Highlights Floodlighting Ltd

Specialist Floodlighting Installation Contractors

Newbury House, 1 London Road, Luton, Beds. LU1 3UE Tel: 01582 730729 Fax: 01582 726658 Mobile: 07885 672722



Approved Contractor

Website: www.highlights.co.uk

Email: mail@highlights.co.uk

Vat Reg No: 727 747 108

Hampstead School Westbere Road London NW2 3RT

F.A.O. Mr. Ray Pathan

18th September 2009 Estimate No. 3312M

ESTIMATE

RE:- FIVE-A-SIDE AREA FLOODLIGHTING

Further to our recent site visit, we take pleasure in submitting our estimate as follows:-

To supply and erect 4 No. 8 metre high BEI tubular steel static pole planted root lighting columns.

To supply and install 4 No. Philips OptiVision MVP507 1000 watt medium beam asymmetric low glare floodlight luminaries complete with associated control gear and MHN-FC lamps.

The proposed installation will achieve an average maintained horizontal illuminance of 203 lux with a min/ave. uniformity factor of 0.72 and a min/max uniformity factor of 0.65.

The installation will consist of excavating 4 No. column foundation holes; cable laying around the outer perimeter of the proposed playing area and back to the single phase power supply position within the Porta Cabin area; at this point a 63 amp single phase distribution board will be installed complete with all associated MCB's and contactors to allow the switching of the installation to come via key switch operation.

To test and supply commissioning reports on completion of works.

This estimate is fully inclusive of all labour, materials and plant to carry out the proposed installation.

Estimated cost:-

£ 9,844.00 + VAT

The total installed power for the proposed installation is 4.42 kilo watts.



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All works carried out in accordance with NICEIC regulations.

All works carried out in accordance with current Health & Safety regulations.

Insurance details, Health & Safety Policy and Method Statement will be available should we be successful in our quotation.

We trust the enclosed is of interest but please do not hesitate to contact us should you require any further information or assistance.

Assuring you of our best care and attention at all times.

Yours faithfully

M. fuller

Mark Peckham



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TERMS & CONDITIONS

- VAT charged at current standard rate. 1)
- Quotation valid for a period of 60 days from quotation date. 2)
- 3) Prices quoted are subject to variation dependant upon any increases in materials/wage awards which may incur during the interim period prior to order acceptance.
- 4) Quotation is based on the assumption that an adequate single phase mains power supply is available.
- 5) Quotation assumes normal ground soil conditions.
- All goods remain the property of Highlights Floodlighting Ltd. until such time 6) as the account is paid in full.
- 7) All materials are guaranteed for a period of twelve months excluding labour costs.

8) PAYMENT TERMS

- a) / Nett 30 days.
- b) 25% deposit with official order. 25% following delivery of equipment to site Remaining balance to be paid on completion of installation.
- C) 50% deposit with official order. Remaining balance to be paid on completion of works.
- 8) Interest will automatically be charged at 2% above the Bank of England base rate on all late payments

Please detach and return.

I/We accept your estimate number______ dated _____

In the sum of £_____

IWe enclose our official order and agree to your payment terms.

SIGNED _____

DATED

PERFORMANCE CALCULATIONS

Date: Customer: Customer Representative: 17-09-2009 Hampstead School Mr. R. Pathan

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Designer:

Description:

COLUMNS

*4 X 8.0 METRE

TOTAL FENCED AREA 30M x 34M

LUMINAIRES - REQUIRE 230V ELECTRICAL SUPPLY

* 4 X PHILIPS 'OPTIVISION' MVP507 1000W MHN-FC/740 230V

The nominal values shown in this report are the result of precision 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.

Philips Lighting Solutions Philips Centre Guildford Business Park Guildford Surrey

E-Mail: andrew.poplet@philips.com

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1. Project Description

1.1 3 Project Overview



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----- MVP507 MB/60







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2. Summary

2.1 General Information

The overall maintenance factor used for this project is 0.80.

2.2 Obstacle Information

• •••••	-		P	osition		
Obstacle Comer Columns	i ransparency (%) 100		X (m) -15.50 15.50 -15.50 15.50	Y (m) -17.50 -17.50 17.50 17.50	Z (m) 0.00 0.00 0.00 0.00	
2.3 Project Lumin	aires		<u> </u>		<u></u>	
Code Qty I F 4 I	Luminaire Type MVP507 MB <i>1</i> 60		Lamp Type 1 * MHN-FC	C1000₩/230V/740	Power (W) 1105.0	Flux (lm) 1 * 93000
The total installed por	wer: 4.42 (kWatt)					
Number of Luminaire	s Per Arrangement: Luminaire					
Arrangement	Code	F	Power (kWatt)			
Point	4		4.42			
2.4 Calculation R	esults					
(II)luminance Calcula	tions:					
Calculation	Туре	Unit	Ave Min/Av	e Min/Max		
Pitch	Surface Illuminance	lux	203 0.7	2 0.65		

Obtrusive Light Calculations: The upward light ratio (ULR) is 0.00.

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3. Calculation Results

3.1 Pitch: Graphical Table

Grid Calculation

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Pitch at Z = -0.00 m Surface Illuminance (lux)

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3.2 Pitch: Iso Contour

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PERFORMANCE CALCULATIONS

4. Luminaire Details

4.1 Project Luminaires

OPTIVISION MVP507 1xMHN-FC1000W/230V/740 MB/60	Luminous Intensity Diagram (candela/1000 lumen)
	1500
2	1200
	900
	600
Light output ratios DLOR : 0.89	300
TLOR : 0.89	
Lamp flux : 93000 lm Luminaire wattage : 1105.0 W Measurement code : LVM0799800	Horz. $$ -60.0° -40.0° -20.0° 0.0° 20.0° 40.0° 60.0°

5. Installation Data

5.1 Legends

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Project Luminaires:						
Code	Qty	Luminaire Type				
F	4	MVP507 MB/60				

Lamp Type	Flux (Im)
1 * MHN-FC1000W/230V/740	1 * 93000

5.2 Luminaire Positioning and Orientation

Qty and	Position			Aiming Points			Aiming Angles		
Code	X (m)	Y (m)	Z (m)	X (m)	Y (m)	Z (m)	Rot.	Tilt90	TiltO
1*F	-15.00	-17.00	8.00	-1.67	-3.67	0.00	45.0	67.0	0.0
1*F	-15.00	17.00	8.00	-1.67	3.67	0.00	-45.0	67.0	-0.0
1*F	15.00	-17.00	8.00	1.67	-3.67	0.00	135.0	67.0	-0.0
1*F	15.00	17.00	8.00	1.67	3.67	0.00	-135.0	67.0	0.0



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	COLUMN SELECTION TABLE D. T20							COLUMN SELECTION TABLE No. T21					
BS 5	649	DES	GIGNLAN	TERN C).12 m ² 1	11 kg		DES	IGN LAN	TERN 0	.19m ² 1	5 kg	
K	VALUES	1.50 1.80 2.20 2.5D 3.00						1.50	1.80	2.20	2.50	3.0	
PROJEC	TION												
Metres	Code										•		
POST	ТОР	8SS/PT2						8SS PT2					
0.50	50			*									
0.75	75												
1.00	100	8SS/SP2					-	8SS: SP2	2				
1.25	125												
1.50	150										8SH/SP	3	
2.00	200				8SH	/SP3				8SH SP	4	85 5	
······································	8 Me	tre N	omin UMN SEL	al He	TABLE NO	Colui 0. T22	mn E	BIRC	H – S UMN SEL		Arm	D. T2	
	8 Me	tre N	omin UMN SEL	al He	aght I	Colui D. T22	mn E	BIRC	H – S UMN SEL		Arm	D. T23	
BS 5	8 Me 6649 VALUES	COLI DES	OMIN SEL	al He	TABLE NO	Colui p. T22 11 kg	mn E		H — S UMN SEL SIGN LAN	Ingle	Arm	o. T23 15 kg	
BS 5 K PROJEC	8 Me 649 VALUES	tre N COLI DES 1.50	OMIN SEL SIGN LAN 1.80	al He	2.50	Colui p. T22 11 kg 3.00	mn E	DES	H – S UMN SEL SIGN LAN 1.80	ingle ECTION ITERN (2.20	Arm TABLE No 0.19 m ² 2.50	5. T23	
BS 5 K PROJEC Metres	8 Me 649 VALUES TTION Code	tre N COLI DES 1.50	OMIN SEL SIGN LAN 1.80	al He	2.50	Colui p. T22 11 kg 3.00	mn E	DES	H – S UMN SEL SIGN LAN 1.80	ECTION ITERN (2.20	Arm TABLE No 0.19 m ² 2.50	5. T2:	
BS 5 K PROJEC Metres POS1	8 Me 649 VALUES TION Code	tre N COLI DES 1.50	OMIN SEL SIGN LAN 1.80	al He ECTION [®] TERN 0 2.20 8SS/PT2	22	Colui p. T22 11 kg 3.00	mn E	DES	H – S UMN SEL SIGN LAN 1.80	ECTION ITERN (2.20 8SS/PT	Arm TABLE No 0.19 m ² 2.50), T2:	
BS 5 K PROJEC Metres POST 0.50	8 Me 649 VALUES TION Code TTOP 50	tre N COLU DES 1.50	OMIN SEL SIGN LAN 1.80	al He ECTION [*] TERN 0 2.20 BSS/PT2	2.50	Colui p. T22 11 kg 3.00	mn E	DES	H – S UMN SEL SIGN LAN 1.80	ECTION ITERN (2.20 8SS/PT	2.50	D. T2:	
BS 5 K PROJEC Metres POST 0.50 0.75	8 Me 6649 VALUES TION Code TOP 50 75	tre N COLU DES 1.50	OMIN SEL SIGN LAN 1.80	al He ECTION [*] TERN 0 2.20 BSS/PT2	2.50	Colui p. T22 11 kg 3.00	mn E	DES	H – S UMN SEL SIGN LAN 1.80	ECTION ITERN (2.20 8SS/PT	Arm TABLE No 2.50	5. T2:	
BS 5 K PROJEC Metres POST 0.50 0.75 1.00	8 Me 6649 VALUES TION Code TOP 50 75 100	tre N COLU DES 1.50	OMIN SEL SIGN LAN 1.80	al He ECTION [®] TERN 0 2.20 8SS/PT2 8SS/SB2	22	Colui p. T22 11 kg 3.00	mn E	DES	H – S UMN SEL SIGN LAN 1.80 8SS / SB	ingle ECTION ITERN (2.20 8SS/PT; 2	Arm TABLE No 2.50	. T2:	
BS 5 K PROJEC Metres POST 0.50 0.75 1.00 1.25	8 Me 5649 VALUES TION Code TTOP 50 75 100 125 150	tre N COLU DES 1.50	OMIN SEL SIGN LAN 1.80	al He ECTION [®] TERN 0 2.20 8SS/PT2 8SS/SB2	22	Colui p. T22 11 kg 3.00	mn E	DES 1.50	H – S UMN SEL SIGN LAN 1.80 8SS / SB	ECTION ITERN (2.20 8SS/PT; 2	Arm TABLE No D.19 m ² 2.50 2	5. T2:	
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BS 5 K PROJEC Metres POST 0.50 0.75 1.00 1.25 1.50 2.00	8 Me 5649 VALUES TION Code TOP 50 75 100 125 150 200	tre N COLI DES 1.50	OMIN UMN SEL SIGN LAN 1.80	al He ECTION [*] TERN 0 2.20 8SS/PT2 8SS/SB2 8SS/SB2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Colui			H – S UMN SEL SIGN LAN 1.80 8SS / SB 8SS / SB	ingle ECTION ITERN (2.20 8SS/PT) 2 8SS/PT) 2 8SH/SB	Arm TABLE No D.19 m ² 2.50 2 3	D. T23 15 kg 3.	
BS 5 K PROJEC Metres POST 0.50 0.75 1.00 1.25 1.50 2.00	8 Me 5649 VALUES TION Code TOP 50 75 100 125 150 200	tre N COLI DES 1.50	OMIN UMN SEL SIGN LAN 1.80	al He ECTION [*] TERN 0 2.20 8SS/PT2 8SS/SB2 8SS/SB2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Colui	mn E		H – S UMN SEL SIGN LAN 1.80 8SS / SB 8SS / SB	ingle ECTION ITERN (2.20 8SS/PT) 2 8SS/PT) 2 8SH/SB	Arm TABLE No D.19 m ² 2.50 2 3	D. T23	

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Aerial views of Hampstead School, showing surrounding streets.





Learning together Achieving together

TECHNOLOGY COLLEGE

The Planning Officer Town and Country Planning

1st June 2009

Dear Sir.

Re: Proposed installation of floodlights in the school's five-a-side football pitch.

The School is considering the installation of floodlights in the football five-a-side football pitch and would like to enquire about planning permission and to establish if it is necessary for the above procedure.

Reasons for floodlights:

The School would like to utilise the pitch principally during the Autumn and Spring time, but with natural light in the evening at a premium, and hazardous play a possibility, illuminating the pitch would provide a visible and safer environment.

The Floodlight Specification is as follows:

The floodlights would be erected on 4No. metal poles deep-rooted in a concrete base in the four corners of the pitch positioned inwards.

The fittings would be 'Halide Floodlights' with toughened glass fronts, epoxy painted black aluminium with an anodized aluminium reflector, and all fitted with 1no. 400watt lamp each.

Location of Football Pitch:

The pitch is situated in the distant corner of the School site alongside the Menelik Road boundary and sports field and does not cause any problems.

Thank you for your assistance in this matter.

Yours sincerely,

1. Pura

Ray Pathan (Site Manager)

Head: Jacques Szemalikowski MA BSc(Hons) NPQH CPhys MinstP Hampstead School. Westbere Road, London NW2 3RT

T: 020 7794 8133 F: 020 7435 8260 E: enquiries@hampsteadschool.org.uk www.hampsteadschool.org.uk

Camden





















Asymmetrical floodlight designed to ensure minimum glare to players and spectators. Specific use: Tennis & Netball Courts, Hockey areas

Design allows installation of floodlight INLINE with Court surface, ensuring true asymmetric projection of illumination as required.

The housing made of aluminium construction. Fixing clamps and bolts are made in stainless steel. The protective lens glass is heath treated to be as strong as possible.

To get maximum light out of the lamp the

Ordering	nr. De	Description				
321300H 322300H	BS BS	2000B/E40 2000B/T/E40				
Length	Width	Height				
700	620	400 mm				

Windage 0,21msq

reflector is made of pure aluminium with almost no anodizing at all. This gives the floodlight a very long life.

Mounting-brackets made from high grade steel / galvanized.

Lamp change can easily be made from the front of the fitting. The terminal box is mounted on the rear of the floodlight for easy connection.



AB DELTALUX - Kyrkvägen 1 192 72 Sollentuna SWEDEN - info@deltalux.se Telephone: +46 (0)8 6269650 Telefax: +46 (0)8 6269636 - www.deltalux.se