

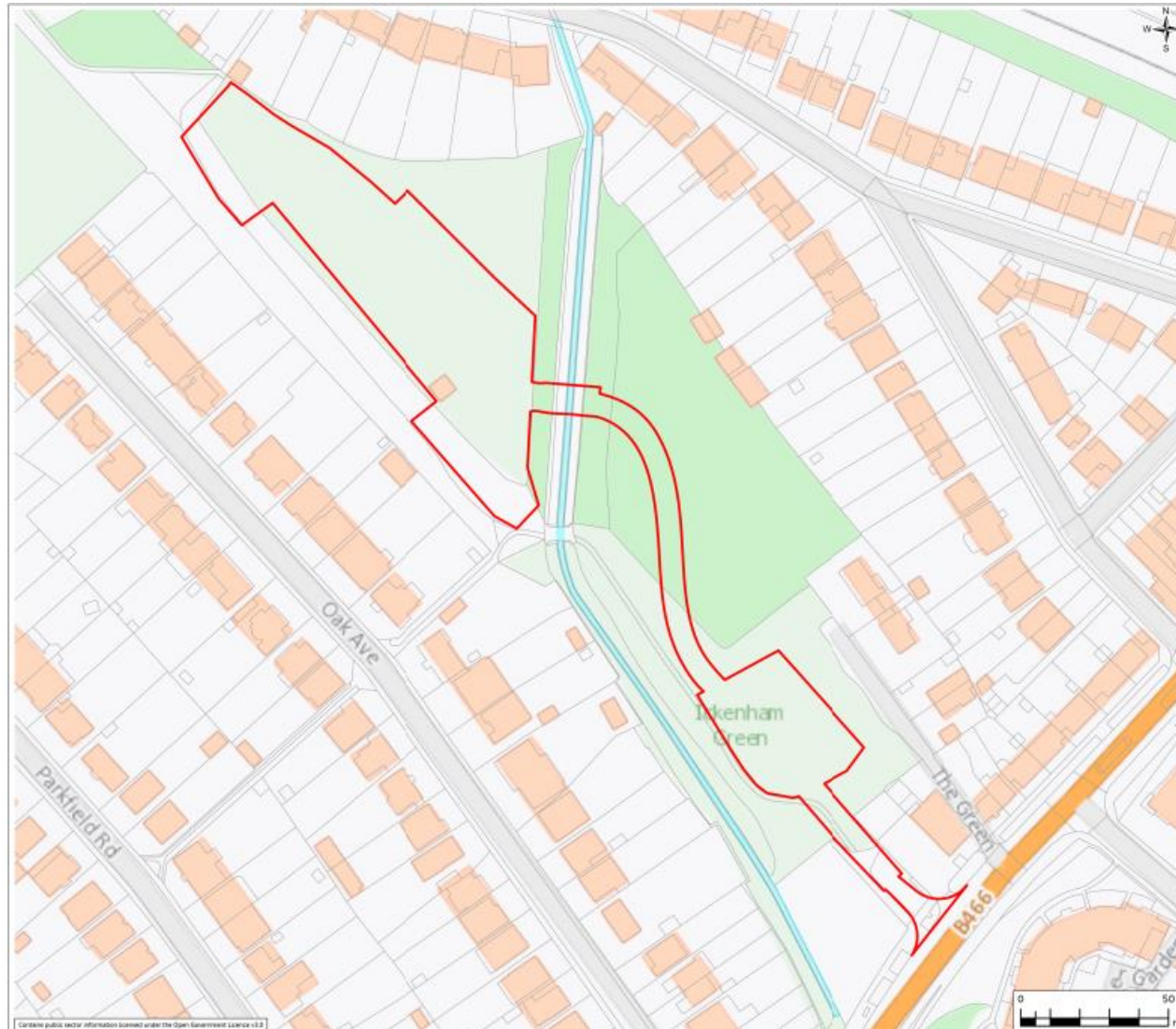
GREENWAY

LIGHTING PLAN SOUTHERN COMPOUND

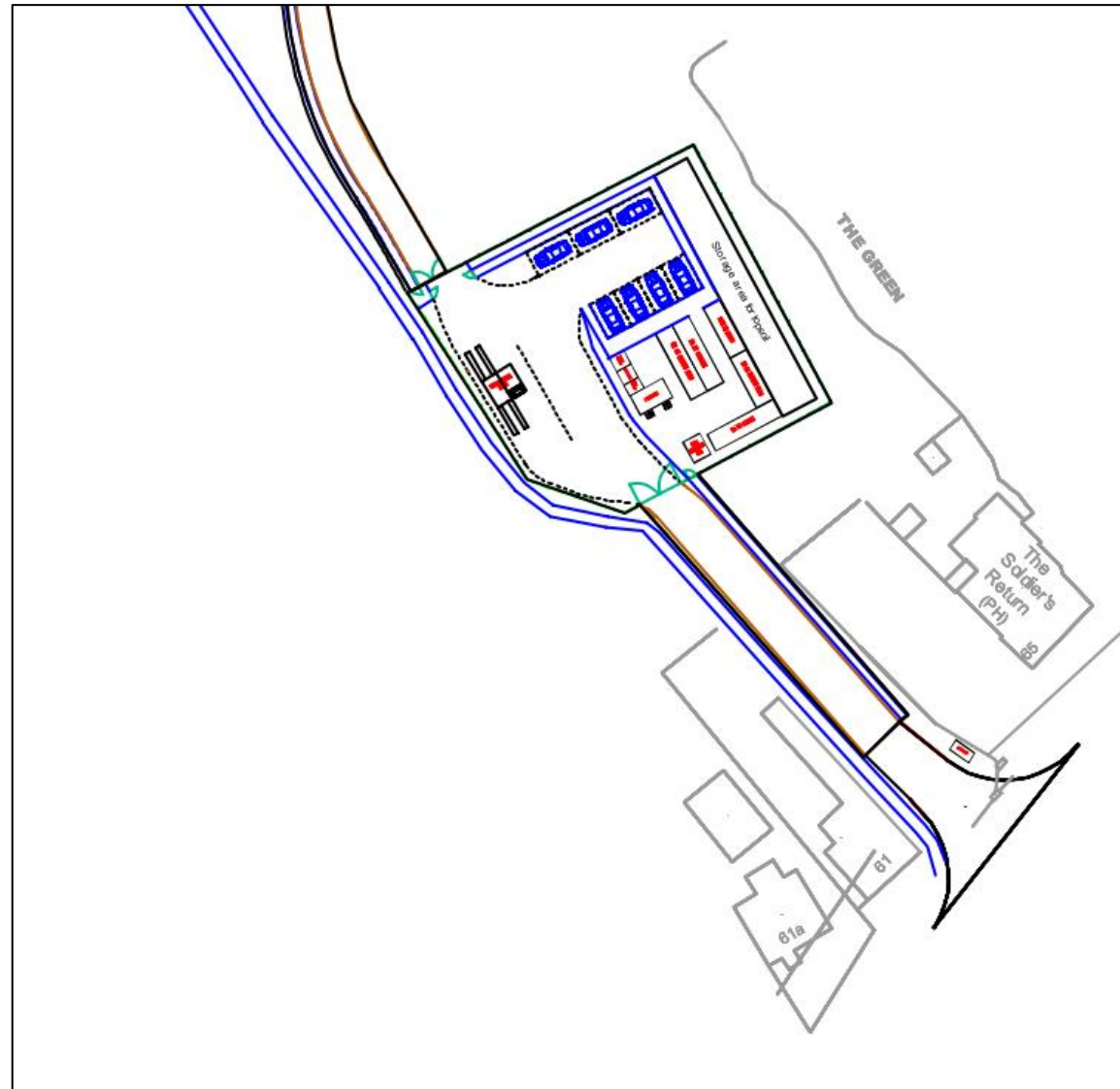


Rev	Date	Author	Checked by	Reason for issue
01	28/10/2021	Dan Strong	Tim O Donoghue	For Review
02	03/11/2021	Dan Strong	Tim O Donoghue	Updated after comments

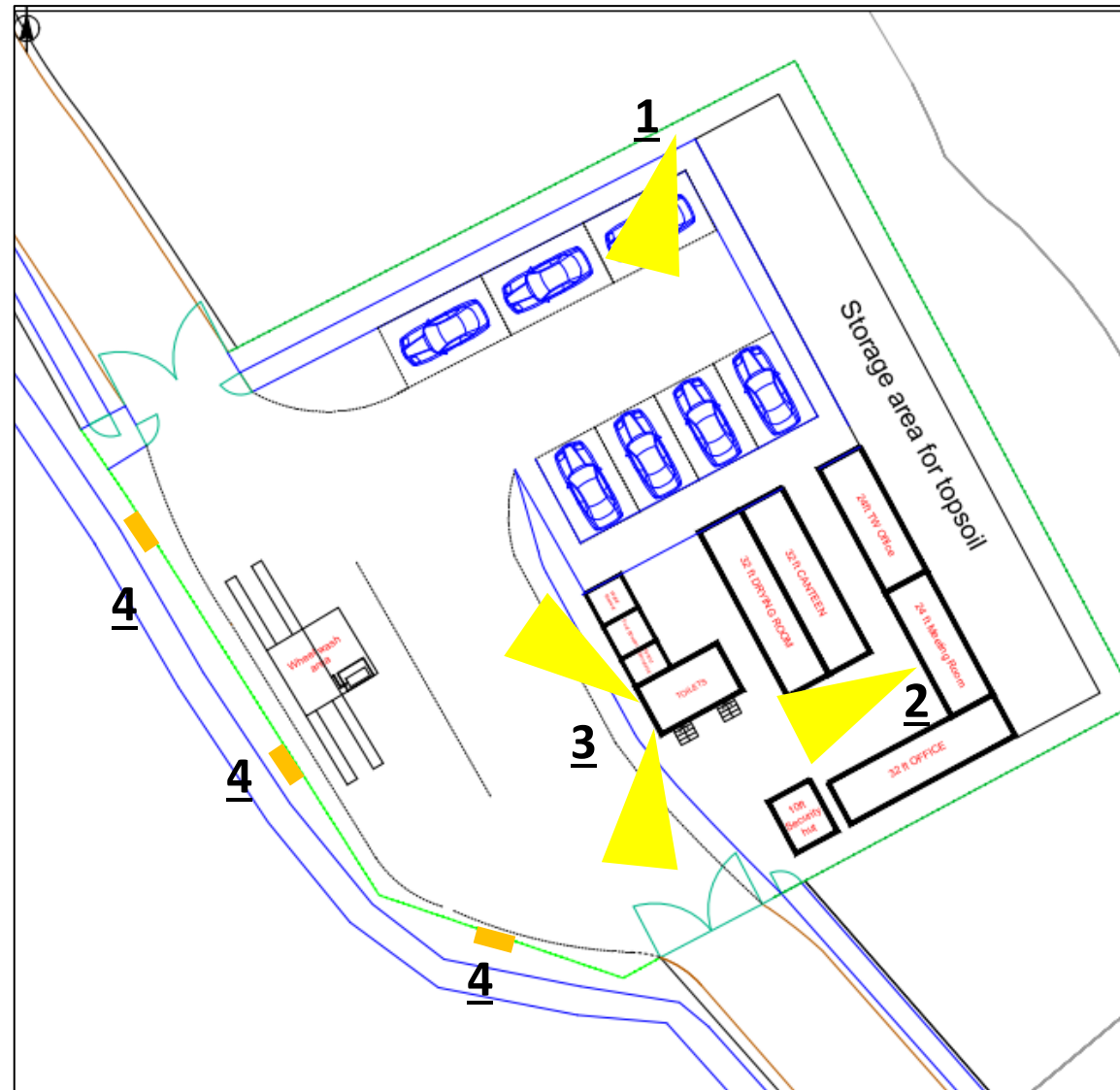
Overview of Southern Compound Works Area



Overview of Southern Welfare Area

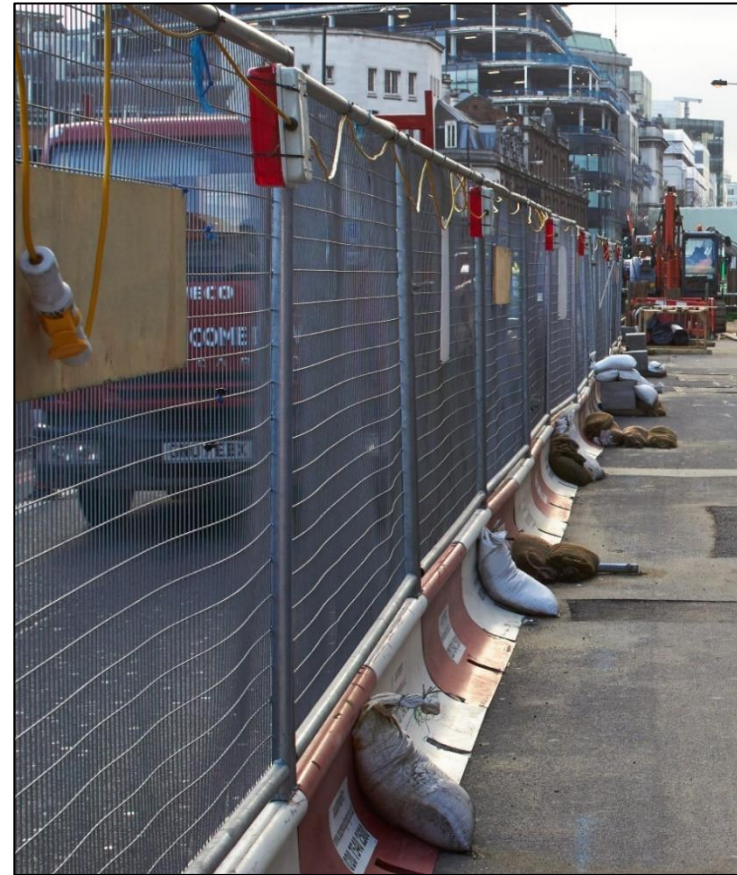
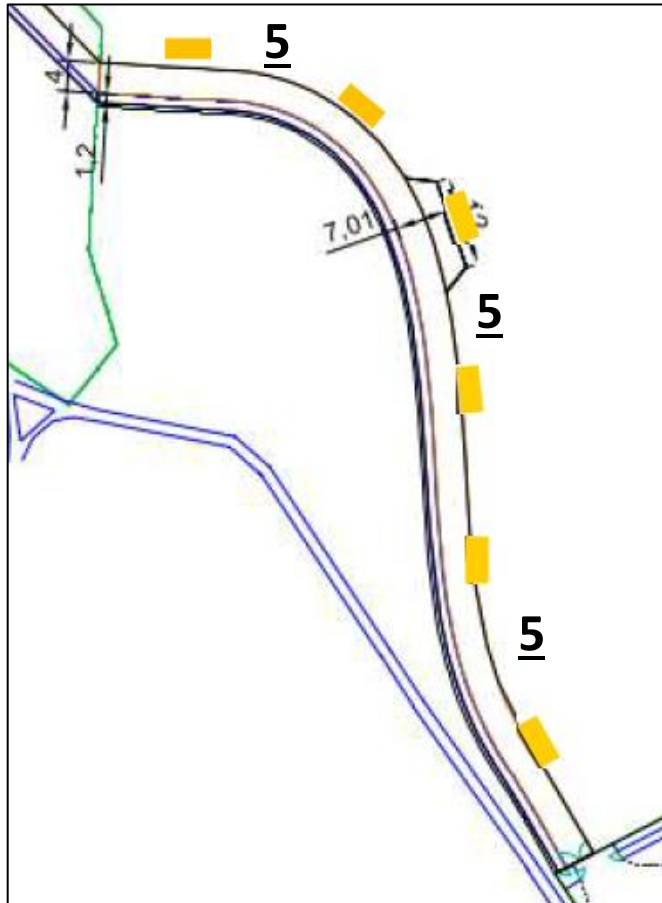


Proposed Location of Floodlights within the Welfare Area and Spot Lights along Western External side of site Hoarding



Light	Location	Light Type	Height	Direction of Light Sources
1	Light we be positioned to the inside of the compound Hoarding	Flood Light	2.2 metres high (Less than the 2.4 metre hoarding)	Light point in a southerly direction across the Barhale Compound Area
2	Light we be positioned to the Barhale Welfare/Office unit	Flood Light	2.2 metres high	Light point in a south-westerly direction across the Barhale Compound Area
3	Light we be positioned to the Barhale Welfare/Office unit	Flood Light	2.2 metres high	Light point in a southerly direction towards the Barhale compound access gate
				Light point in a easterly direction across the Barhale Compound Area
4	Light Positioned on the eastern external face of the compound Hoarding (along the pedestrian pathway)	Bulkhead lights	2.2 metres high	Light illuminating the pedestrian footpath, so there is no “dark” area’s as a result of the Barhale Compound Hoarding

Proposed Location of Spot Lights along Access Road



Spot Lights on Fencing Similar to Above image from previous site

Light	Location	Light Type	Height	Direction of Light Sources
5	Light Positioned on the Internal of the Barhale Heras Fencing lining the Access Road between Welfare Compound and Allotments	Bulkhead lights	2.2 metres high	Light illuminating the Barhale pedestrian footpath between welfare compound and Allotment working area.

Proposed Location of Floodlights and Mobile Tower Light within the Allotments Working Area



Light	Location	Light Type	Height	Direction of Light Sources
6	Light we be positioned to the inside of the compound Hoarding	Flood Light	2.2 metres high (Less than the 2.4 metre hoarding)	Light point in an easterly direction across the Barhale working area
7	Light we be positioned to the inside of the compound Hoarding	Flood Light	2.2 metres high (Less than the 2.4 metre hoarding)	Light point in a south-easterly direction across the Barhale working area
8	Light we be positioned to the inside of the compound Hoarding	Flood Light	2.2 metres high (Less than the 2.4 metre hoarding)	Light point in an north-westerly direction across the Barhale working area
9	Light we be positioned beside the Barhale Manhole 3 location	Mobile Tower Light	Adjustable Height	Mobile Tower Light will be positioned beside the Barhale Manhole 3 location to illuminate the area around the manhole, where the intensive/detailed works will be undertaken
10	Light we be positioned beside the Barhale Manhole 4 location	Mobile Tower Light	Adjustable Height	Mobile Tower Light will be positioned beside the Barhale Manhole 4 location to illuminate the area around the manhole, where the intensive/detailed works will be undertaken

Data Sheet of Floodlights



PRODUCT DATASHEET FL PFM 200 W 4000 K SYM 100 BK

FLOODLIGHT 200 W | Versatile floodlight with up to 25000 lm light output



Areas of application

- Replacement for floodlights with halogen lamps
- Outdoor use (IP65)
- Industry
- Public areas
- Construction areas
- Building facades

Product benefits

- Bright, robust and durable
- Safe and very uniform illumination, due to frosted and tempered glass diffuser
- No upper light output ratio (ULOR 0%) when mounted at 0° tilt
- Energy savings of up to 90 % compared to halogen lamp floodlights
- 5 years guarantee

Product features

- Reflector-based, symmetric light distribution with 100° x 100° beam angle
- Integrated wide voltage driver, suitable for 100 - 277 V_{AC}
- Surge protection: up to 6 kV (L/N-PE), 4 kV (L-N)
- Mounting bracket with 30° angle and wide rotation area
- Breather membrane to optimize air exchange, without compromising IP protection
- Pre-installed, flexible 1 m cable (H05RN-F), wrapped 3 x 1.0 mm² single wires

TECHNICAL DATA

Electrical data

Nominal wattage	200.00 W
Nominal voltage	100...277 V
Mains frequency	50...60 Hz
Nominal current	1000 mA
Inrush current	80 A
Inrush current time T_{h50}	1000 μ s
Max. no. of lum. on circuit break. B16 A	3
Max. no. of lum. on circuit break. C10 A	5
Max. no. of lum. on circuit break. C16 A	8
Power factor λ	> 0.90
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Integrated LED driver

Photometrical data

Luminous flux	25000 lm
Luminous efficacy	125 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	≥ 80
Standard deviation of color matching	≤ 5 sdc _m
Luminous intensity	-
Low flicker	Yes
Flickering metric (Pst LM)	-
Stroboscope effect metric (SVM)	-
Photobiological safety group acc. to EN62778	RG1
Photobiological safety group acc. to EN62471	RG1
Beam angle	100 ° x 100 °

Dimensions & Weight

Length	454.00 mm
Width	354.00 mm
Height	62.00 mm
Product weight	6000.00 g
Cable length	1000 mm

Materials & Colors

Product color	Black
Housing color	Black
Body material	Aluminum
Light emitting surface material	Glass
Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	-30...+50 °C
Temperature range at storage	-40...+70 °C
Type of connection	Cable, 3-pole
Type of protection	IP65
Protection class IK (shock resistance)	IK08
Dimmable	No
Mounting type	Surface
Mounting location	Wall / Pole / Floor / Ceiling
Adjustable	Yes
LED module replaceable	Not replaceable

Lifespan

Lifespan L70/B50 at 25 °C	70000 h
Lifespan L80/B10 at 25 °C	55000 h
Lifespan L90/B10 at 25 °C	35000 h
Number of switching cycles	100000

Control gear

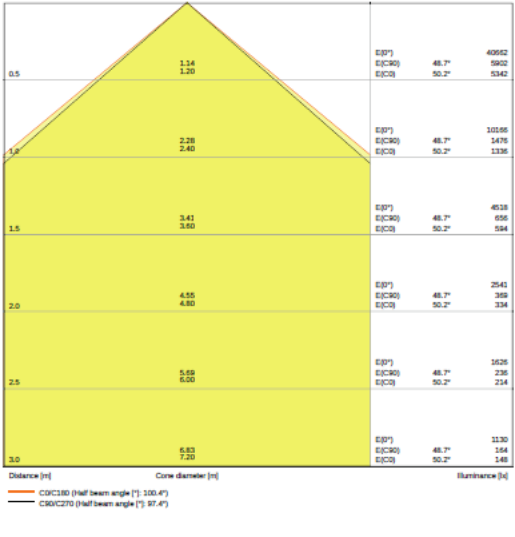
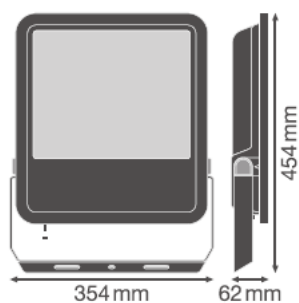
ECG - Output ripple current	< 35 %
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Certificates & Standards

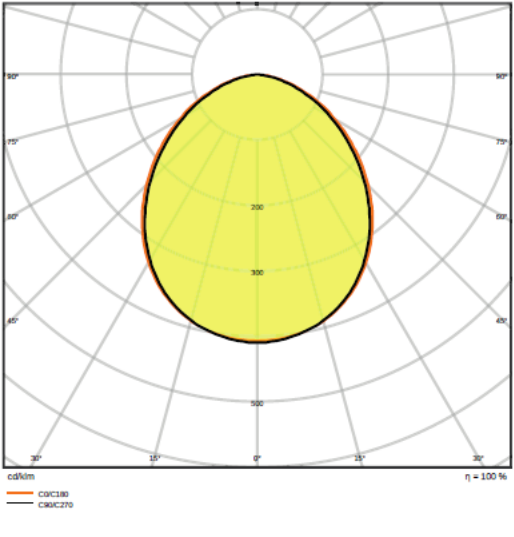
Standards	CE / CB / ENEC / EAC / RoHS
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No

Additional product data

Product remark	Available from September 2020
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LDC typ cone



LDC typ polar

Data Sheet for Mobile Tower Light



X-HYBRID
MOBILE
6x150W - LED - 9M





X-HYBRID MOBILE 6X150W - LED - 9M

Our engineers know that the market needs a lighting tower that is rugged, long lasting and safe. The X-HYBRID MOBILE has been created beginning from these characteristics. It is the best solution to your needs and guarantees 3800 sqm of illuminated area. 7 units can be loaded on a standard truck. To all of this, we added the technology that allows for maximum fuel efficiency and reliability.



- Multi-directionally adjustable and tiltable floodlights
- 7 sections hydraulic vertical tower 8,5m, 340° rotatable
- Standard light sensor for machine power on and off
- Galvanized metalworks
- 80 µm powder coating
- Very compact dimensions for easy handling & transportability, up to 7 units per truck
- Central lifting eye longitudinal and transversal forklift pockets for effective handling
- Plug & play, colour coded cables and connectors
- Guided main coiled cable to avoid damage during tower operation
- Control panel alarms for engine protection and fuel level indicator
- Circuit breaker for electrical protection against overload
- External emergency stop button
- Fully bunded tank, 110%
- Certified wind stability up to 110 km/h
- 4 extendable & height adjustable stabilizers
- On board levels for guidance during stabilization



APPLICATIONS

- Special events
- Rural & hard to reach areas
- Emergency response
- Construction & work sites
- Gas, oil & mining operations
- Military applications




7
Units Per Truck



You can place 7 units on a single vehicle thanks to one of the compactest footprints on the market.



technical data

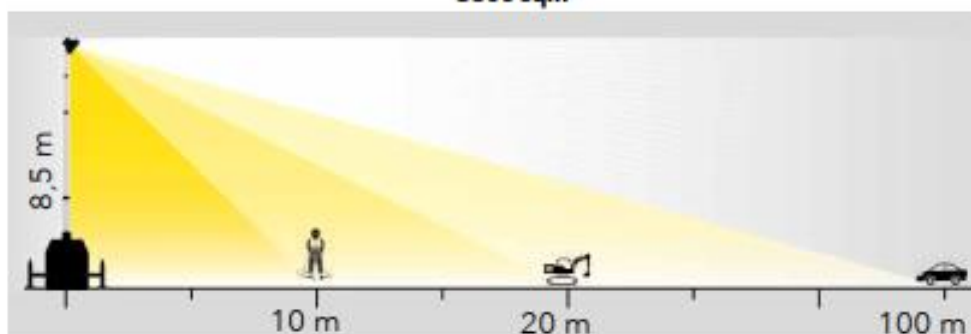
Dimensions & weight		Engine	
Dimensions min. (mm)	2944 x 1466 x 2570 mm	Model	Kubota Z482
Dimensions max (mm)	2944 x 2928 x 8500 mm	Fuel	Diesel
Dry Weight	1290Kg	rpm	1500
Features		Tank capacity (l)	222
Rotation	340°	Fuel consumption (l/h)	0,55
Floodlights	6x150W LED	Running time (h)	863
IP Level	67	Noise level at 7mt	62
Options	Timer	Batteries	
Alternator		Type	AGM ZL 06 130
Model	Linz Alumen SB	Batteries number	4
Rated output Kva	3,5	Batteries pack	24V DC 400 Ah
Frequency Hz	50	Expected battery cycle	500
Voltage V	230	Expected battery life time (h)	9500
Insulation class	H	Hybrid mode	
Degree of Protection	IP23	Running time (h)	11
Standard load delivery		Charging time with LED's ON (h)	11
		Charging time with LED's OFF (h)	8
		Complete discharge / charge cycle (h)	19
		Hybrid mode consumption (l/h)	0,23

7 sets

Units Per Truck:

Illuminated area (5 lux min.)

3800 sqm



TRIME
Lighting Tower Specialist

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