

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

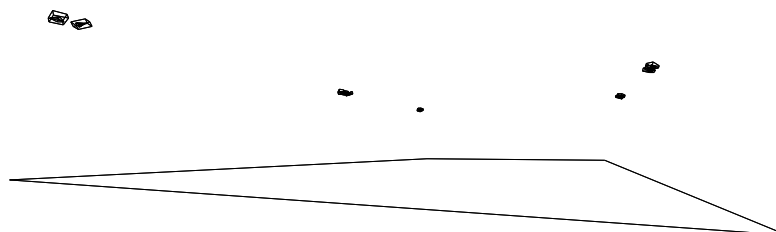
Date Dec 2011
Ref 11.57

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:

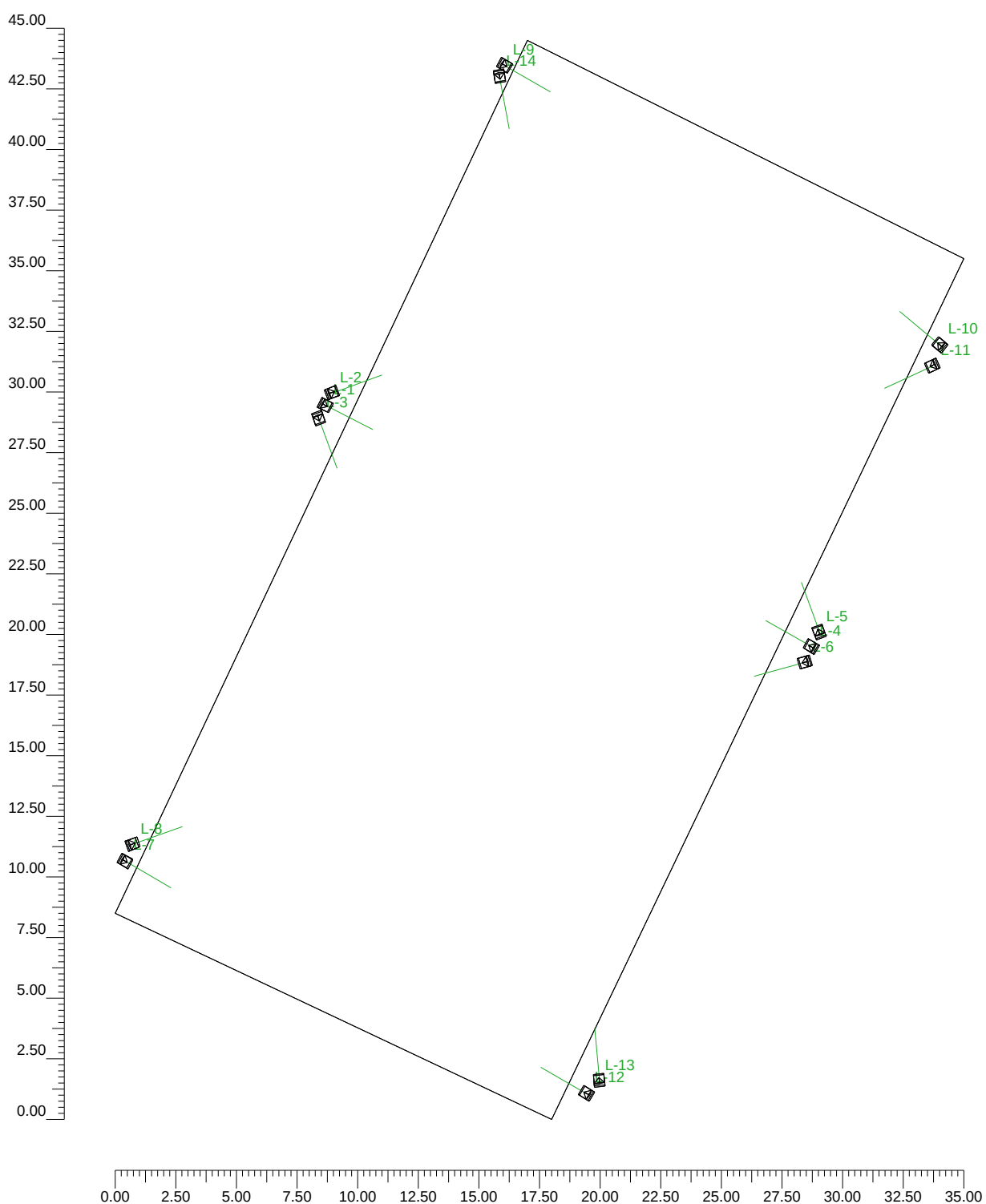
1.1 Area Information

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

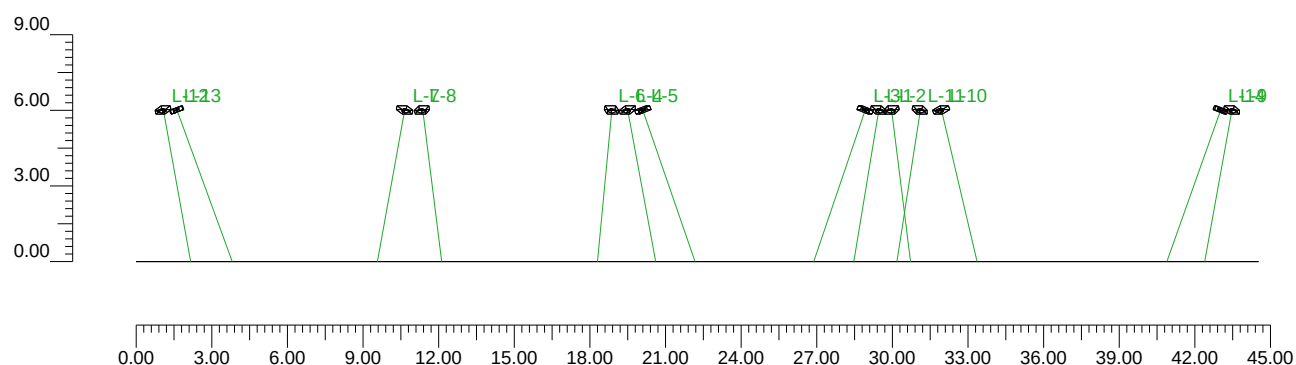
2.1 2D Plane View

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		

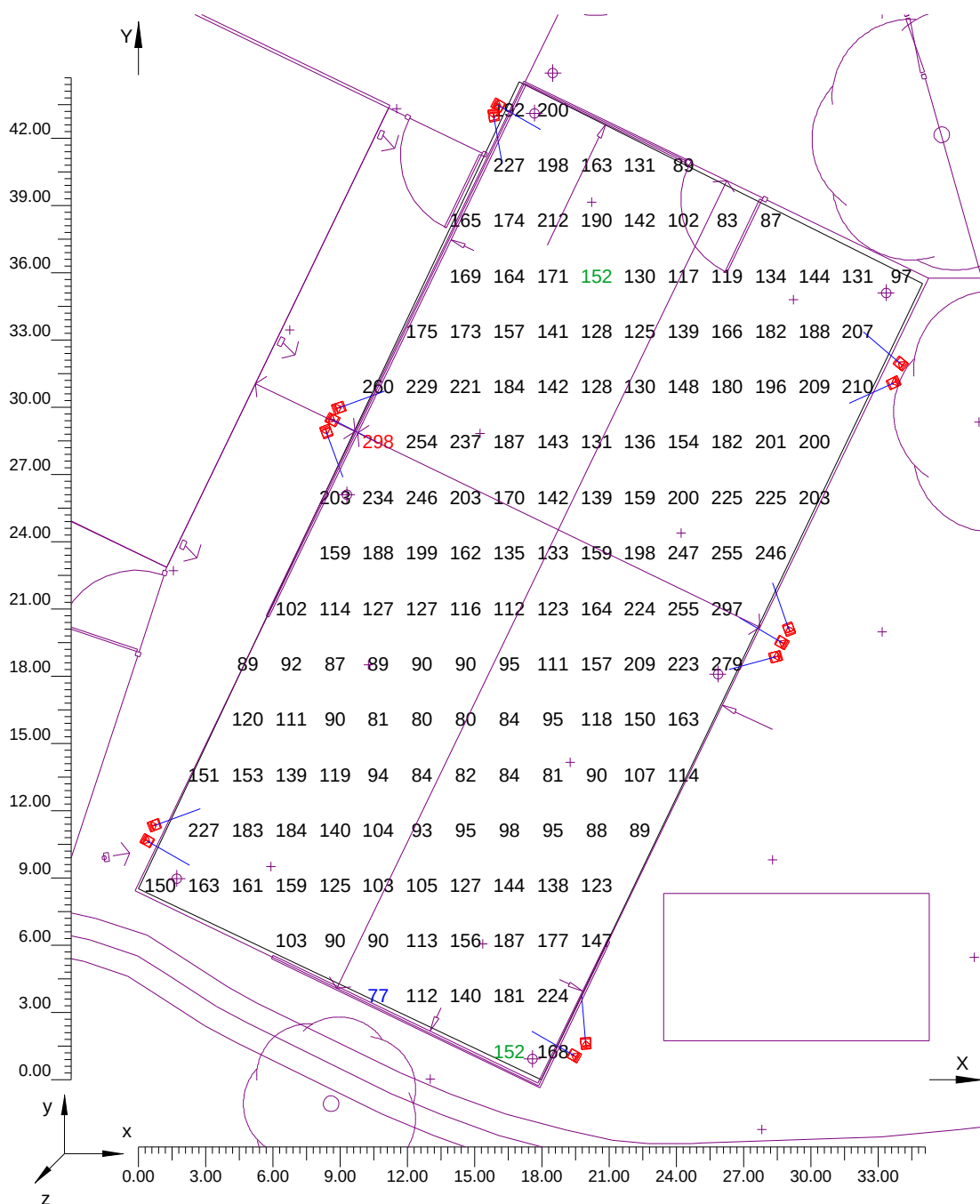
4.1 Illuminance Values on:Ground

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



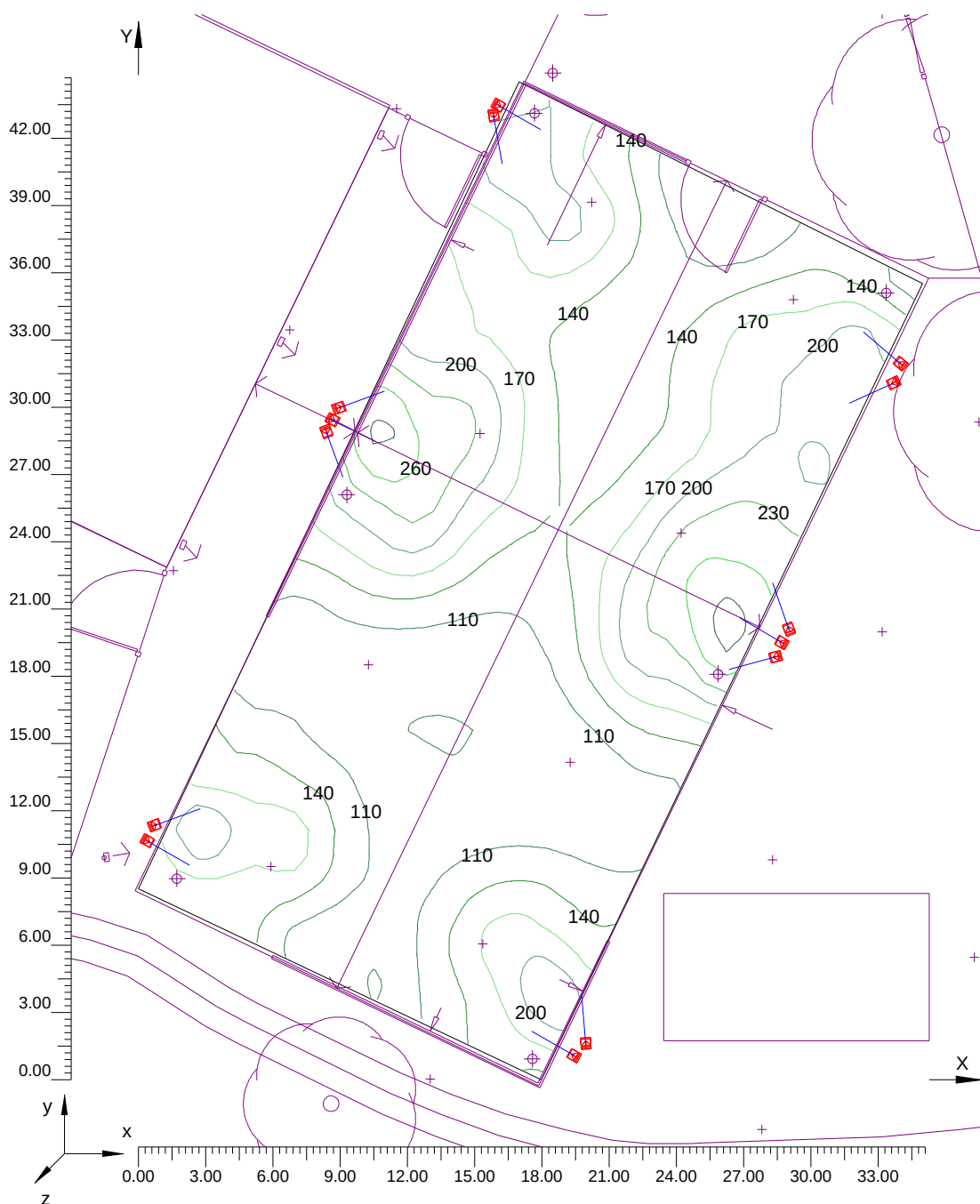
4.2 Isolux Curves on:Ground_1

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
 1. Project Data	
1.1 Area Information	2
 2. Project Views	
2.1 2D Plane View	3
2.2 Lateral View	4
 3. Luminaire Data	
3.1 Lamps Info	5
3.2 Luminaire Table	5
 4. Results Table	
4.1 Illuminance Values on:Ground	6
4.2 Isolux Curves on:Ground_1	7

UM

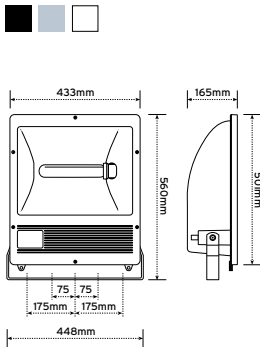


A professional range of large area floodlights aesthetically designed making the best use of modern materials to compliment today's environment. Designed to provide optimum performance in a wide variety of climatic conditions extreme and hostile environments. Available in a comprehensive range of light 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.





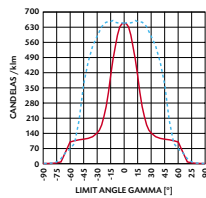
PUM



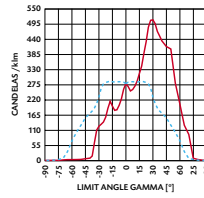
- S.4 - SON-T (E40) External ignitor
 M.2 - MBF/U (E40)
 H.5 - Metal Halide (E40)

Transverse Axis
Lamp Axis

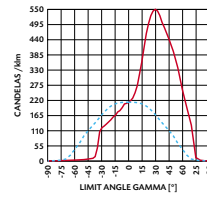
SYMMETRIC REFLECTOR
UM400H 400W E40



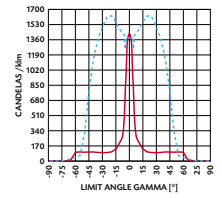
ASYMMETRIC REFLECTOR
UMNA400H 400W E40



ASYMMETRIC REFLECTOR
UMA250S 250W E40



SPECULAR NARROW BEAM
UMN400S 400W E40



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	/W	/S

MERCURY BLENDED FLU.

250W - BLACK	M.2	8.60	UM250M	/W	/S
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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
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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
 Steel screen louver
 Visor
 Spare glass
 Timed Ignitors

UFWG
 UFAL
 UFV
 UFSG
 /TI



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

UM

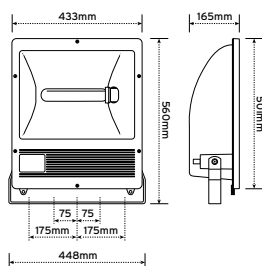


In addition to standard colours this floodlight is available in a wide range of vibrant solid and translucent colour options including: yellow, green, blue, red, sandstone and standard versions silver and white. Match a corporate image or colour co-ordinate any large lighting project. Applications include 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
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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
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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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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