

McArdle Doyle

Chartered Engineers
Architectural Services
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Lighting Assessment

Village Hotel Reading
Caversham Bridge,
Richfield Ave,
Reading
RG1 8BD

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Revision	Date	Prepared By	Approved By
1	20.11.2025	Andrew Brown <i>ABrown</i>	James Fegan <i>James Fegan</i>

SECTION 1: Introduction / Site Details

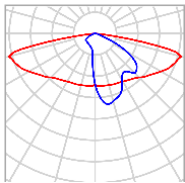
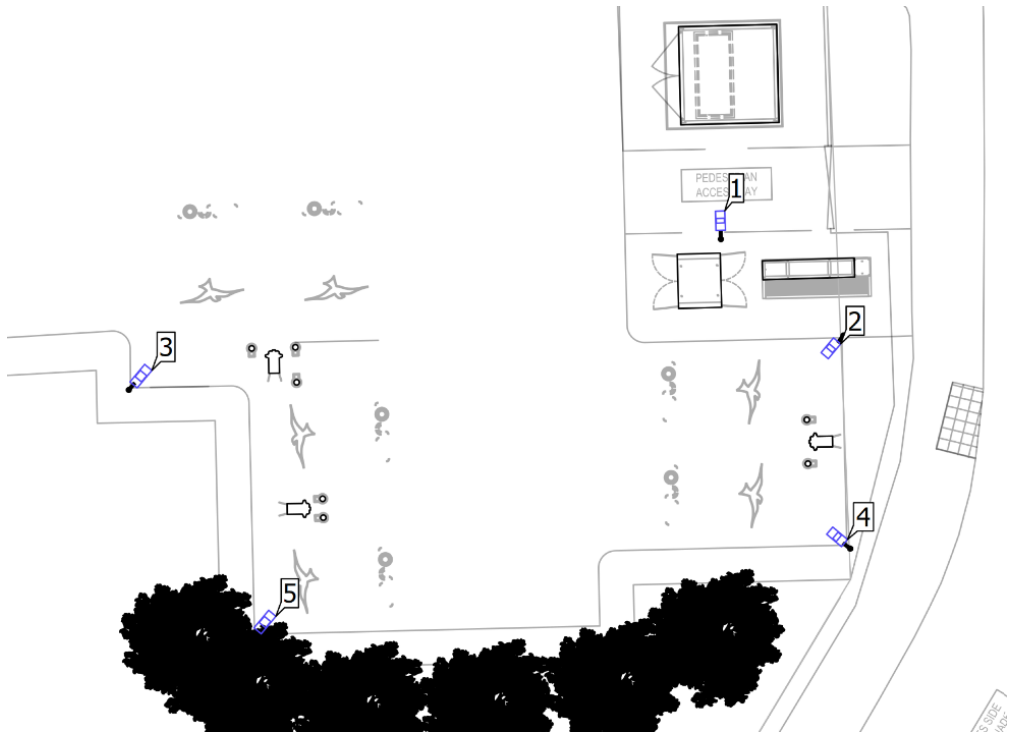
A lighting assessment has been undertaken as part of an Ionity project to add 3No. Alpitronic HYC 1000 EVSP's at Village Hotel Reading, RG1 8BD to facilitate charging for 6 bays. This assessment has found that to ensure a minimum 50 lux level the following equipment is required.

To further reduce light spill on adjacent foliage baffle are to be fitted to luminaires.

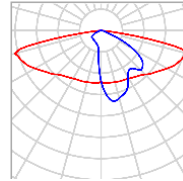
- 1No. 'SB022C40' 22W Starbeam LED Smart including photocell control
- 2No. 'SB022A50S' 50W Starbeam LED Smart including photocell control
- 4No. 'SB20920' side baffles for 50W models
- 2No. 'SB085A40S' 85W Starbeam LED Smart including photocell control
- 4No. 'SB20921' side baffles for 85W Models
- 4No. 'SB20925' rear baffles to fit all models
- 5No. 'FC4' 4m Lighting Columns
- 5No. 'SB15863' Single outreach Arm



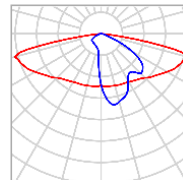
SECTION 2: Luminaire Layout Plan



Manufacturer	Thorlux Lighting	P	24 W
Article No.	SB022C40	ΦLuminaire	3690 lm
Article name	STARBEAM ROADWAY STANDARD 4000K	Fitting	1x 22W LED
Individual luminaires		Mounting height	Luminaire
X	Y		
13.521 m	11.962 m	4.000 m	1

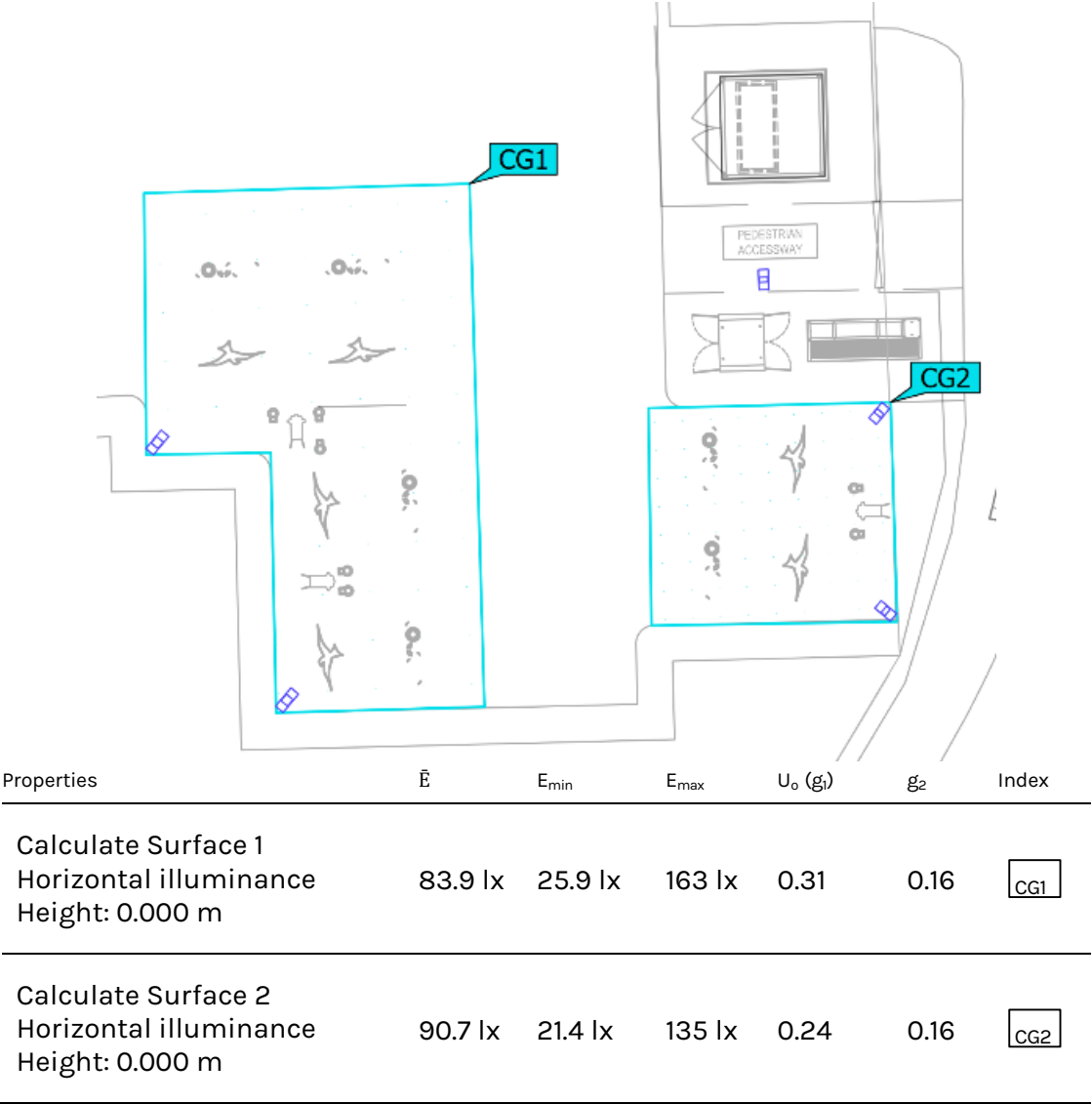


Manufacturer	Thorlux Lighting	P	53 W
Article No.	SB022A50S	ΦLuminaire	8130 lm
Article name	STARBEAM AREA STANDARD 4000K	Fitting	1x 50W LED
Individual luminaires		Mounting height	Luminaire
X	Y		
16.717 m	8.271 m	4.000 m	2
16.897 m	2.815 m	4.000 m	4



Manufacturer	Thorlux Lighting	P	88 W
Article No.	SB085A40S	ΦLuminaire	14105 lm
Article name	STARBEAM AREA STANDARD 4000K	Fitting	1x 85W LED
Individual luminaires		Mounting height	Luminaire
X	Y		
-3.241 m	7.464 m	4.000 m	3
0.346 m	0.350 m	4.000 m	5

SECTION 3: Calculation objects



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

