

PP 16

Planning Conditions: Discharge submission

Planning Permission: 14387/APP2020/4128

& Associated

Listed Building Consent: 14387/APP2020/4126

For Barn type extension at:

The Six Bells
Duck Hill Road
Ruislip
HA4 7TP

Condition 16 Floodlighting

5th January 2022

VERNONSMITH
& associates

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1.0 PRECEPT

1.1 Background

Summary

1.1.1 This report is submitted in support of an application to discharge the conditions attached to the grant of planning permission and an associated listed building consent. The report provides the information required by **CONDITION 16** of the planning permission, requiring full information of the provision for external lighting at the Six Bells

2.0 LIGHTING GENERAL

2.1 Brief: Functional Requirements

2.1.1 The external lighting at the Six Bells will be required to perform a number of functions, dependent upon the season and weather conditions. There will be a need for local low level illumination above entrances and exits and in external structures such as the Cycle and Bin stores. There is also a need for casual use of the Car park through the use of traditional intermediate intensity standard lamp lighting. These will be set at a height to ensure safe access to parked cars. The final level of illumination will require the use of higher intensity flood lighting to further improve safe circulation in the hard landscaped public areas of the site to the north of the proposed extension.

2.2 Brief: Environmental Impact

2.2.1 Overall, it is intended to keep the level of external illumination to a functional minimum whilst still ensuring safe circulation during night time hours. All lamps are to be the minimum lumens necessary to ensure safe light levels and will be LED to reduce energy consumption and heat generation. The design of the external lighting is developed to reduce light spill/pollution from the site into neighbours gardens and homes. The lighting system will be automatically controlled to allow switching off after opening hours, with proximity sensors to maintain safety later in the evening.

3.0 FITTINGS: SPECIFICATION

3.1 Individual light fittings

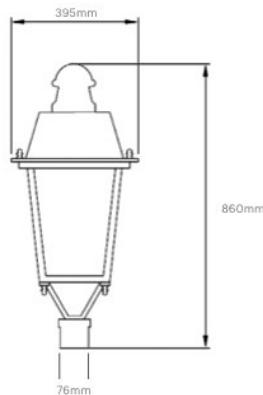
3.1.1 This specification should be read in conjunction with drawing **VSA20/03 – 014** which illustrate the locations and relative heights of the fittings specified below. The fittings will be installed in strict accordance with manufacturer's instructions and with regard to safety and any associated fire regulation requirements. The proposed fittings are as follows:

Fitting A

3.1.1 Light fitting type A is a traditionally designed "lantern" type with a matt black finish that will sit on top of a 4.0 matt black standard post. The lamp (bulb) specification can be seen on Page 4 outlined in Red

**Key Features**

- Luminaire lumens 2,800-6,900
- LED lumens 3,618-9,180
- Power 40W-80W
- Nominal LED efficiency 139lm/W
- 4,000K
- Post-top entry 76mm
- Asymmetric and symmetric optics
- Photocell option
- Dimming option
- Also available in MH, CMH, SON and Cosmo
- RAL 9006

Dimensions**Applications**

- Urban & civic areas
- Parks & plazas
- Pathways & pedestrian areas

**Specification Text**

The luminaire shall be manufactured from die-cast aluminium finished in polyester powder coating. The optical system shall consist of a single piece anodised aluminium reflector (HID). Access to optic, lamp and control gear via four removable screws. Sealed to a minimum IP rating of IP65. The luminaire shall be insulated to Class 1 and be suitable for use with HID and LED light sources. Options available include photo-electric cell.

Accessories		Weight/Windage (max)						
Code	Description	6.7–8.10kg/0.19m ²						
FF/PEC	Photo-electric cell							
KLCKKCV	Column embellishment kit finished in black to match the Villa							
Code	Lamp Wattage	Lamp Type	Lamp Cap	Lamp Style	Lamp Lumens	Optic	CCT (K)	Fuse Cut Out
High Pressure Sodium								
TVI070S	70W	SON	E27	Tubular	6500	Asymmetrical	2000	FC06
TVI100S	100W	SON	E40	Tubular	10500	Asymmetrical	2000	FC06
TVI150S	150W	SON	E40	Tubular	17200	Asymmetrical	2000	FC06
Metal Halide								
TVI070H	70W	MH	E27	Elliptical	4700	Asymmetrical	4000	FC06
TVI100H	100W	MH	E40	Tubular	8100	Asymmetrical	4000	FC06
TVI150H	150W	MH	E40	Tubular	12600	Asymmetrical	4000	FC06
Ceramic Metal Halide								
TVI070CH	70W	CMH	E27	Elliptical	7000	Asymmetrical	3000	FC06
TVI100CH	100W	CMH	E40	Tubular	9500	Asymmetrical	3000	FC06
TVI150CH	150W	CMH	E40	Tubular	14000	Asymmetrical	3000	FC06
Cosmopolis								
TVI045COS	45W	Cosmo	PGZ 12	Tubular	4950	Asymmetrical	2800	FC06
TVI060COS	60W	Cosmo	PGZ 12	Tubular	7200	Asymmetrical	2800	FC06
TVI090COS	90W	Cosmo	PGZ 12	Tubular	10800	Asymmetrical	2800	FC06
LED								
TVI036LED	40W	LED	–	Modular	3480	Symmetrical	4000	FC06
TVI072LED	80W	LED	–	Modular	6960	Symmetrical	4000	FC06

Fitting B

3.1.1

Light fitting type B is low level bulkhead light to illuminate entrances and exits and its design is chosen as a neutral impact upon the character of the listed building adjacent.

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SPECIFICATIONS

FULL DESCRIPTION

SECURE PAYMENT

DELIVERY INFORMATION

RETURNS & REFUNDS

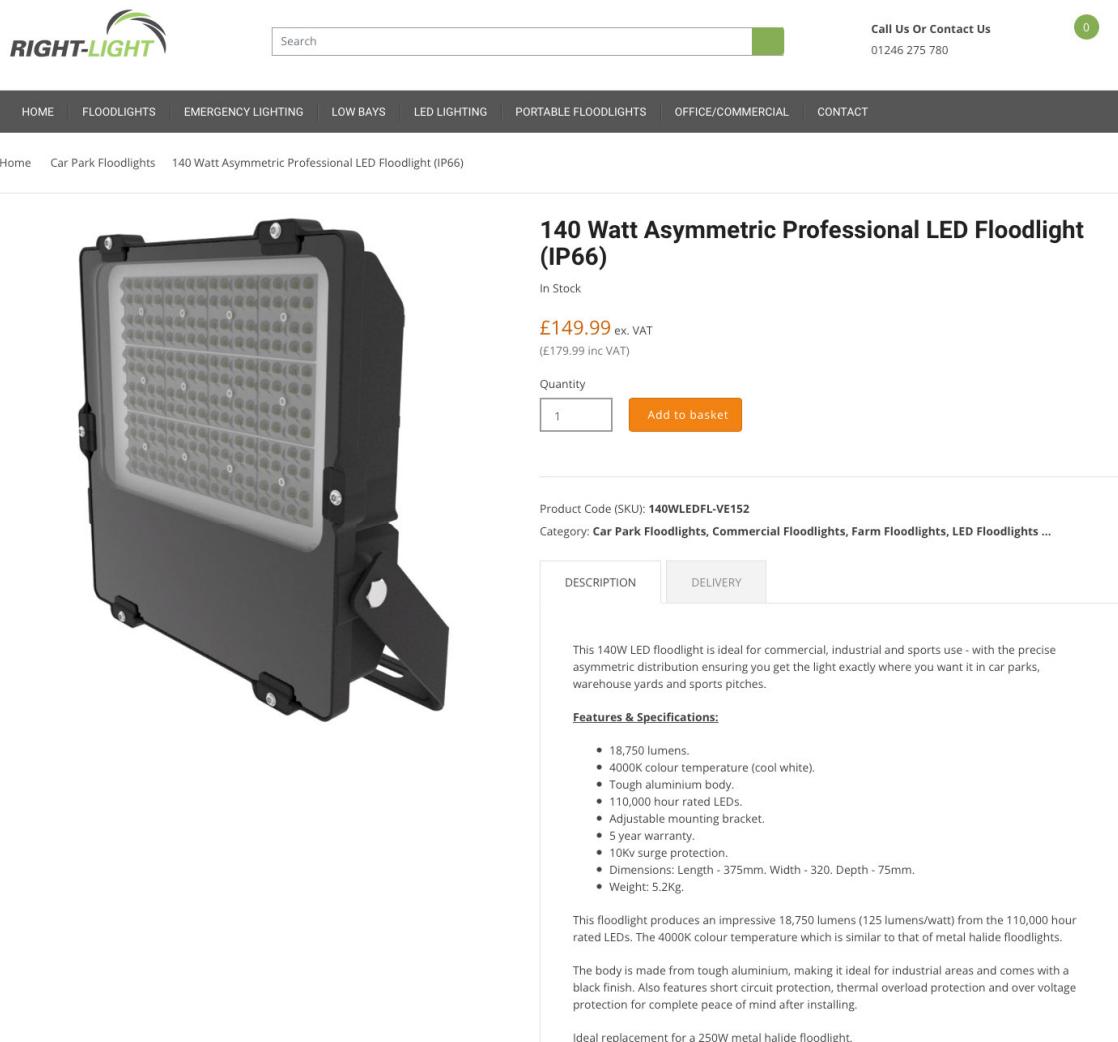
Specifications

Fitting Height (mm)	300
Width (mm)	165
Projection (mm)	200
Wattage (Max)	1 x 15w
Socket	ES - E27
Lamp	GLS LED
Lumen Output	Dependant on bulb choice
Lamp bulb included	No
Product Class	Class 1: Single insulated, requires an earth
IP Rating	IP54
Material	Cast aluminium
Finish	Charcoal
Weight (Kg)	1.52

Fitting c

3.1.1

Light fitting type C is a higher intensity flood light to ensure safer circulation in hard standing areas of the landscape around the proposed new extension. It is a contemporary fitting but will be relatively unobtrusive because it will be fixed just beneath the eaves of the new Barn type structure.



140 Watt Asymmetric Professional LED Floodlight (IP66)

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Product Code (SKU): 140WLEDFL-VE152
Category: Car Park Floodlights, Commercial Floodlights, Farm Floodlights, LED Floodlights ...

DESCRIPTION **DELIVERY**

This 140W LED floodlight is ideal for commercial, industrial and sports use - with the precise asymmetric distribution ensuring you get the light exactly where you want it in car parks, warehouse yards and sports pitches.

Features & Specifications:

- 18,750 lumens.
- 4000K colour temperature (cool white).
- Tough aluminium body.
- 110,000 hour rated LEDs.
- Adjustable mounting bracket.
- 5 year warranty.
- 10kV surge protection.
- Dimensions: Length - 375mm. Width - 320. Depth - 75mm.
- Weight: 5.2Kg.

This floodlight produces an impressive 18,750 lumens (125 lumens/watt) from the 110,000 hour rated LEDs. The 4000K colour temperature which is similar to that of metal halide floodlights.

The body is made from tough aluminium, making it ideal for industrial areas and comes with a black finish. Also features short circuit protection, thermal overload protection and over voltage protection for complete peace of mind after installing.

Ideal replacement for a 250W metal halide floodlight.

4.0 CONCLUSION

4.1.1

The applicant considers that the scheme submitted will allow for a safe level of light throughout the site whilst at the same time reducing light pollution and spill to neighbours. The light fittings have been concentrated onto the car park side of the extension and only low intensity; low level bulkhead lights are used within the south east area behind the extension.