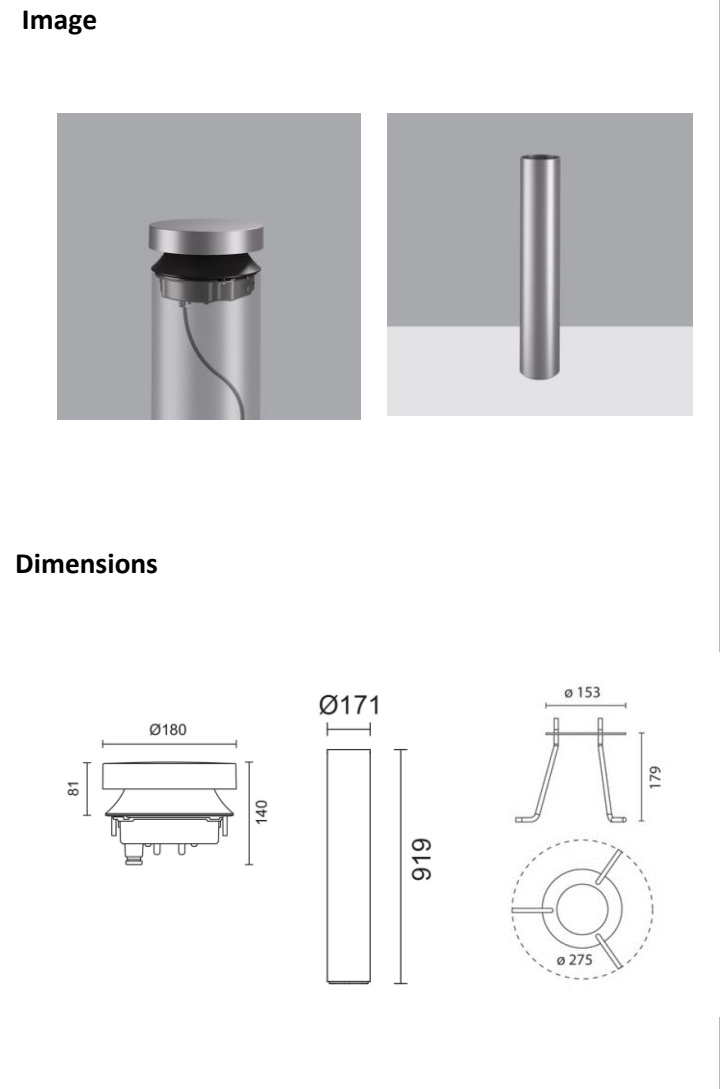


This document outlines the latest detail design specialist lighting specification for the above project.

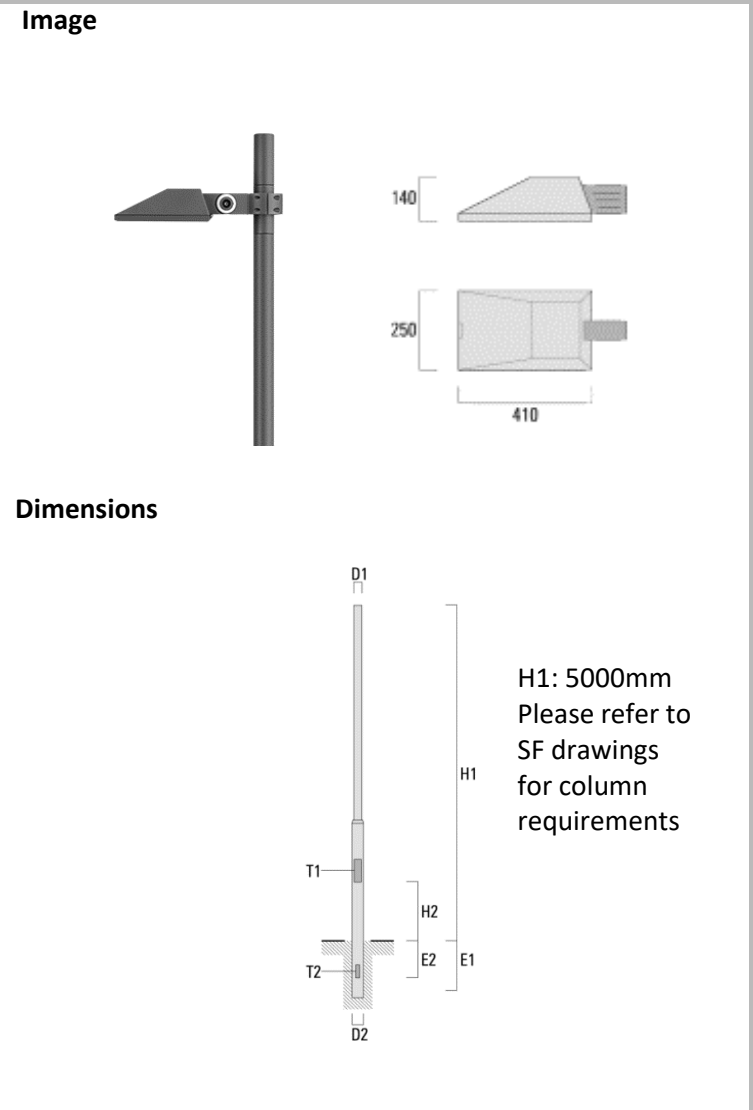
Document Revision		Revision Note	Date of issue
S4.01	For Planning		19/02/2021
S4.02	For Planning Update		19/10/2021

Document Produced By E.Flouda
Document Approved By C.Sutherland

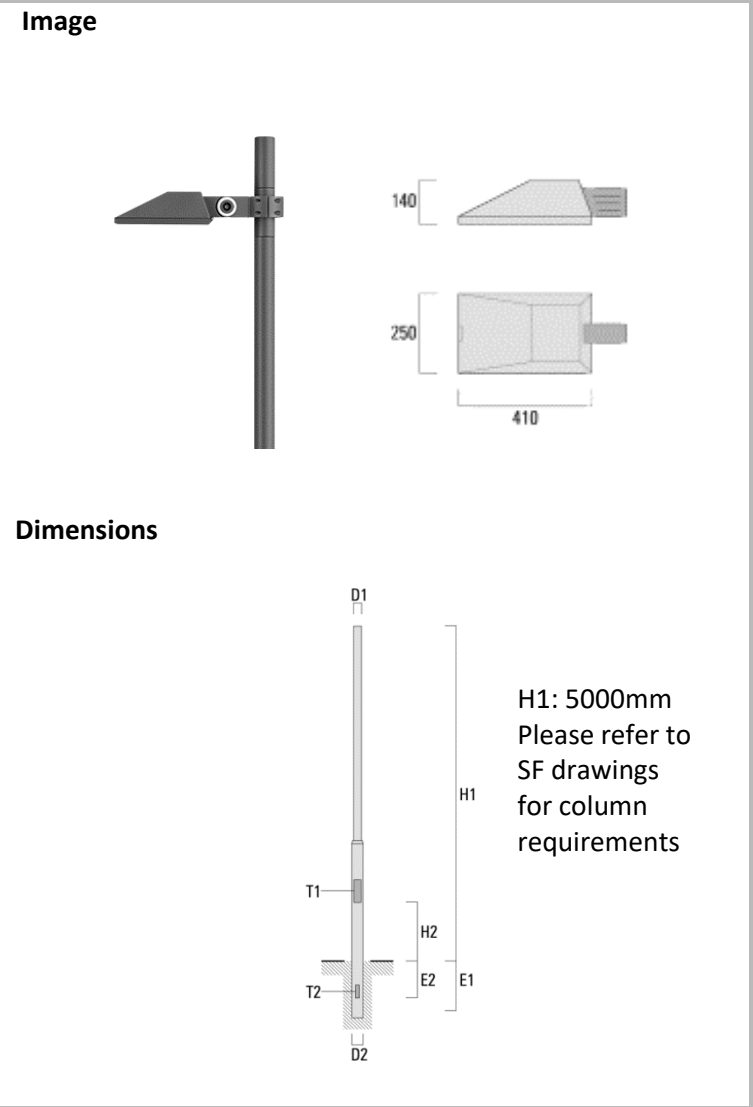
Fitting type	B1
Manufacturer/Ref	iGuzzini - EN96 + EP17
Accessory	EP17, post for I Way optical compartment, diam 170mm-h 919mm, B513 counter plate with anchor bolts.
	Name David Griffiths
	Office 01483 468000
Contact	Mobile 07850 319459
	Email: david.griffiths@iguzzini.co.uk
	Manufacturer :
Lamp	Description : 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



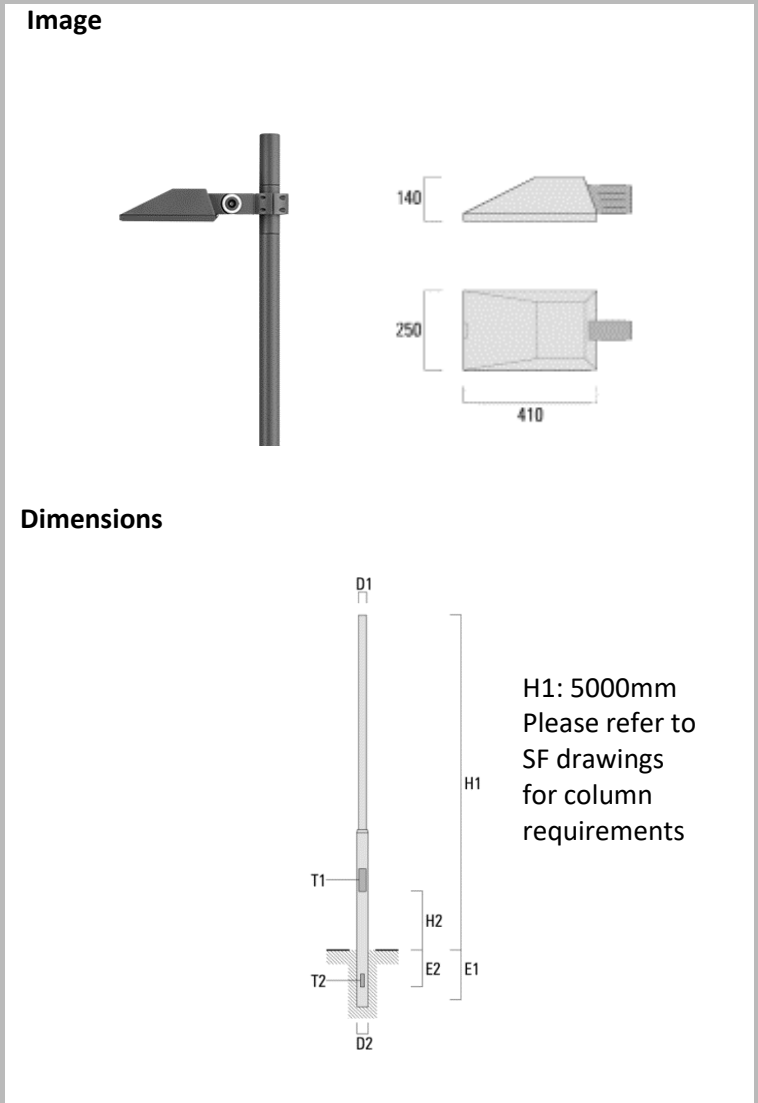
Fitting type	C1
Manufacturer/Ref	WE-EF PFL230 LED - 108-1627 on 5000mm pole
Accessory	230 Pole bracket (size of the clamp tbc), 5000 mm column
	Name David Storey
	Office
Contact	Mobile 07766 021409
	Email: David.Storey@fagerhult.co.uk
	Manufacturer :
Lamp	Description : LED
	Lamp colour : 3000K
	No. lamps : 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



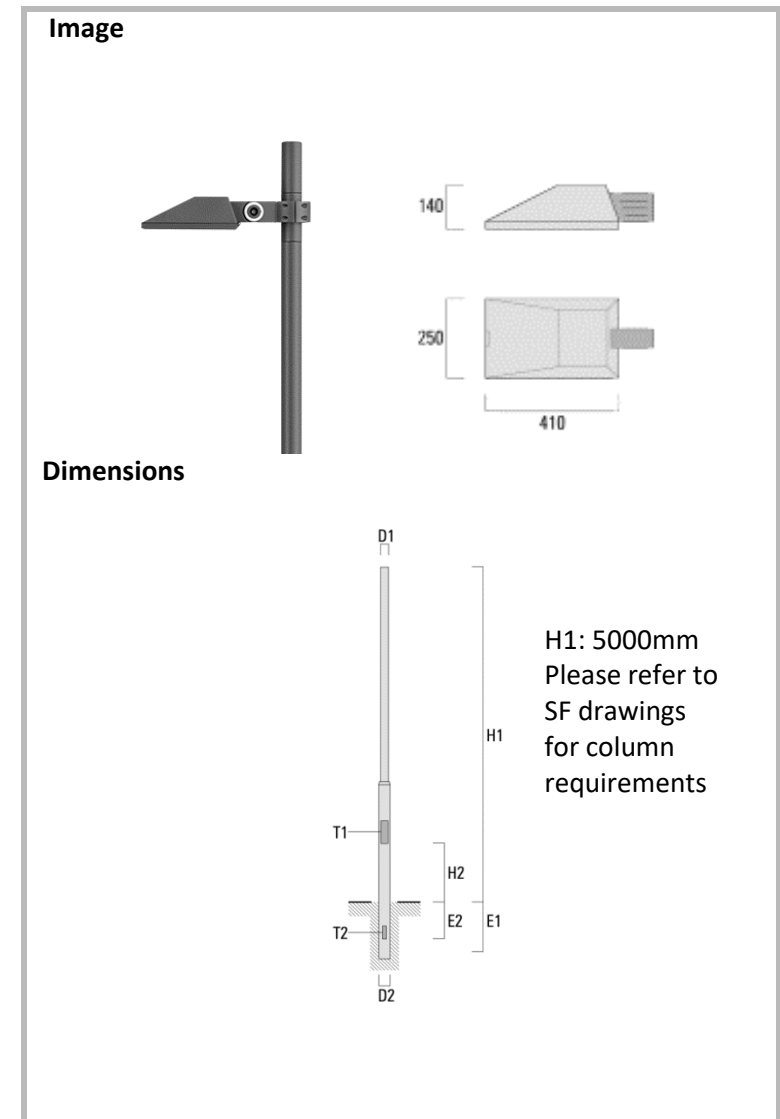
Fitting type	C1A (with 16Amp temporary power outlet)
Manufacturer/Ref	WE-EF PFL230 LED - 108-1627 on 5000mm pole
Accessory	230 Pole bracket (size of the clamp tbc), 5000 mm column 16AMP socket within column accessible via separate access door Name David Storey Office
Contact	Mobile 07766 021409 Email: David.Storey@fagerhult.co.uk Manufacturer :
Lamp	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). 16AMP socket located within column accessible via seperate access door. Door to be notched to allow the door to be closed with temporary power cable plugged in. 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



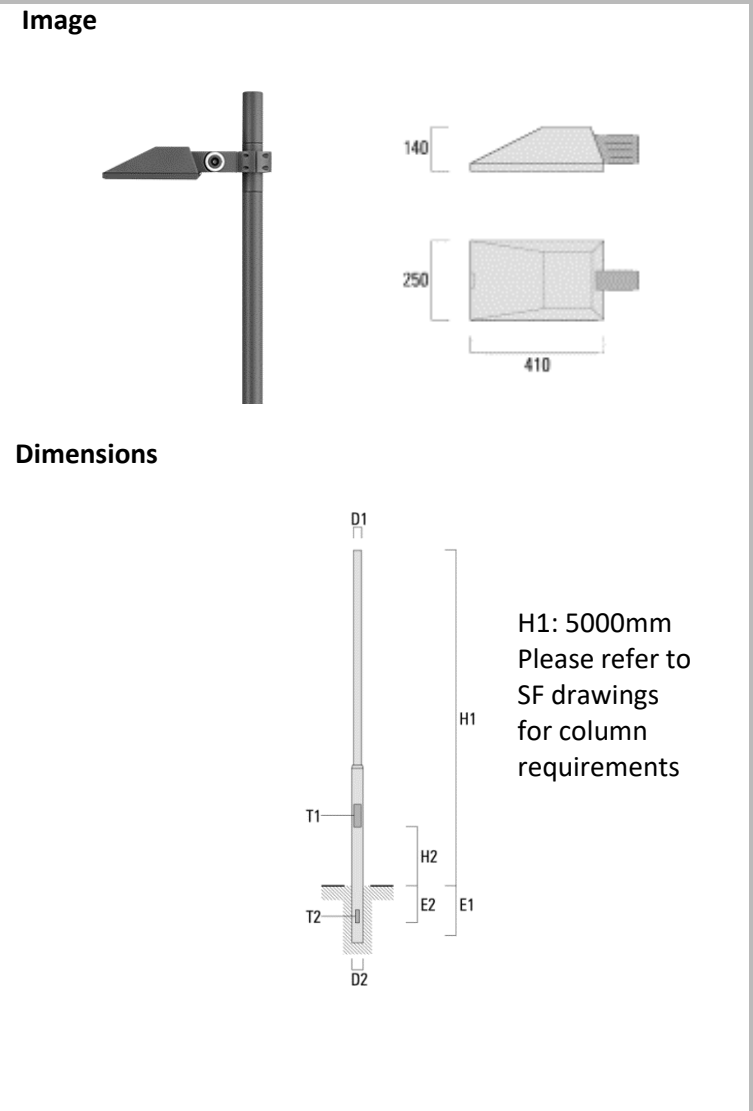
Fitting type	C1B (with VSS CAMERA)
Manufacturer/Ref	WE-EF PFL230 LED - 108-1627 on 5000mm pole
Accessory	230 Pole bracket (size of the clamp tbc), 5000 mm column Reinforced for CCTV deflections requirements
Contact	Name David Storey Office Mobile 07766 021409 Email: David.Storey@fagerhult.co.uk Manufacturer :
Lamp	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. 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



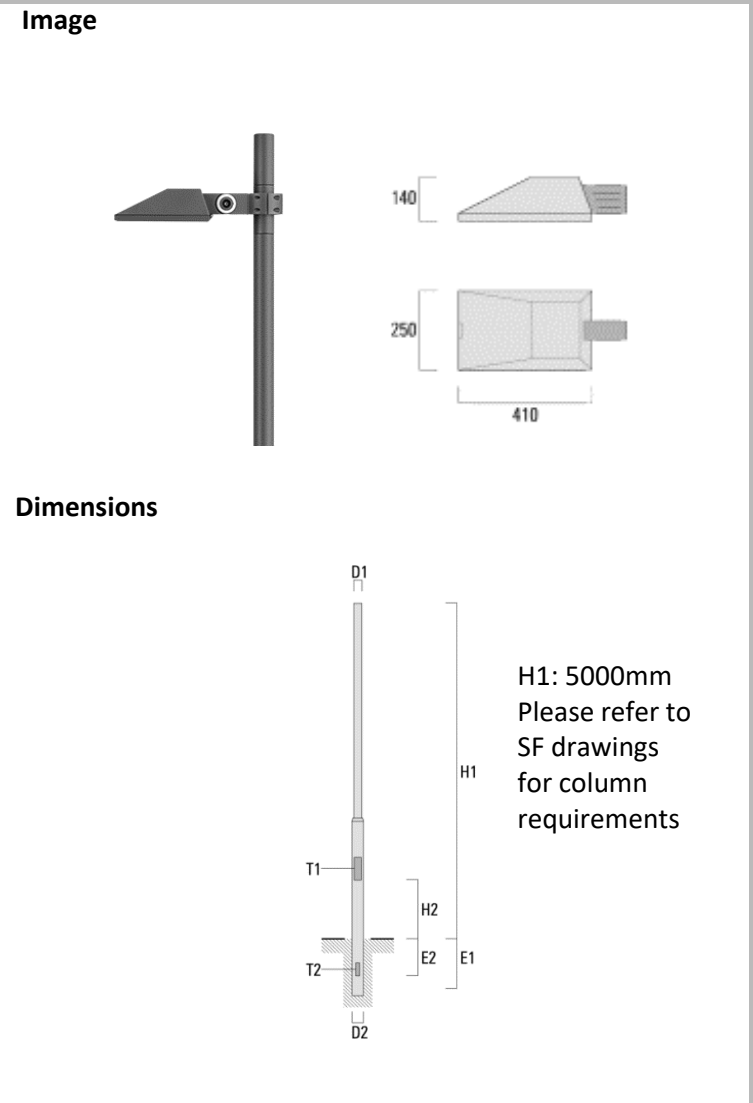
Fitting type	C1C (with VSS CAMERA + SPEAKER)
Manufacturer/Ref	WE-EF PFL230 LED - 108-1627 on 5000mm pole
Accessory	230 Pole bracket (size of the clamp tbc), 5000 mm column Reinforced for CCTV deflections requirements
Contact	Name David Storey Mobile 07766 021409 Email: David.Storey@fagerhult.co.uk Manufacturer :
Lamp	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. Columns to be reinforced to meet the VSS requirements of +/- 20mm at wind speeds of 100kph mounted at 4000mm. Camera weight to be <8kg. 10mm electrical gland required. Final Camera spec tbc by VSS consultant. Speaker to be approx 2kg and mounted at 4500mm, 10mm electrical gland required requirements to be confirmed 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



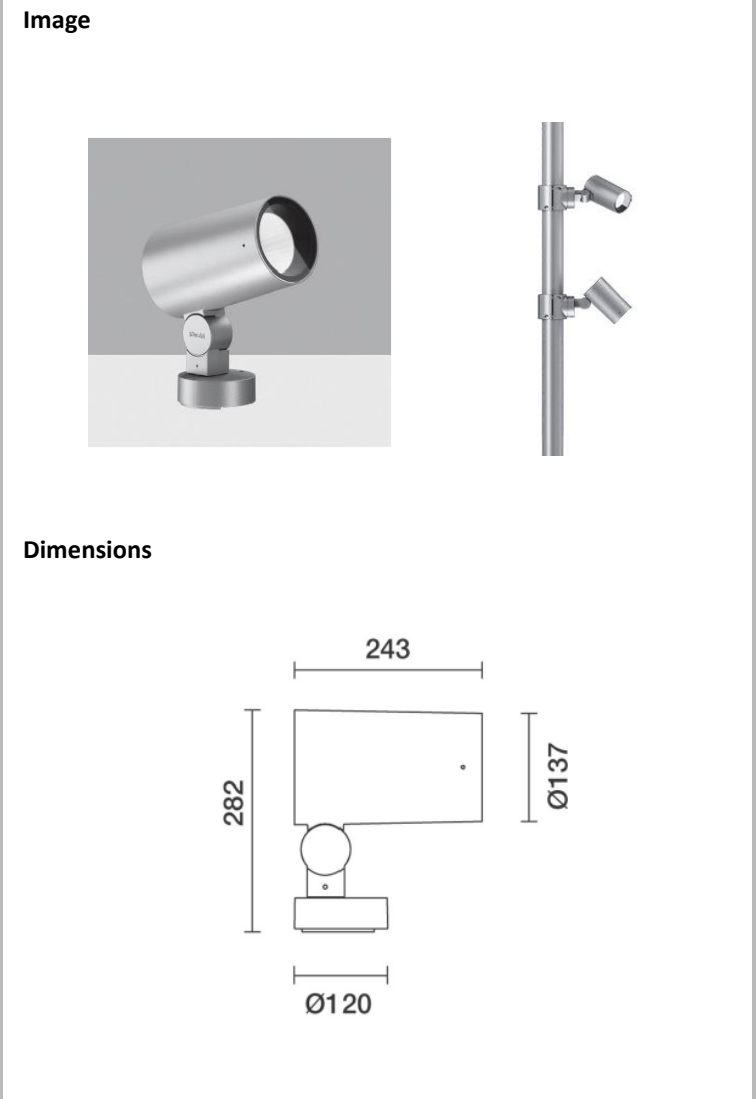
Fitting type	C1E (with WIFI + VSS CAMERA)
Manufacturer/Ref	WE-EF PFL230 LED - 108-1627 on 5000mm pole
Accessory	230 Pole bracket (size of the clamp tbc), 5000 mm column Reinforced for CCTV deflections requirements
Contact	Name David Storey Mobile 07766 021409 Email: David.Storey@fagerhult.co.uk Manufacturer :
Lamp	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. Columns to be reinforced to meet the VSS requirements of +/- 20mm at wind speeds of 100kph mounted at 4000mm, 10mm electrical gland required. Camera weight to be <8kg. Final Camera spec tbc by VSS consultant. Wifi Access point to be mounted at 3800mm, requirements to be confirmed AP installer. 10mm electrical gland and counter sunk fixing screws (M8) to be provided. 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



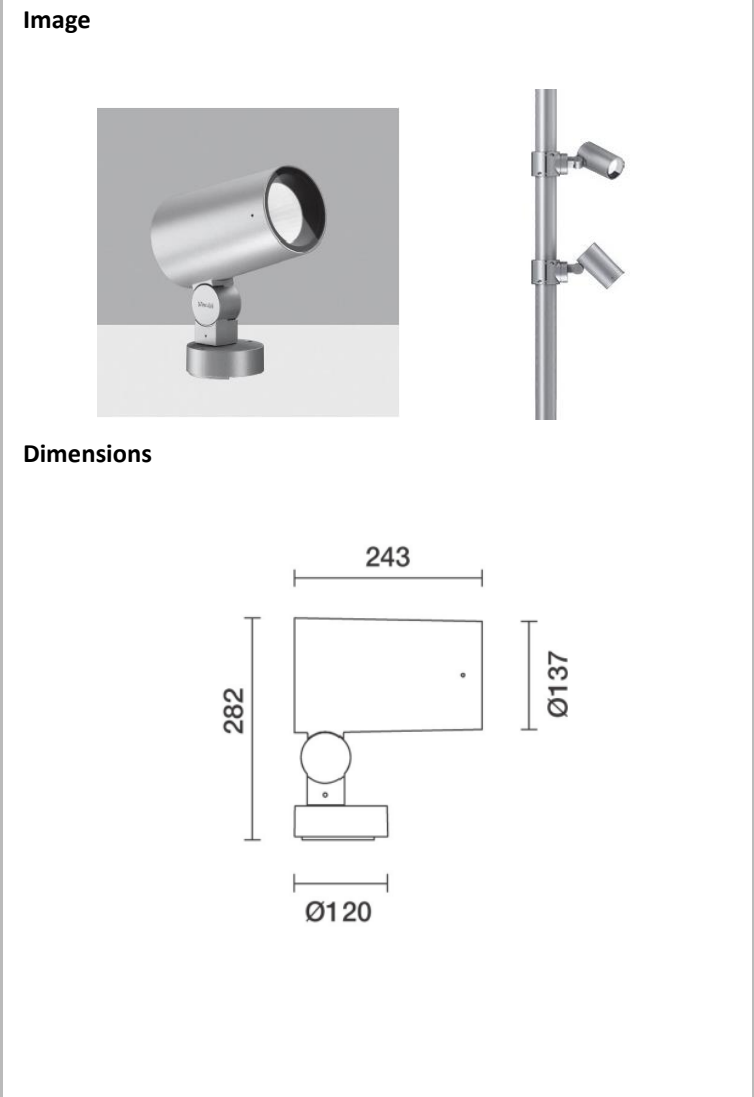
Fitting type	C1F (with WIFI)
Manufacturer/Ref	WE-EF PFL230 LED - 108-1627 on 5000mm pole
Accessory	230 Pole bracket (size of the clamp tbc), 5000 mm column
	Name David Storey
Contact	Office
	Mobile 07766 021409
	Email: David.Storey@fagerhult.co.uk
	Manufacturer :
Lamp	Description : LED
	Lamp colour : 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. Wifi Access point to be mounted at 3800mm, requirements to be confirmed AP installer. 10mm electrical gland and counter sunk fixing screws (M8) to be provided. 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



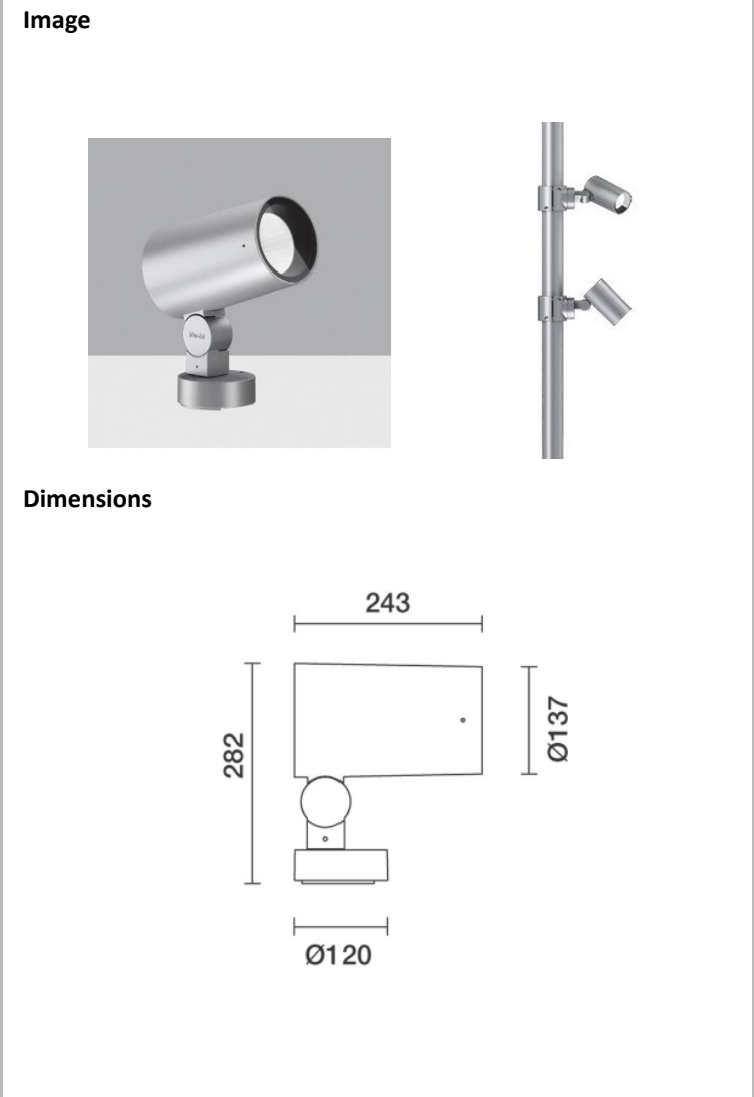
Fitting type	C2
Manufacturer/Ref	iGuzzini/5000mm Column, 2 x Palco InOut EF43 pole
Accessory	refer to plan to understand which columns require photocells Luminaire Column mounting clamps required + Column Photocell, X306 45° cylindrical screen, X308 Honeycomb louvre - IP66
Contact	Name David Griffiths Office +44 (0)1483 468000 Mobile +44 (0)7850 319459 Email david.griffiths@iguzzini.co.uk Manufacturer : Iguzzini
Lamp	Description : LED Lamp colour : 3000K No. lamps : single LED
Luminaire description	5m Column complete with 2 x IP66, 25.7W 2884lm 3000k LED projectors with aluminium housing and reflector, glass lens cover, tilt and rotate base plus column mounting clamps. Flood beam distribution. Switched gear and photocell. 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



Fitting type	C2 A (with 16Amp temporary power outlet)
Manufacturer/Ref	iGuzzini/5000mm Column, 2 x Palco InOut EF43 pole refer to plan to understand which columns require photocells
Accessory	Luminaire Column mounting clamp required + Column Photocell, X306 45° cylindrical screen, X308 Honeycomb louvre - IP66 Name David Griffiths Office +44 (0)1483 468000
Contact	Mobile +44 (0)7850 319459 Email david.griffiths@iguzzini.co.uk
Lamp	Manufacturer : Iguzzini Lamp colour : 3000K No. lamps : single LED
Luminaire description	5m Column complete with 2 x IP66, 25.7W 2884lm 3000k LED projectors with aluminium housing and reflector, glass lens cover, tilt and rotate base plus column mounting clamps. Flood beam distribution. Switched gear and photocell. 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. 16AMP socket located within column accessible via seperate access door. Door to be notched to allow the door to be closed with temporary power cable plugged in 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



Fitting type	C2B (with VSS CAMERA)
Manufacturer/Ref	iGuzzini/5000mm Column, 2 x Palco InOut EF43 pole refer to plan to understand which columns require photocells
Accessory	Luminaire Column mounting clamp required + Column Photocell, X306 45° cylindrical screen, X308 Honeycomb louvre - IP66 Name David Griffiths Office +44 (0)1483 468000
Contact	Mobile +44 (0)7850 319459 Email david.griffiths@iguzzini.co.uk Manufacturer : Iguzzini
Lamp	Lamp colour : 3000K No. lamps : single LED
Luminaire description	5m Column complete with 2 x IP66, 25.7W 2884lm 3000k LED projectors with aluminium housing and reflector, glass lens cover, tilt and rotate base plus column mounting clamps. Flood beam distribution. Switched gear and photocell. 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

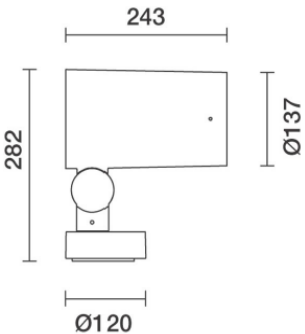


Fitting type	C2C (with VSS CAMERA + SPEAKER)
Manufacturer/Ref	iGuzzini/5000mm Column, 2 x Palco InOut EF43 pole refer to plan to understand which columns require photocells
Accessory	Luminaire Column mounting clamp required + Column Photocell, X306 45° cylindrical screen, X308 Honeycomb louvre - IP66 Name David Griffiths Office +44 (0)1483 468000 Mobile +44 (0)7850 319459 Email david.griffiths@iguzzini.co.uk
Contact	Manufacturer : Iguzzini
Lamp	Lamp colour : 3000K No. lamps : single LED
Luminaire description	5m Column complete with 2 x IP66, 25.7W 2884lm 3000k LED projectors with aluminium housing and reflector, glass lens cover, tilt and rotate base plus column mounting clamps. Flood beam distribution. Switched gear and photocell. 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. Speaker to be approx 2kg and mounted at 4500mm, 10mm electrical gland required requirements to be confirmed 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

Image



Dimensions

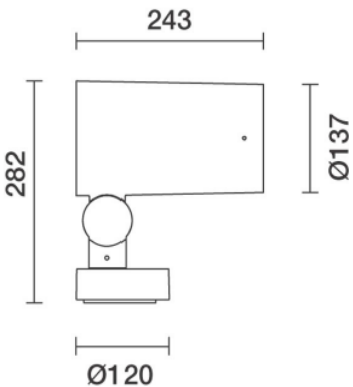


Fitting type	C2D (with WIFI + CAMERA + SPEAKER)
Manufacturer/Ref	iGuzzini/5000mm Column, 2 x Palco InOut EF43 pole refer to plan to understand which columns require photocells
Accessory	Luminaire Column mounting clamp required + Column Photocell, X306 45° cylindrical screen, X308 Honeycomb louvre - IP66 Name David Griffiths Office +44 (0)1483 468000
Contact	Mobile +44 (0)7850 319459 Email david.griffiths@iguzzini.co.uk Manufacturer : Iguzzini
Lamp	Lamp colour : 3000K No. lamps : single LED
Luminaire description	5m Column complete with 2 x IP66, 25.7W 2884lm 3000k LED projectors with aluminium housing and reflector, glass lens cover, tilt and rotate base plus column mounting clamps. Flood beam distribution. Switched gear and photocell. 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. Speaker to be approx 2kg and mounted at 4500mm, 10mm electrical gland required requirements to be confirmed consultant. Wifi Access point to be mounted at 3800mm, requirements to be confirmed AP installer. 10mm electrical gland and counter sunk fixing screws (M8) to be provided. 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

Image



Dimensions

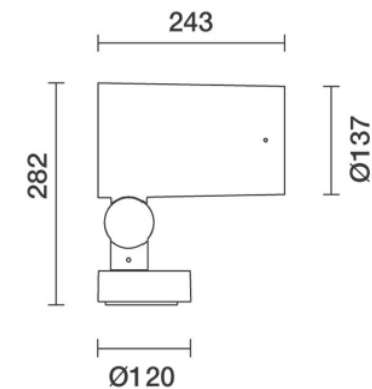


Fitting type	C2E (with WIFI + CAMERA)
Manufacturer/Ref	iGuzzini/5000mm Column, 2 x Palco InOut EF43 pole refer to plan to understand which columns require photocells
Accessory	Luminaire Column mounting clamp required + Column Photocell, X306 45° cylindrical screen, X308 Honeycomb louvre - IP66 Name David Griffiths Office +44 (0)1483 468000 Mobile +44 (0)7850 319459 Email david.griffiths@iguzzini.co.uk Manufacturer : Iguzzini Lamp colour : 3000K No. lamps : single LED
Lamp	
Luminaire description	5m Column complete with 2 x IP66, 25.7W 2884lm 3000k LED projectors with aluminium housing and reflector, glass lens cover, tilt and rotate base plus column mounting clamps. Flood beam distribution. Switched gear and photocell. 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. Wifi Access point to be mounted at 3800mm, requirements to be confirmed AP installer. 10mm electrical gland and counter sunk fixing screws (M8) to be provided. 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

Image



Dimensions

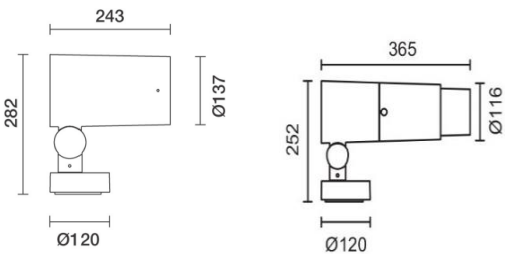


Fitting type	C3 (with GOBO Projectors)
Manufacturer/Ref	iGuzzini/5m Column, 1 x Palco InOut EF43 and 2x X417 for Gobo EN24 pole mounted per column (switched gear) Rosco steel gobo 77955 Ripple
Accessory	Luminaire Column mounting clamp required, X306 45° cylindrical screen, X308 Honeycomb louvre - IP66 Name David Griffiths Office +44 (0)1483 468000 Mobile +44 (0)7850 319459 Email david.griffiths@iguzzini.co.uk Manufacturer : Iguzzini Lamp colour : 3000K No. lamps : single LED
Lamp	
Luminaire description	5m Column complete with 1 x IP66, 25.7W 2884lm 3000k LED projectors with aluminium housing and reflector, glass lens cover, tilt and rotate base plus column mounting clamps. Flood beam distribution. Switched gear. 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. Columns to be supplied with access hatch at low level and complete with timber backboard for electrical cutout (electrical cutout supplied by contractor). 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

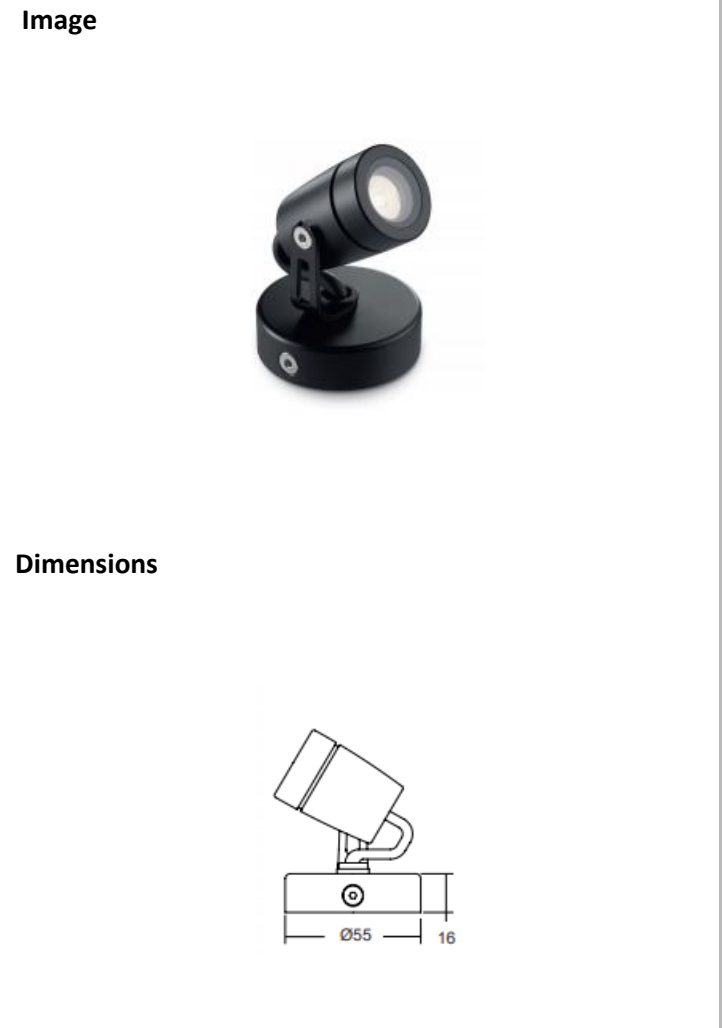
Image



Dimensions

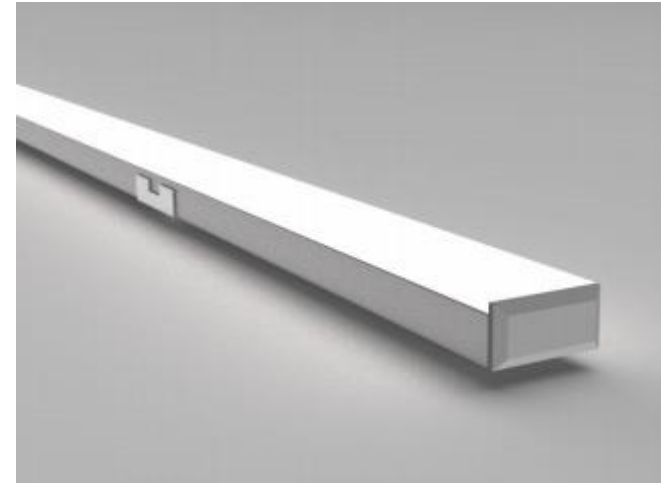


Fitting type	D1
Manufacturer/Ref	LightGraphix - LD51
Accessory	/CO Anti glare cowl, /GS surface mount base
Contact	Name Mitchell Wood Office (0)1322 527 629 Mobile Email: mitchell@lightgraphix.biz Manufacturer :
Lamp	Description : LED Lamp colour : 3000K No. lamps : multiple
Luminaire description	IP 67, Surface mounted adjustable spotlight 1.7W, 500mA 3000K, 12° narrow spot with an antiglare cowl and surface mount base. Luminaire to be supplied with remote switched driver. Electrical engineer to confirm compatibility between control gear / transformer and lighting control system.
Appearance	Black Anodised Aluminium
Notes	CRI 80
Location	Bridge

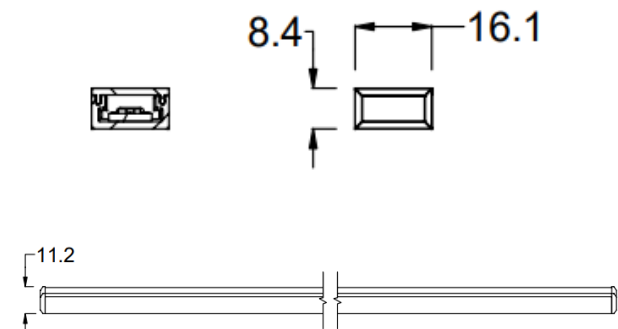


Fitting type	H1
Manufacturer/Ref	Kemps Lighting, PROTEUS-M - Linear LED, PRO-M-11-830-O-67-F
Accessory	Fixed bracketss, switched remote transformers / power supplies required.
Contact	Name Nick Rockliff Office 0113 263 9039 Mobile 07841 464827 Email: NickRockliff@kempslighting.com Manufacturer :
Lamp	Description : LED Lamp colour : 3000K No. lamps : multiple
Luminaire description	IP67, 11W/m, 1460 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	Bridges

Image

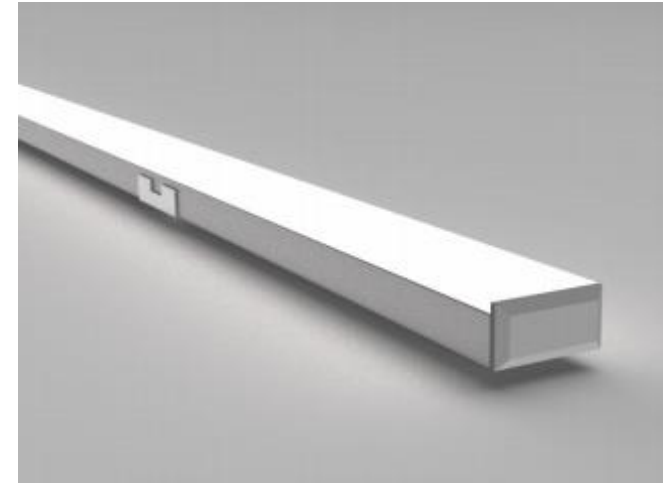


Dimensions

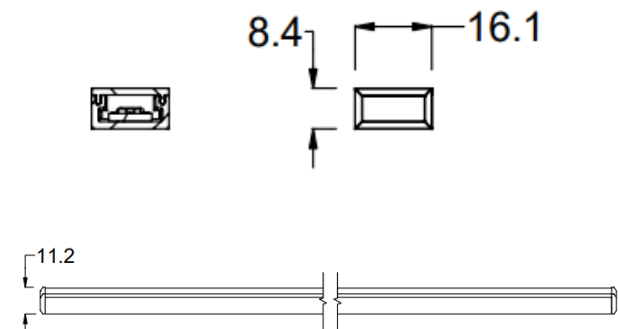


Fitting type	L1
Manufacturer/Ref	Kemps Lighting, PROTEUS-M - Linear LED, PRO-M-7-830-O-67-F
Accessory	Fixed bracketss, switched remote transformers / power supplies required.
Contact	Name Nick Rockliff Office 0113 263 9039 Mobile 07841 464827 Email: NickRockliff@kempslighting.com Manufacturer :
Lamp	Description : LED 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

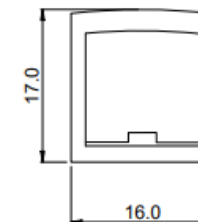


Fitting type	L2
Manufacturer/Ref	Kemps Lighting, FLEXUS 3 FX3-830-VB-1E
Accessory	surface mount fixing clips, mounting clips to be located at 100mm intervals along continuous luminaire runs, switched remote transformers / power supplies required.
Contact	Name Nick Rockliff Office 0113 263 9039 Mobile 07841 464827 Email: NickRockliff@kempslighting.com Manufacturer :
Lamp	Description : LED 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

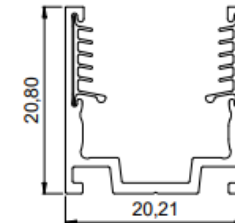
Image



Dimensions



**FX3 Cross
Section**



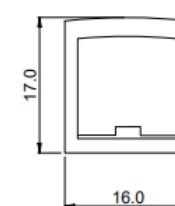
**Serrated
Aluminium Profile**

Fitting type	L3
Manufacturer/Ref	Kemps Lighting, FLEXUS 3 FX3-830-HB-1E
Accessory	surface mount fixing clips, mounting clips to be located at 100mm intervals along continuous luminare runs, switched remote transformers / power supplies required.
Contact	Name Nick Rockliff Office 0113 263 9039 Mobile 07841 464827 Email: NickRockliff@kempslighting.com Manufacturer :
Lamp	Description : LED Lamp colour : 3000K No. lamps : multiple
Luminaire description	IP65,15W/m, 450 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	Benches

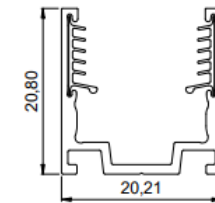
Image



Dimensions



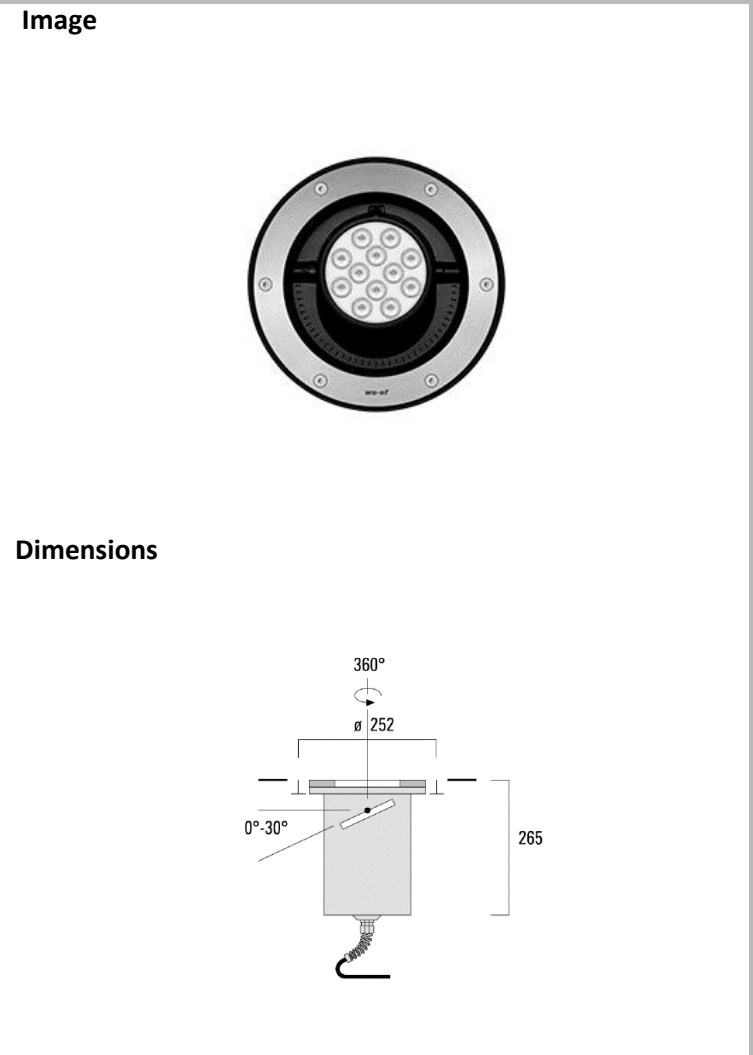
**FX3 Cross
Section**



**Serrated
Aluminium Profile**

Horizontal Bend

Fitting type	U1
Manufacturer/Ref	We-ef/ETC130 185-2446
Accessory	Switched transformer required. Installation blockout for installation, antislip fritted cover glass.
Contact	Name Ryan Wood Office 0844 8805346 Mobile 07803 630370 Email: r.wood@we-ef.com Manufacturer :
Lamp	Description : LED Lamp colour : 3000K No. lamps : multiple
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



Fitting type	W1
Manufacturer/Ref	Whitecroft - Spectre Wall
Accessory	
Contact	Name Whitecroft Lighting Office (0)161 330 6811 Mobile Email: email@whitecroftlight.com Manufacturer :
Lamp	Description : LED Lamp colour : 3000K No. lamps : multiple
Luminaire description	IP 65, Surface mounted wall light, 45.6W, 2663 lumens, 3000K, direct/indirect, switched driver.
	Electrical engineer to confirm compatibility between control gear / transformer and lighting control system.
Appearance	RAL 7021
Notes	CRI 80
Location	Building mounted

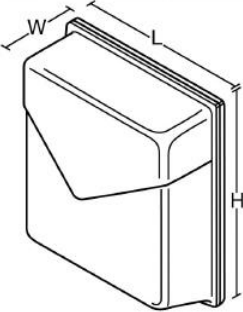


Fitting type	W2
Manufacturer/Ref	Whitecroft - Centurion L65 CENLH14K
Accessory	
Contact	Name Whitecroft Lighting Office (0)161 330 6811 Mobile Email: email@whitecroftlight.com Manufacturer :
Lamp	Description : LED Lamp colour : 4000K No. lamps : multiple
Luminaire description	IP 65, Surface mounted wall light, 12W, 890 lumens, 4000K, switched driver. IK09. Switching via local PIR sensor. Weight 2.2kg Electrical engineer to confirm compatibility between control gear / transformer and lighting control system.
Appearance	Black
Notes	CRI 80+
Location	Building mounted

Image



Dimensions



H=152mm
L=315mm
W=260mm

Fitting type	Lighting Control Performance Specification
Manufacturer/Ref	Architainment / Dynalite lighting control system
Accessory	Astronomical Timeclock, daylight Photocell monitoring, manual override push button controller panel
Contact	Name Sraboni Das Office +44 (0) 1494 471340 Mobile +44 (0) 7908 057 817 Email Sraboni.das@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 via 3no. daylight tracking photocell sensors with the control system also having the capability of astronomical timeclock input for the accent lighting elements. Additionally an 8 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 swtiched on together. Accent lighting (facade and tree lighting) will be switched off via timeclock at 11pm. Zone 1-4 are areas to allow individual control of the lighting for events as set out by Engine No 4, all lighting within each zone will have the ability to be switched on/off via manual wall switches located within security building. 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 circuits to be via 2no. external feebder pillars - north and south of the river. Local control for circuitry override to be from within these feeder pillars - refer to BH documentation for further details. All networking, communucation and gateway modules to be supplied if an interface is required with existing building control - contractor to confirm requirements. Control system will require enclosure to house all module components. Control/button plates and revelant communication modules required for manual override, contractor to confirm requirements and location prior to order.
Location	