Proposed Ménage on land to rear
Elmhirst Farm South Lane
Cawthorne Barnsley S75 4EF

Date Dec 2011
Ref 11.57

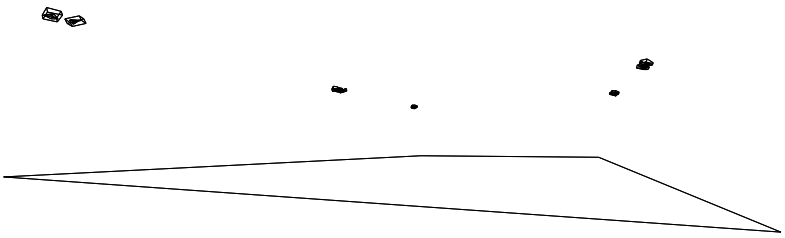
Ménage Lighting Design and Details

MENAGE

Installation Notes: UMNA250H
Customer:
Project Code: TR/8302/12/11/CM
Date: 12/12/2011

Notes:





DESIGNER NAME: TRAC LIGHTING
Address: THIRSK
Tel.-Fax: Tel 01845-526006 Fax +01845-526010

Remarks:

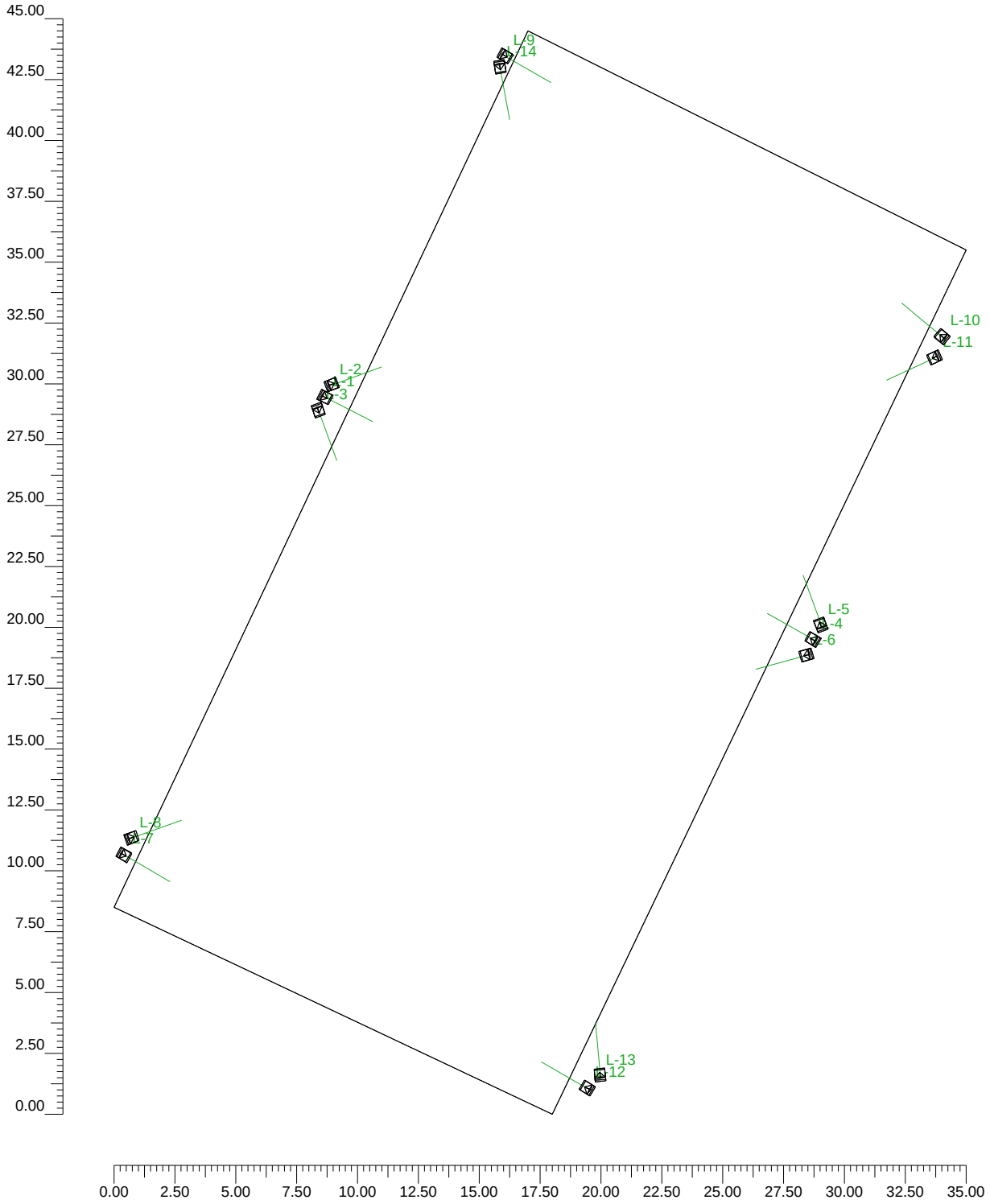
1.1 Area Information

Surface	Dimensions [m]	Angle[°]	Color	Coefficient Reflectance	Average Illum. [lux]	Ave.Luminance [cd/m²]
Ground	35.00x44.50	Plane	RGB=106,53,0	20%	152	9.70

Dimensions of Area Bounding Box [m]:	35.00x44.50x0.00
Calculation Points Grid of Bounding Box [m]:	direction X 1.94 - Y 2.47
Specific Wattage of Working Plane [W/m2]	4.386
Specific Lighting Power of the Working Plane [W/(m2 * 100lux)]	2.877
Total Wattage [kW]:	3.500

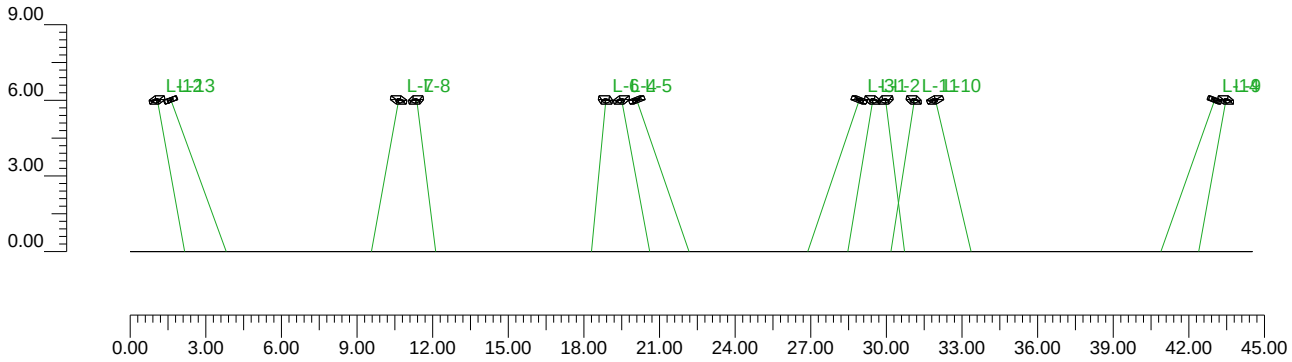
2.1 2D Plane View

Scale 1/250



2.2 Lateral View

Scale 1/300



3.1 Lamps Info

Ref.Lamps	Type	Code	Flux [lm]	Wattage [W]	Color [°K]	N.
LMP-A	33950	HIT250	22000	250	4000	14

3.2 Luminaire Table

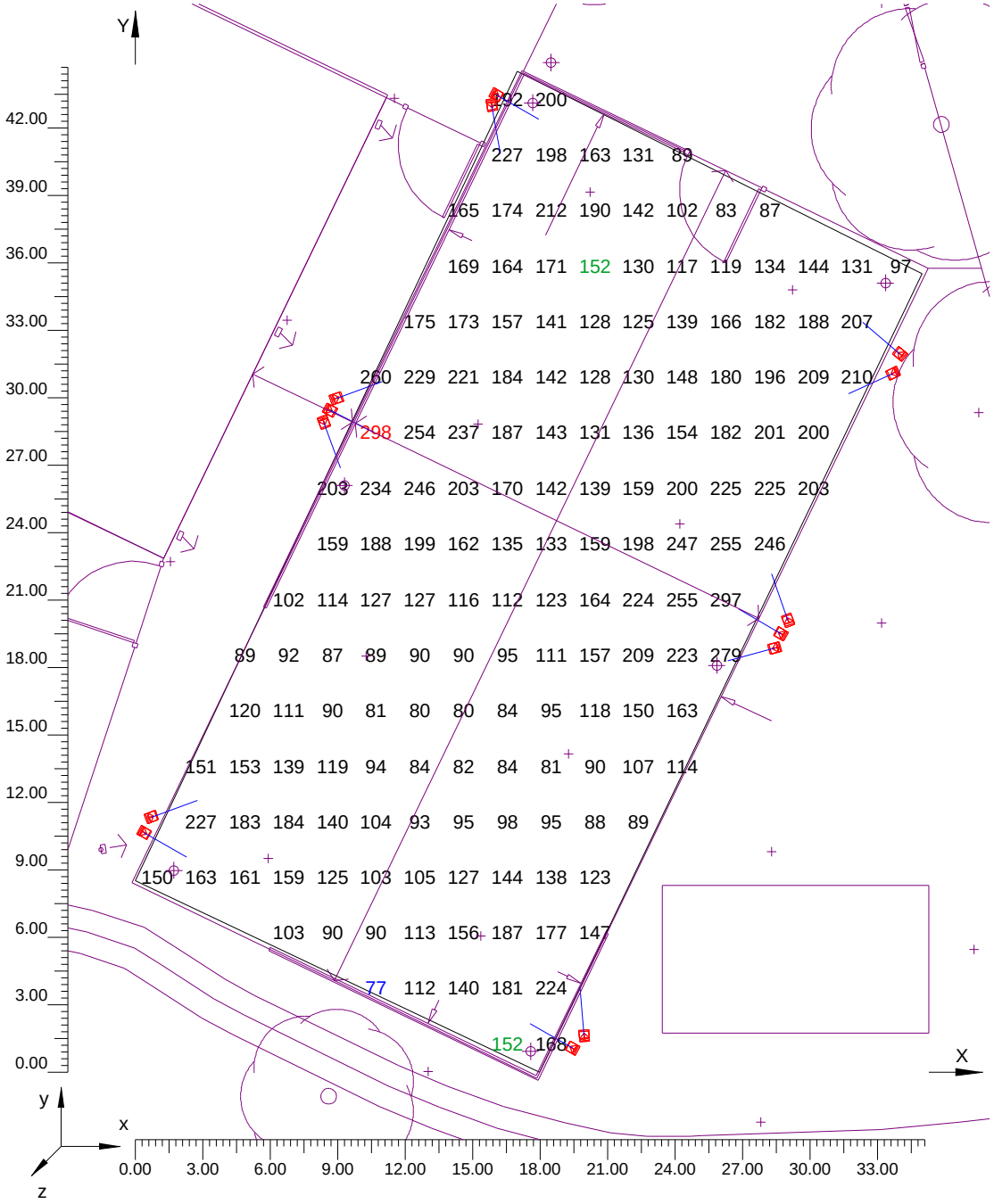
Ref.	Lum.	On	Luminaire Position X[m] Y[m] Z[m]	Luminaire Rotation X[°] Y[°] Z[°]	Luminaire Code	Coeff. Mant.	Lamp Code	Flux [lm]
A	1	X	-150.33;-193.56;6.00	20;0;-117	UMNA250H	0.85	HIT250	1*22000
	2	X	-150.05;-193.04;6.00	20;0;-70		0.85		
	3	X	-150.60;-194.09;6.00	20;0;-160		0.85		
	4	X	-130.28;-203.51;6.00	20;0;60		0.85		
	5	X	-129.96;-202.91;6.00	20;0;20		0.85		
	6	X	-130.55;-204.15;6.00	20;0;105		0.85		
	7	X	-158.59;-212.36;6.00	20;0;-120		0.85		
	8	X	-158.27;-211.66;6.00	20;0;-70		0.85		
	9	X	-142.93;-179.54;6.00	20;0;-120		0.85		
	10	X	-124.98;-191.07;6.00	20;0;50		0.85		
	11	X	-125.29;-191.92;6.00	20;0;115		0.85		
	12	X	-139.55;-221.94;6.00	20;0;60		0.85		
	13	X	-139.03;-221.40;6.00	20;0;5		0.85		
	14	X	-143.14;-179.99;6.00	20;0;-170		0.85		

4.1 Illuminance Values on:Ground

O (x:-159.00 y:-223.00 z:0.00)	Results	Average	Minimum	Maximum	Min/Ave	Min/Max	Ave/Max
DX:1.94 DY:2.47	Horizontal Illuminance (E)	152 lux	77 lux	298 lux	0.51	0.26	0.51

Calculation Type Only Dir.

Scale 1/300

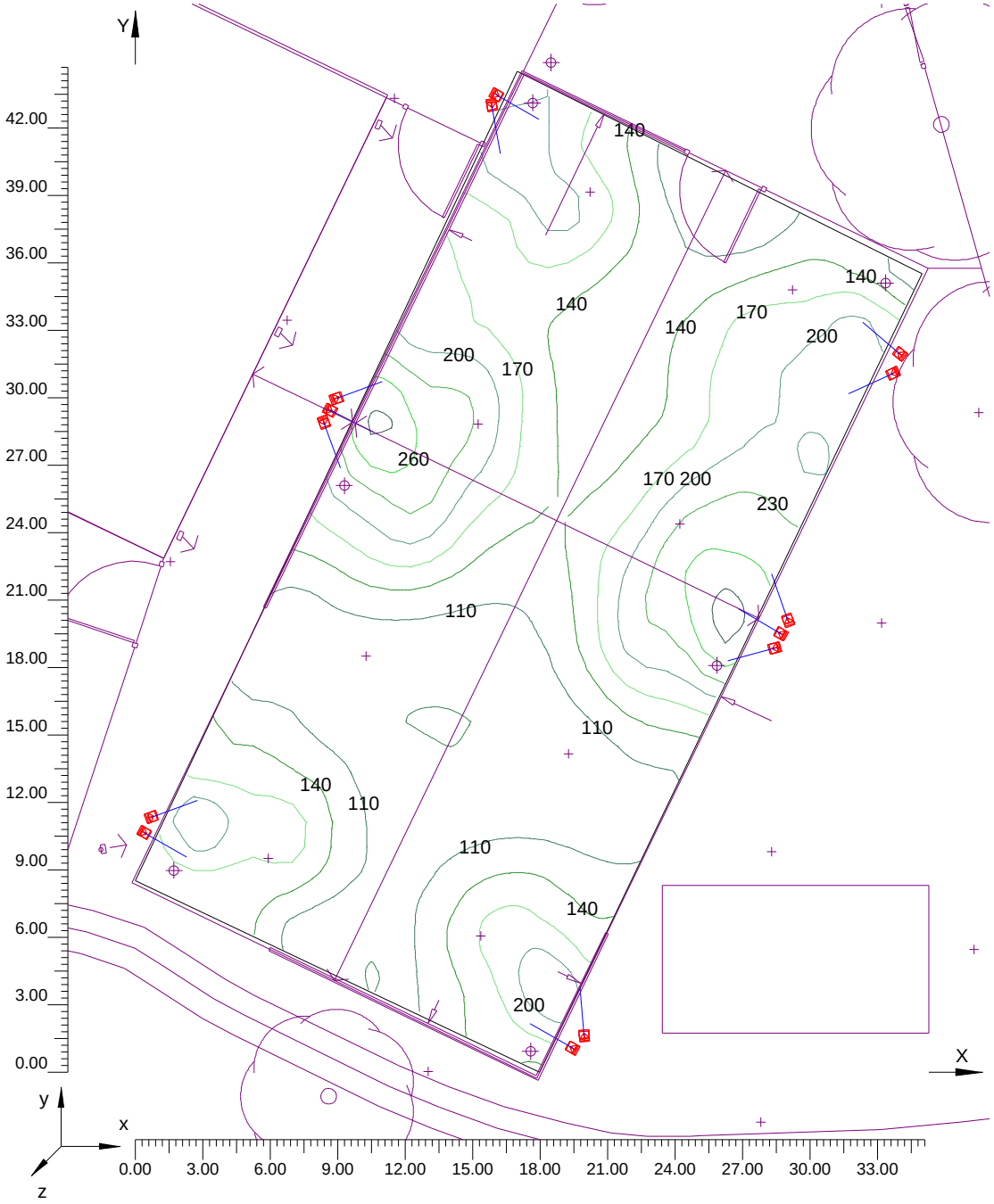


4.2 Isolux Curves on:Ground_1

O (x:-159.00 y:-223.00 z:0.00)	Results	Average	Minimum	Maximum	Min/Ave	Min/Max	Ave/Max
DX:1.94 DY:2.47	Horizontal Illuminance (E)	152 lux	77 lux	298 lux	0.51	0.26	0.51

Calculation Type Only Dir.

Scale 1/300



General Info **1**

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4. Results Table

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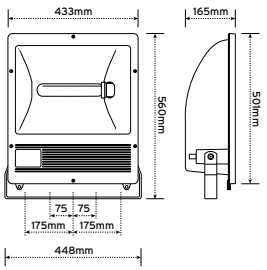
UM



A professional range of large area floodlights aesthetically designed making the best use of modern materials to compliment today's environment. Designed to provide optimum performance in a wide variety of climatic conditions extreme and hostile environments. Available in a comprehensive range of light sources with high performance photometrics including a choice of symmetric, asymmetric and specular narrow beam reflector versions. For dusk to dawn operation, photocell versions are available for all types.



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S.4 - SON-T ⚠ (E40) External ignitor

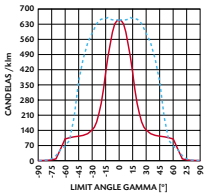
M.2 - MBF/U (E40)

H.5 - Metal Halide (E40)

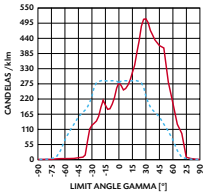
Transverse Axis

Lamp Axis

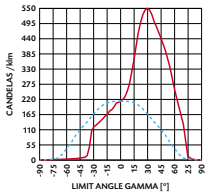
SYMMETRIC REFLECTOR
UM400H 400W E40



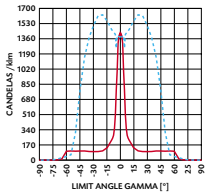
ASYMMETRIC REFLECTOR
UMNA400H 400W E40



ASYMMETRIC REFLECTOR
UMA250S 250W E40



SPECULAR NARROW BEAM
UMN400S 400W E40





TECHNICAL SPECIFICATION

HOUSING & FRAME	Flame retardant thermo-plastic polycarbonate
DIFFUSERS	Standard glass
PHOTOCELL	Photocell available for all types
REFLECTORS	Anodised polished aluminium
CONTROL GEAR	Available with a wide variety of options Metal Halide control gear 250W & 400W is mercury based
SUPPLY	Hinged front cover opening
EQUIPMENT	Corrosion proof and anti-seizure
STANDARDS	Certified to EN 60598 IP67
COLOURS	Black RAL 9011, Silver RAL 7000, White RAL 9003

WINDAGE SCX=0.210M²

ACCESSORIES

Steel wire guard	**UFWG**
Steel screen louvre	**UFAL**
Visor	**UFV**
Spare glass	**UFSG**
Timed Ignitors	**/TI**



DESCRIPTION	LAMP	Wt.(kg)	PART No.	WHITE	SILVER
SYMMETRIC REFLECTOR POLYCARBONATE IP67					
HIGH PRESSURE SODIUM ⚠					
150W - BLACK	S.4	8.30	**UM150S**	/W	/S
250W - BLACK	S.4	9.80	**UM250S**	/W	/S
400W - BLACK	S.4	11.40	**UM400S**		
MERCURY BLENDED FLU.					
250W - BLACK	M.2	8.60	**UM250M**	/W	/S
METAL HALIDE					
250W - BLACK	H.5	9.80	**UM250H**	/W	/S
400W - BLACK	H.5	11.40	**UM400H**	/W	/S
ASYMMETRIC REFLECTOR POLYCARBONATE IP67					
HIGH PRESSURE SODIUM ⚠					
150W - BLACK	S.4	8.30	**UMA150S**	/W	/S
250W - BLACK	S.4	9.80	**UMA250S**	/W	/S
400W - BLACK	S.4	11.40	**UMA400S**	/W	/S
METAL HALIDE					
250W - BLACK	H.5	9.80	**UMA250H**	/W	/S
400W - BLACK	H.5	11.40	**UMA400H**	/W	/S
ASYMMETRIC NARROW REFLECTOR POLYCARBONATE IP67					
HIGH PRESSURE SODIUM ⚠					
150W - BLACK	S.4	8.30	**UMNA150S**	/W	/S
250W - BLACK	S.4	9.80	**UMNA250S**	/W	/S
400W - BLACK	S.4	11.40	**UMNA400S**	/W	/S
METAL HALIDE					
250W - BLACK	H.5	9.80	**UMNA250H**	/W	/S
400W - BLACK	H.5	11.40	**UMNA400H**	/W	/S
SYMMETRIC SPECULAR NARROW BEAM POLYCARBONATE IP67					
HIGH PRESSURE SODIUM ⚠					
150W - BLACK	S.4	8.30	**UMN150S**	/W	/S
250W - BLACK	S.4	9.80	**UMN250S**	/W	/S
400W - BLACK	S.4	11.40	**UMN400S**	/W	/S
METAL HALIDE					
250W - BLACK	H.5	9.80	**UMN250H**	/W	/S
400W - BLACK	H.5	11.40	**UMN400H**	/W	/S
POLYCARBONATE LENS POLYCARBONATE IP67					
HIGH PRESSURE SODIUM ⚠					
150W - BLACK	S.4	8.30	**PUM150S**	/W	/S
250W - BLACK	S.4	9.80	**PUM250S**	/W	/S
METAL HALIDE					
250W * - BLACK	H.5	9.80	**PUM250H**	/W	/S

PC PHOTOCELL OPTIONS ARE AVAILABLE ON ALL TYPES, TO ORDER SUFFIX CODE WITH /PC. e.g. **UM150S/PC**

* **PUM250H** This unit is for down lighting only

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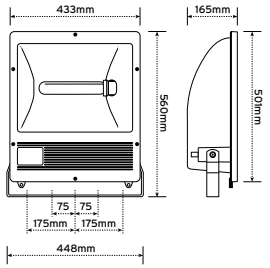


In addition to standard colours this floodlight is available in a wide range of vibrant solid and translucent colour options including: yellow, green, blue, red, sandstone and standard versions silver and white. Match a corporate image or colour co-ordinate any large lighting project. Applications include interior or exterior schemes including car showrooms and forecourts, theme parks, hotels, gardens, large retail complexes, offices and facade lighting. Colours are generated using top quality pure polycarbonate, guaranteed to stay crisp and bright without colour fade. Available with built-in photocells.





PUM



S.4 - SON-T ⚠ (E40) External ignitor

M.2 - MBF/U (E40)

H.5 - Metal Halide (E40)



SOLID & TRANSLUCENT COLOURS











DESCRIPTION	LAMP	Wt.(kg)	PART No.	SAND	YELLOW	RED	GREEN	BLUE	BLUE TRANSLUCENT	CLEAR TRANSLUCENT
SYMMETRIC REFLECTOR POLYCARBONATE IP67										
HIGH PRESSURE SODIUM ⚠										
150W	S.4	8.30	**UM150S**	/SI	/Y	/R	/G	/B	/BT	/CT
250W	S.4	9.80	**UM250S**	/SI	/Y	/R	/G	/B	/BT	/CT
400W	S.4	11.40	**UM400S**	/SI	/Y	/R	/G	/B	/BT	/CT
MERCURY BLENDED FLU.										
250W	M.2	8.60	**UM250M**	/SI	/Y	/R	/G	/B	/BT	/CT
METAL HALIDE										
250W	H.5	9.80	**UM250H**	/SI	/Y	/R	/G	/B	/BT	/CT
400W	H.5	11.40	**UM400H**	/SI	/Y	/R	/G	/B	/BT	/CT
ASYMMETRIC REFLECTOR POLYCARBONATE IP67										
HIGH PRESSURE SODIUM ⚠										
150W	S.4	8.30	**UMA150S**	/SI	/Y	/R	/G	/B	/BT	/CT
250W	S.4	9.80	**UMA250S**	/SI	/Y	/R	/G	/B	/BT	/CT
400W	S.4	11.40	**UMA400S**	/SI	/Y	/R	/G	/B	/BT	/CT
METAL HALIDE										
250W	H.5	9.80	**UMA250H**	/SI	/Y	/R	/G	/B	/BT	/CT
400W	H.5	11.40	**UMA400H**	/SI	/Y	/R	/G	/B	/BT	/CT
ASYMMETRIC NARROW REFLECTOR POLYCARBONATE IP67										
HIGH PRESSURE SODIUM ⚠										
150W	S.4	8.30	**UMNA150S**	/SI	/Y	/R	/G	/B	/BT	/CT
250W	S.4	9.80	**UMNA250S**	/SI	/Y	/R	/G	/B	/BT	/CT
400W	S.4	11.40	**UMNA400S**	/SI	/Y	/R	/G	/B	/BT	/CT
METAL HALIDE										
250W	H.5	9.80	**UMNA250H**	/SI	/Y	/R	/G	/B	/BT	/CT
400W	H.5	11.40	**UMNA400H**	/SI	/Y	/R	/G	/B	/BT	/CT
SYMMETRIC SPECULAR NARROW BEAM POLYCARBONATE IP67										
HIGH PRESSURE SODIUM ⚠										
150W	S.4	8.30	**UMN150S**	/SI	/Y	/R	/G	/B	/BT	/CT
250W	S.4	9.80	**UMN250S**	/SI	/Y	/R	/G	/B	/BT	/CT
400W	S.4	11.40	**UMN400S**	/SI	/Y	/R	/G	/B	/BT	/CT
METAL HALIDE										
250W	H.5	9.80	**UMN250H**	/SI	/Y	/R	/G	/B	/BT	/CT
400W	H.5	11.40	**UMN400H**	/SI	/Y	/R	/G	/B	/BT	/CT
POLYCARBONATE LENS POLYCARBONATE IP67										
HIGH PRESSURE SODIUM ⚠										
150W	S.4	8.30	**PUM150S**	/SI	/Y	/R	/G	/B	/BT	/CT
250W	S.4	9.80	**PUM250S**	/SI	/Y	/R	/G	/B	/BT	/CT
METAL HALIDE										
250W *	H.5	9.80	**PUM250H**	/SI	/Y	/R	/G	/B	/BT	/CT

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* **PUM250H** This unit is for down lighting only