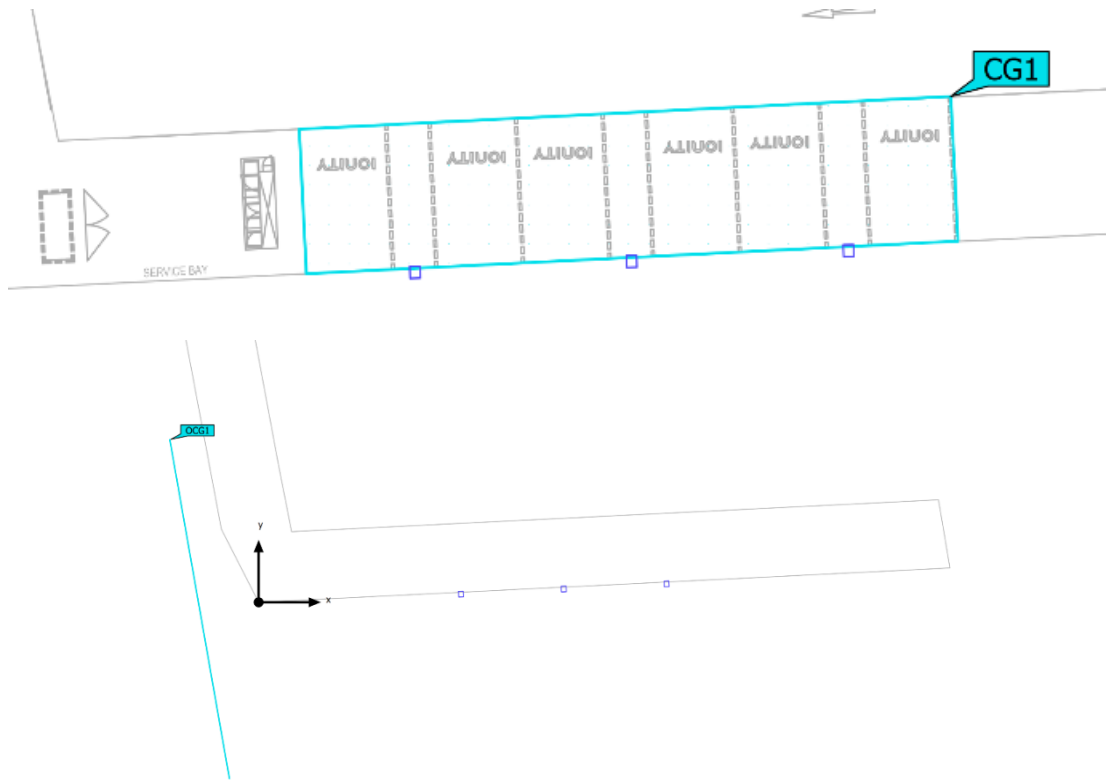


SECTION 2: Luminaire Layout Plan



Manufacturer	Thorlux Lighting	P	71 W
Article No.	SB062A2	ΦLuminaire	8830 lm
Article name	Starbeam LED - Area Distribution- 62W - Smart 4000K	Fitting	1x Starbeam LED - Area - 62W 4000K
Individual luminaires		Mounting height	Luminaire
X	Y		
29.715 m	1.334 m	4.000 m	1
22.223 m	0.962 m	4.000 m	2
14.733 m	0.588 m	4.000 m	3

SECTION 3: Calculation objects



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_i)$	g_2	Index
Calculate Surface 1 Horizontal illuminance Height: 0.000 m	65.9 lx	0.00 lx	180 lx	0.00	0.00	CG1
Obstructive light Calculate Surface 1 Vertical illuminance Height: 1-4 m	0.074 lx	0.000 lx	0.57 lx	0.00	0.00	OCG1

Utilisation Profile: Parking areas (5.9.3 Heavy Traffic, eg. Parking areas of schools, churches, major shopping centres, major sports and multipurpose building complexes)

SECTION 4: Light Scenes

4.1 Light Scene 1

