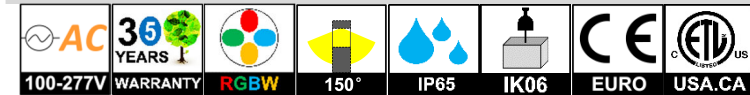
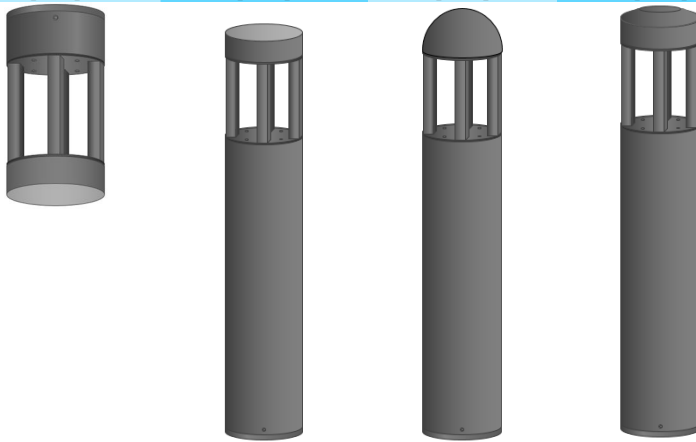


**GTG5121A-MCA: ROUND LED GARDEN LIGHT**

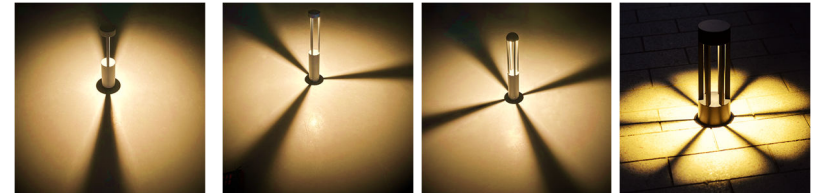
**INTRODUCTION**



[MTF] Flat Roof	[MTF] Flat Roof	[MTD] Dome Roof	[MTT] Tilt Roof
[FFS]	[PSA]	[PSA]	[PSA]



[FLC] COLUMN [FLC2C180D]	CUSTOM QUANTITY & LENGTH		FLC6C60D
	FLC3C120D	FLC4C90D	



**FEATURE**

Perfect Luminaires for Driveways and Footpaths  
Pleasantly Uniform Light Effects  
Suitable for Areas Without Risk of Vandalism  
Long Lifespan >50,000hours  
Working Temperature: -30°C~50°C

**MAIN MATERIAL**

LED Brand: GUBO  
Driver Brand: GUBO  
Housing: Aluminum Profile  
Optics: Nano Opal PCB Reflecting  
Diffuser: Clear Glass Diffuser

**INSTALLATION**

Suitable for Garden, Park, Plaza.....  
[FFS]: Flush Surface Mounted  
[FPS]: Stem Pendant  
[FPC]: Catenary Pendant  
[FWA]: Wall Surface Mounted  
[FWH]: Updown Lighting Wall Surface Mounted  
[FSC]: Slip Fitter Mounted  
[FJP]: Fixing Plate on JBOX/Outlet Box  
[PSA]: Aluminum Straight Bollard

**NOTES:** Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.

**STANDARD**




Designed and Manufactured to Comply with CE/RoHS/TUV/CB/cETL/SAA Standard  
IP65 Protection, Class I Electric

**CUSTOM OPTION**

LED CCT: 1,600K~10,000K/R/G/B/Y  
[CRI]: [E] RA80, [G] RA90, [H] RA97(RG0)  
[WM40C]: Working Temperature -40°C~50°C

[SFH]: Custom Housing Finish by RAL Code

WHITE RAL9010P	BLACK RAL9005P	DARK GREY RAL7016P	GREY RAL7043P	PEARL GREY RAL9022P
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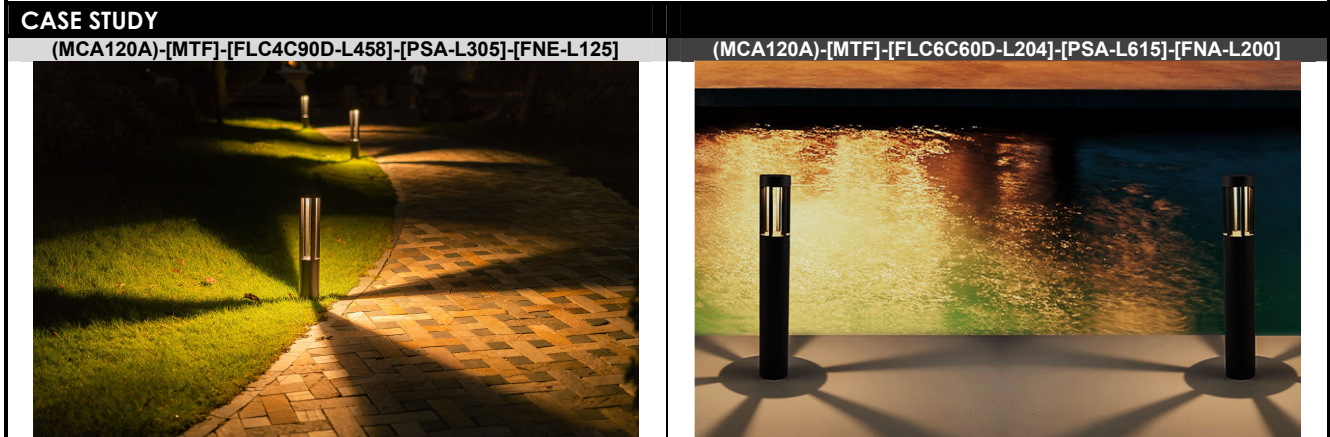
MODEL	POWER [W]	LED TYPE	CCT [K]		CRI	FLUX [LM]	POWER FACTOR	BEAM ANGLE	CUSTOM DIMMING	INPUT [V]
GTG5121A-MCA120A	20W [12W]	CXM-9 COB	E2700K	RA80	1600	>0.9	120°	<b>Remote Driver [Inside Bollard]</b> [CDN]:Non-dimmable [CDT]:TRIAC(10%) [CDV]:0/1~10V(8%) [CDV0]:0~10V(1%) [CDV1]:1~10V(10%) [CDA]:DALI(1%) [+CDP]:PWM(1%) [+CDX]:DMX512(1%) [+CDS]:SPI(1%)  <b>Following [Sensor]</b> [CSL]: Photocell Lux Sensor  [CSPD]: Big-level PIR Motion Sensor  [CSMD]: Big-level Microwave Motion Sensor   <b>Following by Remote Driver [Outside Fixture]</b> [CRZ]:ZIGBEE(1%) [CRF]:2.4G RF(1%) [CRB]:Bluetooth(1%)	AC100~277V [AC100~240V] [AC100~347V] 50/60Hz  [+CV DC12V] [+CV DC24V] [+CV DC42V]	
			E3000K	RA80	1640					
			E3500K	RA80	1640					
			E4000K	RA80	1700					
			E5000K	RA80	1700					
	20W [12W]	CXM-9 COB	G2200K	RA90	1100	>0.9	120°			
			G2500K	RA90	1230					
			G2700K	RA90	1300					
			G3000K	RA90	1360					
			G3500K	RA90	1360					
	2C@20W	TWG	G2700K	G6500K	RA90	1300	>0.9			120°
		4C@20W	RGBW	620nm 520nm 465nm G2700K	\	1300	>0.9			
4C@20W	RGBA	620nm 520nm 465nm 590nm	\	1300	>0.9					
GTG5121A-MCA160A	50W [40W] [30W] [20W]	CXM-14 COB	E2700K	RA80	3850	>0.9	120°			
			E3000K	RA80	3930					
			E3500K	RA80	3930					
			E4000K	RA80	4060					
			E5000K	RA80	4060					
	50W [40W] [30W] [20W]	CXM-14 COB	G2200K	RA90	2670	>0.9		120°		
			G2500K	RA90	2960					
			G2700K	RA90	3120					
			G3000K	RA90	3250					
			G3500K	RA90	3250					
	2C@50W	TWG	G2700K	G6500K	RA90	3120		>0.9	120°	
		4C@50W	RGBW	620nm 520nm 465nm G2700K	\	3120		>0.9		
4C@50W	RGBA	620nm 520nm 465nm 590nm	\	3120	>0.9					

**NOTE:**

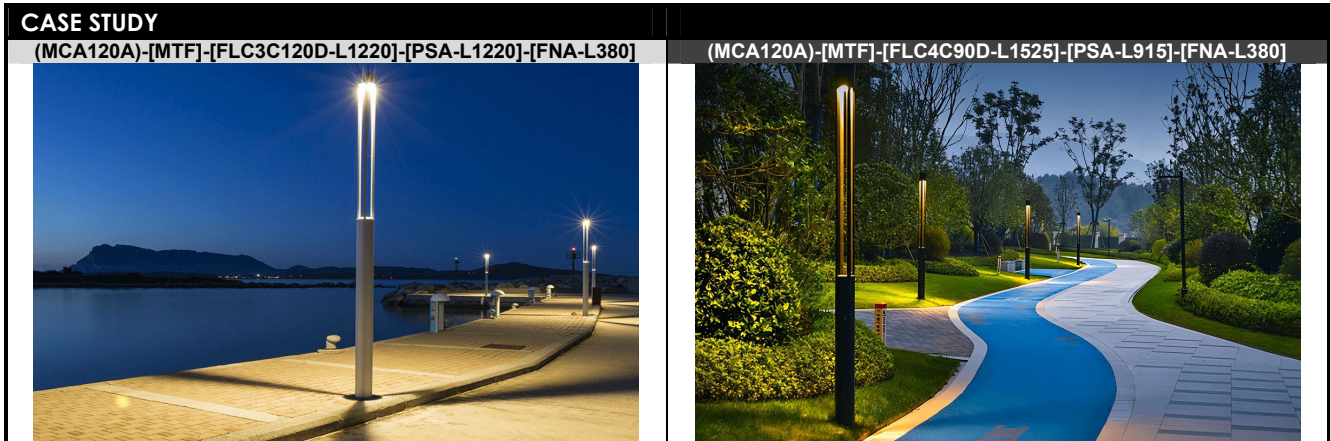
All parameters are measured at 25°C ambient temperature, 35% humidity experimental environment.  
Tolerances of power and luminous flux are ±10%, tolerance of color rendering index is ±5.

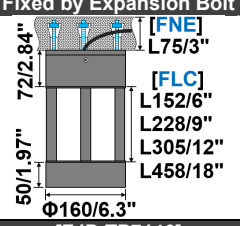

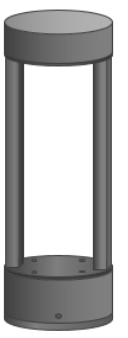
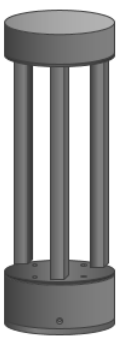

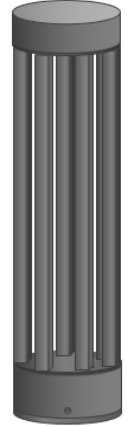
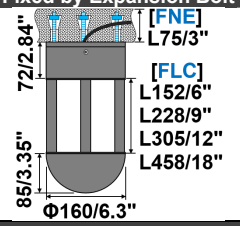

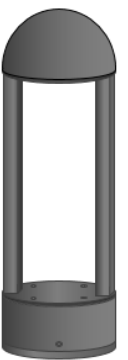
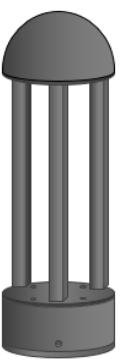
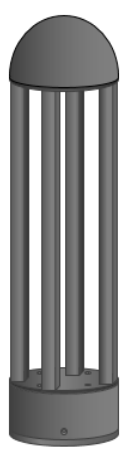
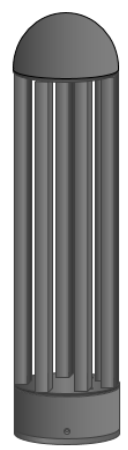
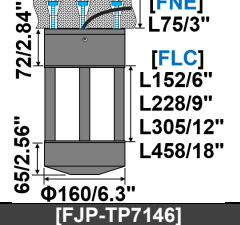

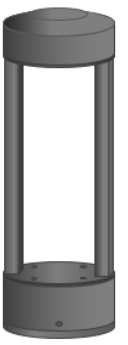
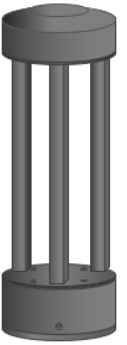
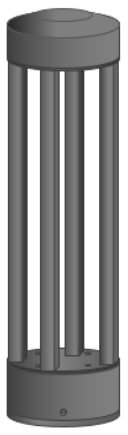
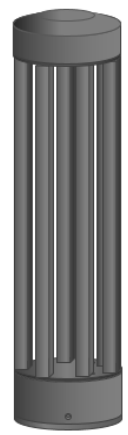
<b>(MCA120A)-[FFS] Surface Mounted Light</b>					
NOTES:		Customs Engraved Pattern and [BGL] Glare shield Referred to Another Specifications.			
NOTES:		Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.			
NOTES:		Total Height need be lower than 610mm/24"			
<b>(MCA120A)-[MTF]</b>				<b>DIMENSION:[UNIT: MM]</b>	<b>CASE STUDY</b>
[FLC2C180D] L305	[FLC3C120D] L305	[FLC4C90D] L127	[FLC6C60D] L458	[FNE-L75] Fixed by Expansion Bolt	[FLC4C90D]-L127 Wall Surface Mounted
				 [FNE] L75/3" [FLC] L127/5" L204/8" L305/12" L458/18" L610/24" 61/2.1" 30/1.2" Φ120/4.72" [FJP-TP7146] Fixed On Outlet Box	
<b>(MCA120A)-[MTD]</b>				<b>DIMENSION:[UNIT: MM]</b>	<b>CASE STUDY: DC24V Version</b>
[FLC2C180D] L305	[FLC3C120D] L305	[FLC4C90D] L458	[FLC6C60D] L458	[FNE-L75] Fixed by Expansion Bolt	[FLC6C60D]-L305 Ground Mounted
				 [FNE] L75/3" [FLC] L127/5" L204/8" L305/12" L458/18" L610/24" 61/2.1" 58/2.28" Φ120/4.72" [FJP-TP7146] Fixed On Outlet Box	
<b>(MCA120A)-[MTT]</b>				<b>DIMENSION:[UNIT: MM]</b>	<b>CASE STUDY</b>
[FLC2C180D] L305	[FLC3C120D] L305	[FLC4C90D] L458	[FLC6C60D] L458	[FNE-L75] Fixed by Expansion Bolt	[FLC4C90D]-L305 Wall Surface Mounted
				 [FNE] L75/3" [FLC] L127/5" L204/8" L305/12" L458/18" L610/24" 61/2.1" 46/1.8" Φ120/4.72" [FJP-TP7146] Fixed On Outlet Box	

(MCA120A)-[PSA] Bollard Light				DIMENSION:[UNIT: MM]	
NOTES:		Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.			
NOTES:		Total Height need be lower than 1610mm/64"			
(MCA120A)-[MTF]				DIMENSION:[UNIT: MM]	
[FLC2C180D] L305	[FLC3C120D] L305	[FLC4C90D] L127	[FLC6C60D] L458	[FNE-L125] Fixed by Expansion Bolts	[FNA-L200] Fixed by Pre-buried Anchor
				<p> <math>\Phi 120/4.72"</math>            30/1.2"            [FLC]            L127/5"            L204/8"            L305/12"            L458/18"            L610/24"            L915/36"            [PSA]            L127/5"            L204/8"            L305/12"            L458/18"            L610/24"            L915/36"            [FNE]            L125/5"            [PAVERS]            5/0.2"         </p>	<p> <math>\Phi 120/4.72"</math>            30/1.2"            [FLC]            L127/5"            L204/8"            L305/12"            L458/18"            L610/24"            L915/36"            [PSA]            L127/5"            L204/8"            L305/12"            L458/18"            L610/24"            L915/36"            [FNA]            L200/8"            [PAVERS]            5/0.24"         </p>
(MCA120A)-[MTD]				DIMENSION:[UNIT: MM]	
[FLC2C180D] L305	[FLC3C120D] L305	[FLC4C90D] L127	[FLC6C60D] L458	[FNE-L125] Fixed by Expansion Bolts	[FNA-L200] Fixed by Pre-buried Anchor
				<p> <math>\Phi 120/4.72"</math>            58/2.3"            [FLC]            L127/5"            L204/8"            L305/12"            L458/18"            L610/24"            L915/36"            [PSA]            L127/5"            L204/8"            L305/12"            L458/18"            L610/24"            L915/36"            [FNE]            L125/5"            [PAVERS]            5/0.2"         </p>	<p> <math>\Phi 120/4.72"</math>            58/2.3"            [FLC]            L127/5"            L204/8"            L305/12"            L458/18"            L610/24"            L915/36"            [PSA]            L127/5"            L204/8"            L305/12"            L458/18"            L610/24"            L915/36"            [FNA]            L200/8"            [PAVERS]            5/0.2"         </p>
(MCA120A)-[MTT]				DIMENSION:[UNIT: MM]	
[FLC2C180D] L305	[FLC3C120D] L305	[FLC4C90D] L127	[FLC6C60D] L458	[FNE-L125] Fixed by Expansion Bolts	[FNA-L200] Fixed by Pre-buried Anchor
				<p> <math>\Phi 120/4.72"</math>            46/1.8"            [FLC]            L127/5"            L204/8"            L305/12"            L458/18"            L610/24"            L915/36"            [PSA]            L127/5"            L204/8"            L305/12"            L458/18"            L610/24"            L915/36"            [FNE]            L125/5"            [PAVERS]            5/0.2"         </p>	<p> <math>\Phi 120/4.72"</math>            46/1.8"            [FLC]            L127/5"            L204/8"            L305/12"            L458/18"            L610/24"            L915/36"            [PSA]            L127/5"            L204/8"            L305/12"            L458/18"            L610/24"            L915/36"            [FNA]            L200/8"            [PAVERS]            5/0.2"         </p>







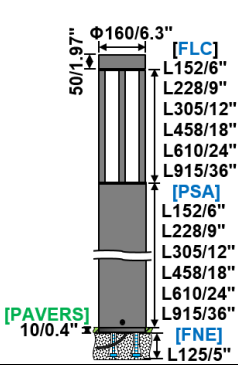
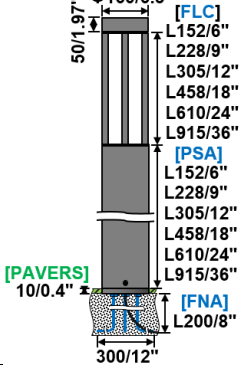




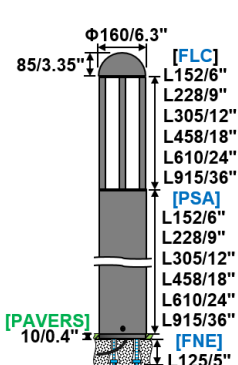
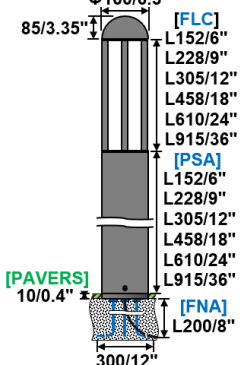




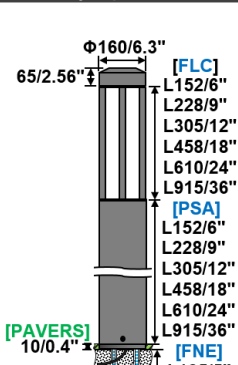
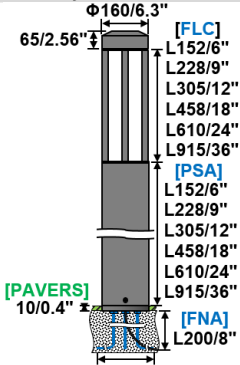
(MCA120A)-[PSA] Tall Bollard Light					
NOTES:		Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.			
NOTES:		Total Height need be lower than 2850mm/112"			
(MCA120A)-[MTF]				DIMENSION:[UNIT: MM]	
[FLC2C180D] L915	[FLC3C120D] L458	[FLC4C90D] L1220	[FLC6C60D] L1220	[FNE-L200] Fixed by Expansion Bolts	[FNA-L380] Fixed by Pre-buried Anchor
				<p>Φ120/4.72" 30/1.2" [FLC] L458/18" L610/24" L915/36" L1220/48" L1525/60" L1830/72" [PSA] L458/18" L610/24" L915/36" L1220/48" L1525/60" L1830/72" [PAVERS] 5/0.2" [FNE] L200/8"</p>	<p>Φ120/4.72" 30/1.2" [FLC] L458/18" L610/24" L915/36" L1220/48" L1525/60" L1830/72" [PSA] L458/18" L610/24" L915/36" L1220/48" L1525/60" L1830/72" [PAVERS] 5/0.2" [FNA] L380/15" 300/12"</p>
(MCA120A)-[MTD]				DIMENSION:[UNIT: MM]	
[FLC2C180D] L915	[FLC3C120D] L458	[FLC4C90D] L1220	[FLC6C60D] L1220	[FNE-L200] Fixed by Expansion Bolts	[FNA-L380] Fixed by Pre-buried Anchor
				<p>Φ120/4.72" 58/2.3" [FLC] L458/18" L610/24" L915/36" L1220/48" L1525/60" L1830/72" [PSA] L458/18" L610/24" L915/36" L1220/48" L1525/60" L1830/72" [PAVERS] 5/0.2" [FNE] L200/8"</p>	<p>Φ120/4.72" 58/2.3" [FLC] L458/18" L610/24" L915/36" L1220/48" L1525/60" L1830/72" [PSA] L458/18" L610/24" L915/36" L1220/48" L1525/60" L1830/72" [PAVERS] 5/0.2" [FNA] L380/15" 300/12"</p>
(MCA120A)-[MTT]				DIMENSION:[UNIT: MM]	
[FLC2C180D] L915	[FLC3C120D] L458	[FLC4C90D] L1220	[FLC6C60D] L1220	[FNE-L200] Fixed by Expansion Bolts	[FNA-L380] Fixed by Pre-buried Anchor
				<p>Φ120/4.72" 46/1.8" [FLC] L458/18" L610/24" L915/36" L1220/48" L1525/60" L1830/72" [PSA] L458/18" L610/24" L915/36" L1220/48" L1525/60" L1830/72" [PAVERS] 5/0.2" [FNE] L200/8"</p>	<p>Φ120/4.72" 46/1.8" [FLC] L458/18" L610/24" L915/36" L1220/48" L1525/60" L1830/72" [PSA] L458/18" L610/24" L915/36" L1220/48" L1525/60" L1830/72" [PAVERS] 5/0.2" [FNA] L380/15" 300/12"</p>



(MCA160A)-[FFS] Surface Mounted Light					DIMENSION:[UNIT: MM] [FNE-L75] Fixed by Expansion Bolt 	CASE STUDY [FLC4C90D]-L228 Wall Surface Mounted 
NOTES: Customs Engraved Pattern and [BGL] Glare shield Referred to Another Specifications. NOTES: Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits. NOTES: Total Height need be lower than 610mm/24"						
[FLC2C180D] L305	[FLC3C120D] L305	[FLC4C90D] L152	[FLC6C60D] L458			
						
(MCA160A)-[MTD]					DIMENSION:[UNIT: MM] [FNE-L75] Fixed by Expansion Bolt 	CASE STUDY: DC24V Version [FLC2C180D]-L228 Ground Mounted 
NOTES: Customs Engraved Pattern and [BGL] Glare shield Referred to Another Specifications. NOTES: Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits. NOTES: Total Height need be lower than 610mm/24"						
[FLC2C180D] L305	[FLC3C120D] L305	[FLC4C90D] L458	[FLC6C60D] L458			
						
(MCA160A)-[MTT]					DIMENSION:[UNIT: MM] [FNE-L75] Fixed by Expansion Bolt 	CASE STUDY: DC24V Version [FLC2C180D]-L228 Wall Surface Mounted 
NOTES: Customs Engraved Pattern and [BGL] Glare shield Referred to Another Specifications. NOTES: Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits. NOTES: Total Height need be lower than 610mm/24"						
[FLC2C180D] L305	[FLC3C120D] L305	[FLC4C90D] L458	[FLC6C60D] L458			
						

(MCA160A)-[PSA] Bollard Light

NOTES: Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.  
 NOTES: Total Height need be lower than 1610mm/64"

(MCA160A)-[MTF]				DIMENSION:[UNIT: MM]	
[FLC2C180D] L305	[FLC3C120D] L305	[FLC4C90D] L127	[FLC6C60D] L458	[FNE-L125] Fixed by Expansion Bolts	[FNA-L200] Fixed by Pre-buried Anchor
				 <p>50/1.97"  <math>\Phi</math>160/6.3"                      [FLC]                      L152/6"                      L228/9"                      L305/12"                      L458/18"                      L610/24"                      L915/36"                      [PSA]                      L152/6"                      L228/9"                      L305/12"                      L458/18"                      L610/24"                      L915/36"                      [FNE]                      L125/5"                      [PAVERS]                      10/0.4"</p>	 <p>50/1.97"  <math>\Phi</math>160/6.3"                      [FLC]                      L152/6"                      L228/9"                      L305/12"                      L458/18"                      L610/24"                      L915/36"                      [PSA]                      L152/6"                      L228/9"                      L305/12"                      L458/18"                      L610/24"                      L915/36"                      [FNA]                      L200/8"                      [PAVERS]                      10/0.4"                      300/12"</p>
(MCA160A)-[MTD]				DIMENSION:[UNIT: MM]	
[FLC2C180D] L305	[FLC3C120D] L305	[FLC4C90D] L127	[FLC6C60D] L458	[FNE-L125] Fixed by Expansion Bolts	[FNA-L200] Fixed by Pre-buried Anchor
				 <p>85/3.35"  <math>\Phi</math>160/6.3"                      [FLC]                      L152/6"                      L228/9"                      L305/12"                      L458/18"                      L610/24"                      L915/36"                      [PSA]                      L152/6"                      L228/9"                      L305/12"                      L458/18"                      L610/24"                      L915/36"                      [FNE]                      L125/5"                      [PAVERS]                      10/0.4"</p>	 <p>85/3.35"  <math>\Phi</math>160/6.3"                      [FLC]                      L152/6"                      L228/9"                      L305/12"                      L458/18"                      L610/24"                      L915/36"                      [PSA]                      L152/6"                      L228/9"                      L305/12"                      L458/18"                      L610/24"                      L915/36"                      [FNA]                      L200/8"                      [PAVERS]                      10/0.4"                      300/12"</p>
(MCA160A)-[MTT]				DIMENSION:[UNIT: MM]	
[FLC2C180D] L305	[FLC3C120D] L305	[FLC4C90D] L127	[FLC6C60D] L458	[FNE-L125] Fixed by Expansion Bolts	[FNA-L200] Fixed by Pre-buried Anchor
				 <p>65/2.56"  <math>\Phi</math>160/6.3"                      [FLC]                      L152/6"                      L228/9"                      L305/12"                      L458/18"                      L610/24"                      L915/36"                      [PSA]                      L152/6"                      L228/9"                      L305/12"                      L458/18"                      L610/24"                      L915/36"                      [FNE]                      L125/5"                      [PAVERS]                      10/0.4"</p>	 <p>65/2.56"  <math>\Phi</math>160/6.3"                      [FLC]                      L152/6"                      L228/9"                      L305/12"                      L458/18"                      L610/24"                      L915/36"                      [PSA]                      L152/6"                      L228/9"                      L305/12"                      L458/18"                      L610/24"                      L915/36"                      [FNA]                      L200/8"                      [PAVERS]                      10/0.4"                      300/12"</p>

CASE STUDY

(MCA160A)-[MTF]-[FLC3C120D-L610]-[PSA-L305]-[FNE-L125]



(MCA160A)-[MTF]-[FLC6C60D-L204]-[PSA-L615]-[FNA-L200]



(MCA160A)-[PSA] Tall Bollard Light					
NOTES:		Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.			
NOTES:		Total Height need be lower than 2850mm/112"			
(MCA160A)-[MTF]				DIMENSION:[UNIT: MM]	
[FLC2C180D] L915	[FLC3C120D] L458	[FLC4C90D] L1220	[FLC6C60D] L1220	[FNE-L250] Fixed by Expansion Bolts	[FNA-L450] Fixed by Pre-buried Anchor
				<p>50/1.97" <math>\Phi</math>160/6.3"                      [FLC]                      L458/18"                      L610/24"                      L915/36"                      L1220/48"                      L1525/60"                      L1830/72"                      [PSA]                      L458/18"                      L610/24"                      L915/36"                      L1220/48"                      L1525/60"                      L1830/72"                      [PAVERS]                      10/0.4"                      [FNE]                      L250/10"</p>	<p>35/1.38" <math>\Phi</math>120/4.72"                      [FLC]                      L458/18"                      L610/24"                      L915/36"                      L1220/48"                      L1525/60"                      L1830/72"                      [PSA]                      L458/18"                      L610/24"                      L915/36"                      L1220/48"                      L1525/60"                      L1830/72"                      [PAVERS]                      6/0.24"                      [FNA]                      L380/15"                      300/12"</p>
(MCA160A)-[MTD]				DIMENSION:[UNIT: MM]	
[FLC2C180D] L915	[FLC3C120D] L458	[FLC4C90D] L1220	[FLC6C60D] L1220	[FNE-L250] Fixed by Expansion Bolts	[FNA-L450] Fixed by Pre-buried Anchor
				<p>85/3.35" <math>\Phi</math>160/6.3"                      [FLC]                      L458/18"                      L610/24"                      L915/36"                      L1220/48"                      L1525/60"                      L1830/72"                      [PSA]                      L458/18"                      L610/24"                      L915/36"                      L1220/48"                      L1525/60"                      L1830/72"                      [PAVERS]                      10/0.4"                      [FNE]                      L250/10"</p>	<p>85/3.35" <math>\Phi</math>160/6.3"                      [FLC]                      L458/18"                      L610/24"                      L915/36"                      L1220/48"                      L1525/60"                      L1830/72"                      [PSA]                      L458/18"                      L610/24"                      L915/36"                      L1220/48"                      L1525/60"                      L1830/72"                      [PAVERS]                      10/0.4"                      [FNA]                      L450/18"                      300/12"</p>
(MCA160A)-[MTT]				DIMENSION:[UNIT: MM]	
[FLC2C180D] L915	[FLC3C120D] L458	[FLC4C90D] L1220	[FLC6C60D] L1220	[FNE-L250] Fixed by Expansion Bolts	[FNA-L450] Fixed by Pre-buried Anchor
				<p>65/2.56" <math>\Phi</math>160/6.3"                      [FLC]                      L458/18"                      L610/24"                      L915/36"                      L1220/48"                      L1525/60"                      L1830/72"                      [PSA]                      L458/18"                      L610/24"                      L915/36"                      L1220/48"                      L1525/60"                      L1830/72"                      [PAVERS]                      10/0.4"                      [FNE]                      L250/10"</p>	<p>65/2.56" <math>\Phi</math>160/6.3"                      [FLC]                      L458/18"                      L610/24"                      L915/36"                      L1220/48"                      L1525/60"                      L1830/72"                      [PSA]                      L458/18"                      L610/24"                      L915/36"                      L1220/48"                      L1525/60"                      L1830/72"                      [PAVERS]                      10/0.4"                      [FNA]                      L450/18"                      300/12"</p>

CASE STUDY	
<p>(MCA160A)-[MTF]-[FLC3C120D-L1220]-[PSA-L1220]-[FNA-L450]</p>	<p>(MCA160A)-[MTF]-[FLC4C90D-L1525]-[PSA-L1220]-[FNA-L450]</p>