

Detailed Lighting Specification – Mayfield Medlock Limited

This document outlines the stage 4 specialist lighting specification for the above project.

Document revision	Revision note	Issue date
01	ER DRAFT	04-08-2023
02	ER ISSUE	15-08-2023
03	Stage 4 / ER Issue	25-07-2024

Document prepared by : EF
Document Approved by : CS

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Detailed Lighting Specification – Mayfield Medlock Limited

Introduction

The information contained within this specification is based on manufacturers information during stage 4. It is the contractor's responsibility to liaise with each manufacturer during the design and build phase and confirm / check final product details / references prior to ordering.

If products are discontinued or no longer available during the design and build stage, the electrical contractors are to advise Studiofractal and issue a request for an alternative specification.

Tender - It is the contractor's responsibility to confirm final quantities and lengths of fittings in preparation of tender pricing.

Prior to ordering, it is the contractor's responsibility to confirm final quantities and lengths of fittings, based on final construction drawings.

Contractor to arrange working samples of each light fitting for review and sign off by the design team. Note that the design team may request some samples to be installed in temporary mock-ups to review quality of beam angle and light distribution.

Contractor to take responsibility for luminaire installation including but not limited to all fixings / suspension cables / suspension rods / special mounting brackets and electrical infrastructure such as junction boxes, containment, uni strut, cable sizing and specification etc.

Special RAL finishes - Prior to ordering it is the contractor's responsibility to prepare a schedule of luminaire finishes to be checked against final architectural finishes. Architects and lighting designers to approve final luminaire finishes.

LED Drivers - Where LED drivers are installed remotely it is the electrical contractor's responsibility to confirm that the final positions are within the manufacturers recommended maximum distances and utilise the correct cable size. Design intent information has been included within studiofractal stage 4 documentation but should be developed by contractor based on site conditions.

LED's - All luminaires to utilise LED's within 3 Macadams Ellipse and be CRI 80+ unless otherwise stated.

Colour temperature - Refer to individual specification pages for LED colour temperatures.

Reference - Specification to be read in conjunction with Studiofractal lighting drawings and lighting control brief.

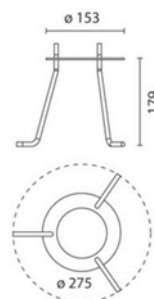
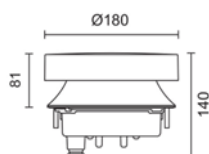
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Fixture ref	B1 - To match Mayfield Park
Manufacturer/Ref	iGuizzini - EN96 + EP17
Accessory	EP17, post for I Way optical compartment, diam 170mm-h 919mm, B513 counter plate with anchor bolts.
Contact	Name : David Griffiths
	Office : 01483 468000
	Mobile : 07850 319459
	Email : david.griffiths@iguzzini.co.uk
Lamp	Manufacturer : N/A
	Description : LED
	Lamp colour : 3000K
	No. lamps : multiple
Luminaire description	IP66, Surface mounted LED bollards, 12.3W, 1650 lumens, 3000K, 180 degrees asymmetrical beam. Material extruded aluminium. Luminaire to be supplied with EP17 post and B513 counter plate and bolts. Luminaire to be supplied with switched driver. Electrical engineer to confirm compatibility between control gear / transformer and lighting control system.
Appearance	RAL 7021
Notes	CRI 80
Location	Pathways

Image

Dimensions



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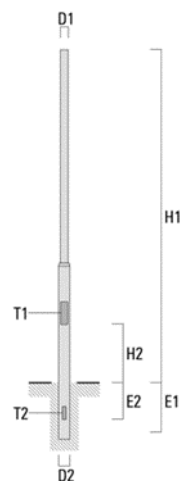
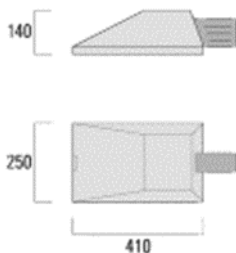
Fixture ref	C1-To match Mayfield Park
Manufacturer/Ref	WE-EF PFL230 LED - 108-1627 on 5000mm pole
Accessory	230 Pole bracket (size of the clamp tbc), 5000 mm column
Contact	Name : David Storey
	Office :
	Mobile : 07766 021409
	Email : David.Storey@fagerhult.co.uk
Lamp	Manufacturer : N/A
	Description : LED
	Lamp colour : 3000K
	No. lamps : multiple
Luminaire description	5m Column complete with IP66, Pole mounted, 28W, LED, 2357 delivered lumens, 3000K, asymmetric-side throw beam , CRI > 80, switched driver. Column to be provided with single clamp bracket. Columns to be supplied with access hatch at low level and complete with timber backboard for electrical cutout (electrical cutout supplied by contractor). Doors to have standard tri-key lock. Column supplier to ensure columns are in-line with latest BS/EN requirements and the foundation type is agreed with contractor prior to order. Manufacturer to provide drawings for design team approval prior to order. Electrical engineer to confirm compatibility between control gear / transformer and lighting control system.
Appearance	RAL 7021
Notes	Note all columns to be the diameter at base
Location	Public Realm

Image



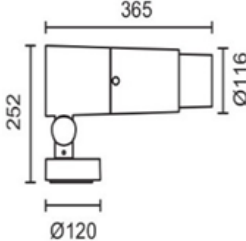
Dimensions

H1: 5000mm Please refer to SF drawings for column requirements



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Fixture ref	C2 (with GOBO Projectors +VSS CAMERA)
Manufacturer/Ref	iGuzzini/5m Column, 2x X417 for Gobo EN24 pole mounted per column (switched gear), X477 Coloured glass, Rosco steel gobo 77102 Abstract Leaves
Accessory	Luminaire Column mounting clamp required, X306 45° cylindrical screen
Contact	Name : David Griffiths
	Office : 01483 468000
	Mobile : 07850 319459
	Email : david.griffiths@iguzzini.co.uk
Lamp	Manufacturer : N/A
	Description : LED
	Lamp colour : 3000K
	No. lamps : multiple
Luminaire description	5m Column complete with 2 x 35W (975 lumens), 3000k (warm white) LED's within aluminium housing with framer beam optics. To be supplied with metal gobo 30mm diameter. Switched gear. Columns to be supplied with access hatch at low level and complete with timber backboard for electrical cutout (electrical cutout supplied by contractor). Doors to have standard tri-key lock. Columns to be reinforced to meet the VSS requirements of +/- 20mm at wind speeds of 100kph mounted at 4m. Camera weight to be <8kg, 10mm electrical gland required. Final Camera spec tbc by VSS consultant. Column supplier to ensure columns are in-line with latest BS/EN requirements and the foundation type is agreed with contractor prior to order. Manufacturer to provide drawings for design team approval prior to order. Electrical engineer to confirm compatibility between control gear / transformer and lighting control system.
Appearance	RAL 7021
Notes	Note all columns to be the diameter at base
Location	Public Realm
Image	Dimensions
	

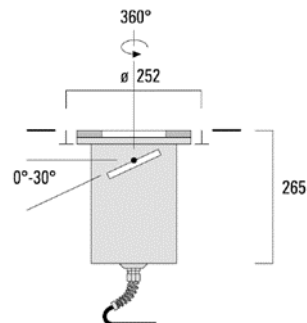
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Fixture ref	U1-To match Mayfield Park
Manufacturer/Ref	We-ef/ETC130 185-2446
Accessory	Switched transformer required. Installation blackout for installation, antislip fritted cover glass.
Contact	Name : David Storey
	Office :
	Mobile : 07766 021409
	Email : David.Storey@fagerhult.co.uk
Lamp	Manufacturer : N/A
	Description :
	Lamp colour : 3000K
	No. lamps : single
Luminaire description	IP67, 18W LED buried inground uplighter luminaire. 2177lm output, switched driver and stainless steel bezel. Luminaire to be supplied with installation sleeve. Electrical engineer to confirm compatibility between control gear / transformer and lighting control system.
Appearance	Stainless Steel
Notes	CRI > 80
Location	Trees

Image

Dimensions



STUDIOFRACTAL

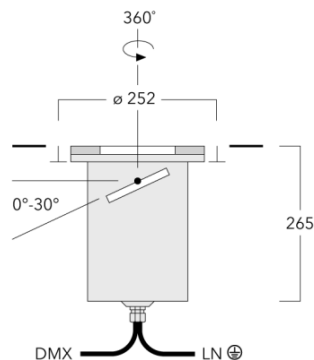
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Fixture ref	U2
Manufacturer/Ref	We-ef/ETC130-GB-CC LED 185-3390
Accessory	DMX transformer required. Installation blackout for installation, antislip fritted cover glass.
Contact	Name : David Storey
	Office :
	Mobile : 07766 021409
	Email : David.Storey@fagerhult.co.uk
Lamp	Manufacturer : N/A
	Description :
	Lamp colour : 3000K
	No. lamps : single
Luminaire description	IP67, 23W LED RGBW changer, 1327lm output, symmetric, medium beam, buried inground uplighter luminaire, DMX driver and stainless steel bezel. Luminaire to be supplied with installation sleeve. Electrical engineer to confirm compatibility between control gear / transformer and lighting control system.
Appearance	Stainless Steel
Notes	CRI > 80
Location	Trees

Image



Dimensions



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Detailed Lighting Specification – Mayfield Medlock Limited

Fixture ref	H1-To match Mayfield Park
Manufacturer/Ref	WILA / PUCK XT-Round MP1201501-70-30 One-sided beam
Accessory	Contractor to verify which Accessories are required when placing the order. Switched remote transformers / power supplies required.
Contact	Name : Rosa Astle
	Office : 01235 773500
	Mobile : 07393 465610
	Email : rosa@wila.co.uk
Lamp	Manufacturer : N/A
	Description :
	Lamp colour : 3000K
	No. lamps : single
Luminaire description	IP66, 1.5W, 3000K, 169 lumens, CRI>80, LED luminaire within handrail. Switched driver required. Drivers to be within IP rated enclosures and buried within accessible location. Contractor to confirm driver positions and provide cables & connectors between power supplies, drivers and luminaires. Driver qty and location to be checked prior to order. Electrical engineer to confirm compatibility between control gear / transformer and lighting control system.
Appearance	Stainless Steel
Notes	CRI > 80
Location	Stairs

Image



Dimensions

Accessories



MP-011
Puck XT insertion tool



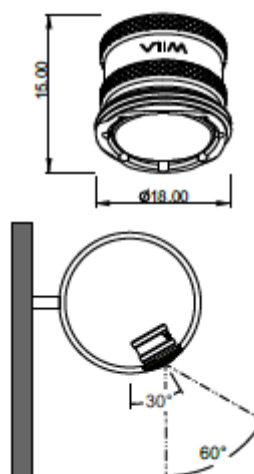
MP-002
Crimp pliers



MP-003
Gel connector

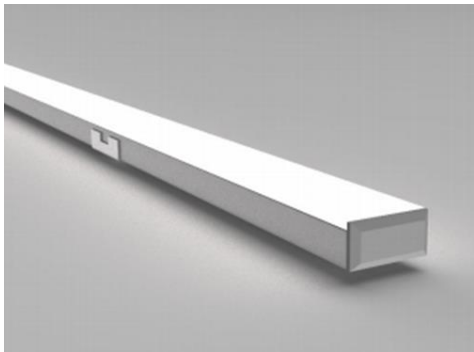
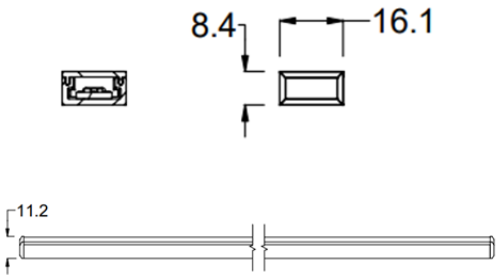


MP-004
Loctite243, 10ml bottle



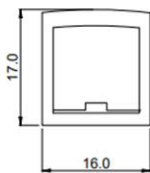
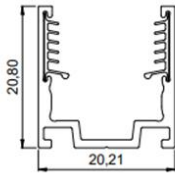
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Fixture ref	L1-To match Mayfield Park
Manufacturer/Ref	Kemps Lighting, PROTEUS-M - Linear LED, PRO-M-7-830-O-67-F
Accessory	Fixed bracketss, switched remote transformers / power supplies required.
Contact	Name : Nick Rockliff
	Office : +44 (0) 113 263 9039
	Mobile : +44 07841 464 827
	Email : NickRockliff@kempslighting.com
Lamp	Manufacturer : N/A
	Description :
	Lamp colour : 3000K
	No. lamps : multiple
Luminaire description	IP67, 7W/m, 800 lm/m, 3000K, linear LED luminaire. Aluminium mounting clips and opal diffuser,switched driver. Drivers to be within IP rated Enclosures and buried within accessible location. Contractor to confirm overall luminaire lengths, driver positions and provide cables & connectors between power supplies, drivers and luminaires. Driver qty and location to be checked prior to order. Electrical engineer to confirm compatibility between control gear / transformer and lighting control system.
Appearance	Aluminium
Notes	CRI > 80
Location	Benches
Image Dimensions  	

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Fixture ref	L2-To match Mayfield Park
Manufacturer/Ref	Kemps Lighting, FLEXUS 3 FX3-830-VB-1E
Accessory	surface mount fixing clips, mounting clips to be located at 100mm intervals along continuous luminaire runs, switched remote transformers / power supplies required.
Contact	Name : Nick Rockliff
	Office : +44 (0) 113 263 9039
	Mobile : +44 07841 464 827
	Email : NickRockliff@kempslighting.com
Lamp	Manufacturer : N/A
	Description :
	Lamp colour : 3000K
	No. lamps : multiple
Luminaire description	IP67, 15W/m, 480 lm/m linear flexible LED luminaire . Aluminium mounting clips,switched driver. Drivers to be within IP rated Enclosures and buried within accessible location. Contractor to confirm overall luminaire lengths, driver positions and provide cables & connectors between power supplies, drivers and luminaires. Driver qty and location to be checked prior to order. Electrical engineer to confirm compatibility between control gear / transformer and lighting control system.
Appearance	Aluminium
Notes	CRI > 80
Location	Bridges
Image  Dimensions  FX3 Cross Section  Serrated Aluminium Profile	

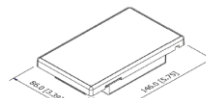
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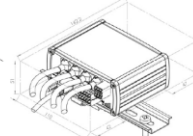
Fixture ref	Lighting Control
Manufacturer/Ref	Architainment / WiFi Cloud System with Dynalite lighting control system
Accessory	Astronomical Timeclock, daylight Photocell monitoring, manual override push button controller panel, Pharos with modem Cloud Access
Contact	Name : Lee Shields
	Office : 01494 471340
	Mobile : 07795 974603
	Email : lee.shields@architainment.co.uk
Luminaire description	The Lighting Scheme shall be controlled from the designated Lighting control system. Contractor to confirm with client team the control system will be located within the security building. All lighting shall be controlled daylight tracking photocell sensors with the control system also having the capability of astronomical timeclock (for ambient and accent lighting switching). Additionally an 4 button manual override wall plate is to be located within security building. Photocells will be attached to 3no. separate lighting columns across the site which will activate all lighting within the park when one sensors is activated via light levels dropping too low. Photocell columns to be linked back to the control system to ensure all lighting is switched on together, and aligned with the Phase 1 Park lighting timings. Accent lighting (tree lighting) will be switched off via timeclock at 11pm. Wall Plate Button/Scenes 1. All On/Off 2. Zone 1 On/Off 3. Zone 2 On/Off 4. Zone 3 On/Off 5. Zone 4 On/Off Please refer to Lighting control plan over zone area coverage and luminaire control channels. Lighting controller to be located within external feeder pillar – refer to electrical engineers drawing for location. Local control for circuitry override to be from feeder pillar. Control system will require enclosure to house all module components. Control/button plates and relevant communication modules required for manual override, contractor to confirm requirements and location prior to order. System to have a Pharos based and WiFi enabled Cloud lighting control system for all RGBW (colour changeable luminaires). 4G modem to be supplied to allow remote control if required. Access to the Pharos control system to be done remotely via any internet connected device. Operating system remotely updated when necessary from Archicloud. Contractor to allow for Commissioning and set up by from Supplier and Lighting Designer - onsite and remote. Electrical engineer to confirm compatibility between control gear / transformer and lighting control system.



Pharos TPC



RUT955



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