Highlights Floodlighting Ltd

Approved Contractor

Specialist Floodlighting Installation Contractors

Manor Farm Court, Manor Road, Lower Sundon, Beds. LU3 3NZ.

Tel: 01525 874888 Fax: 01525 874448 Mobile: 07885 672722

Website: www.highlights.co.uk Email: mail@highlights.co.uk Vat Reg No: 727 747 108

FLOODLIGHT INSPECTION REPORT

NAME OF CLUB:	**Northwood Football Club**
CLUB ADDRESS:	**Northwood Park Chestnut Avenue Northwood HA6 1HR**
LIGHTING CONTRACTOR:	**Highlights Floodlighting Ltd**
DATE OF INSPECTION:	**3-Nov-22**
TIME AT WHICH READINGS WERE TAKEN:	**6-30 PM**
WEATHER CONDITIONS:	**Fine**
NUMBER OF TOWERS:	**6**
APPROXIMATE HEIGHT OF TOWERS:	**15 metre**
NUMBER OF FITTINGS:	**18**
TYPE OF LIGHT SOURCE:	**Optivision MHN-LA**
MAKERS / INSTALLERS OF SYSTEM:	**Highlights Floodlighting Ltd**
DATE OF INSTALLATION IF KNOWN:	**15-Aug-02**
WATTAGE PER LAMP:	**2000 watt**
NUMBER OF LAMPS NOT WORKING:	**Nil**
AVERAGE LUX VALUE:	**171 Lux**
MAXIMUM LUX VALUE:	**335 Lux**
MINIMUM LUX VALUE:	**85 Lux**
MINIMUM / MAXIMUM UNIFORMITY:	**0.25**
MINIMUM / AVERAGE UNIFORMITY:	**0.50**
LIGHT METER WITH CALIBRATION CERTIFICATE:	**Konica Minolta Meter 'A'**
GENERAL CONDITION OF SYSTEM:	**Good**
COULD THE AVERAGE LUX LEVEL OF THE INSTALLATION BE INCREASED BY FITTING ADDITIONAL LAMPS, TAKING INTO CONSIDERATION THE CABLE SIZES AND EQUIPMENT:	**No**

MARK PECKHAM
COMPANY DIRECTOR

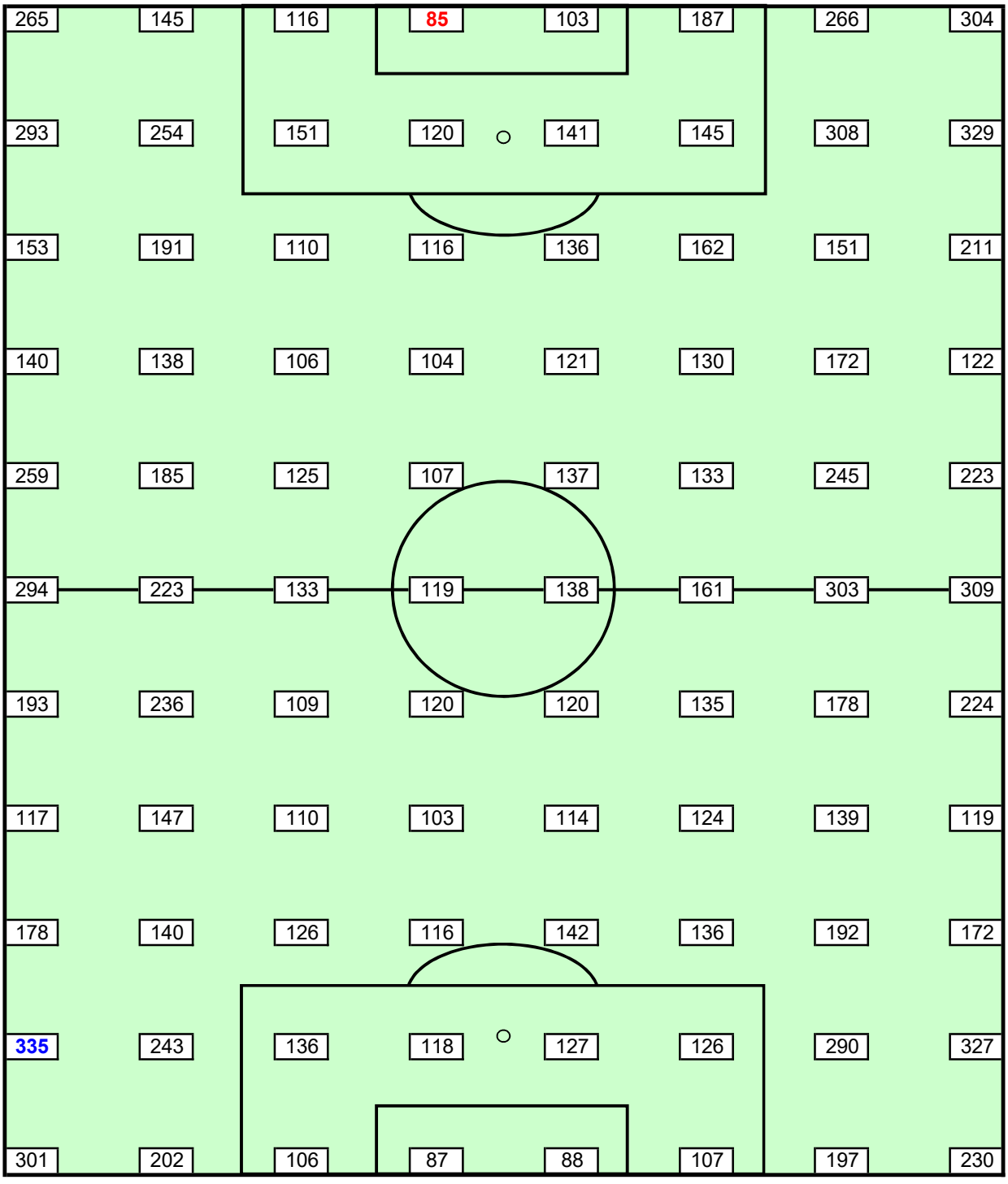
88 POINT ILLUMINATION REPORT FOR FLOODLIGHTING SURVEY

CLUB NAME: Northwood Football Club

TEST DATE: 3-Nov-22
TIME: 6-30 PM

AVERAGE LUX LEVEL: 171 LUX
MAXIMUM LUX LEVEL: 335 LUX
MINIMUM LUX LEVEL: 85 LUX
UNIFORMITY FACTORS
MIN / MAX: 0.25
MIN / AVG: 0.50

SWITCHING POSITION



Highlights Floodlighting Ltd

CERTIFICATE OF CALIBRATION

ISSUED BY OPTICAL TEST and CALIBRATION LTD.

DATE OF ISSUE: 19 April 2022 Certificate Number 138471/ACU

UKAS CALIBRATION

0286

Optical Test and Calibration Ltd.

19-23 Campus Road
Listerhills Science Park
Bradford BD7 1HR
Tel +44(0)1274 393857
Fax +44(0)1274 393336

Email: calibration@otc.co.uk
Web: www.otc.co.uk

Approved Signatory

Name Jenny Harris

Signature QC028

Customer: Highlights Floodlighting Ltd
Unit 3 Manor Farm Court
Manor Road
LOWER SUNDON
LU3 3NZ

Equipment Information

Make: KONICA MINOLTA

Model:	**Description:**	**Serial No:**	**Reference No:**
T10A	LUXMETER	20012750	
T-10A	SENSOR	30014173	

Date of Calibration: 19 April 2022

Calibrated By: J Grabowski

This instrument has been calibrated by direct intercomparison to traceable standards in accordance with approved procedure RAD02 which follows the general principles of BS 667:2005.

The calibration was undertaken with the instrument being operated in accordance with the manufacturer's handbook where appropriate.

The uncertainties shown are consistent with the requirements of M3003 and are inclusive of the uncertainty contribution of the instrument under test. The results, statements and uncertainties relate only to the measured values as displayed by the instrument, and do not carry any implication regarding the stability of the instrument or its performance outside the measured range.

Laboratory Conditions: Temperature 21 °C ± 2 °C
Relative Humidity 50 %rh ± 20 %rh

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k = 2$ unless otherwise shown, providing a coverage probability of approximately 95 %. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

CERTIFICATE OF CALIBRATION

UKAS ACCREDITED CALIBRATION LABORATORY No 0286

Certificate number
138471/ACU

Calibration Undertaken

Illuminance in the range 1 lux to 20000 lux using a tungsten lamp at a colour temperature of 2856 K.
The reference plane of the sensor was taken to be the front face of the diffuser, with a diameter of 25 mm.
The zero offset has not been taken into account.
Results shown on receipt and after adjustment
Manufacturer specification: ± 2% + 1 digit of displayed value (Ref: 14328)

Results as received with no CCF factor set. Results as despatched with the CCF factor set to 1.017

Calibration Results

Reference Meter CAL1070	Unit Under Test						
	Range	As Received			As Despatched		
Applied		Displayed		p_c	Displayed		p_c
0.00 lux	Auto	0.00 lux *	*N/A*	*N/A*	0.00 lux *	*N/A*	*N/A*
10.0 lux	Auto	9.93 lux	*PASS*	*77.1%*	10.11 lux	*PASS*	*70.7%*
50.0 lux	Auto	49.3 lux	*PASS*	*74.9%*	50.2 lux	*PASS*	*91.7%*
150.0 lux	Auto	147.6 lux	*PASS*	*66.1%*	150.1 lux	*PASS*	*93.1%*
500.0 lux	Auto	490 lux	*PASS*	*57.6%*	498 lux	*PASS*	*95%*
1500 lux	Auto	1465 lux	*OOS*	*40.4%*	1491 lux	*PASS*	*89.4%*
5000 lux	Auto	4870 lux	*OOS*	*36.1%*	4950 lux	*PASS*	*84.9%*
15000 lux	Auto	14540 lux	*OOS*	*22.4%*	14800 lux	*PASS*	*70.1%*

Calibrations marked '*' in this certificate are not UKAS accredited and have been included for completeness.
Any measurements indicated as '*OOS*' are outside the specification used.
'p_c' indicates probability of conformance to the specification used.

Calibrated by: J. Grabowski Date: 19 April 2022

UNCERTAINTY OF MEASUREMENT

The estimated uncertainty in the measured value of illuminance from 1 lux to 20000 lux when the instrument is used under the same conditions as when calibrated is ± 1 incremental digit in the least significant figure of the displayed value due to the resolution of the meter plus:

a) ± 3.1 % in the 1.0 lux to 10.0 lux range (k = 2.00)
b) ± 3.1 % in the 10 lux to 20 lux range (k = 2.00)
c) ± 2.2 % in the 20 lux to 200 lux range (k = 2.00)
d) ± 1.9 % in the 200 lux to 1000 lux range (k = 2.00)
e) ± 2.2 % in the 1000 lux to 2000 lux range (k = 2.00)
f) ± 2.3 % in the 2000 lux to 10000 lux range (k = 2.00)
g) ± 2.7 % in the 10000 lux to 20000 lux range (k = 1.99)