

INTRODUCTION

NIKLAS 22: ROUND LED GAREN LIGHT

FEATURE

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

MAIN MATERIAL

LED Brand: GUBO
 Remote Driver Brand: GUBO
 Housing: Die-casted Aluminum
 Optics: Nano Opal PC Lens
 BGB: Tapering Horn Baffle Reflecting
 Diffuser: Anti-UV PC Opal Diffuser

INSTALLATION

Suitable for Interior & Exterior Lighting
[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

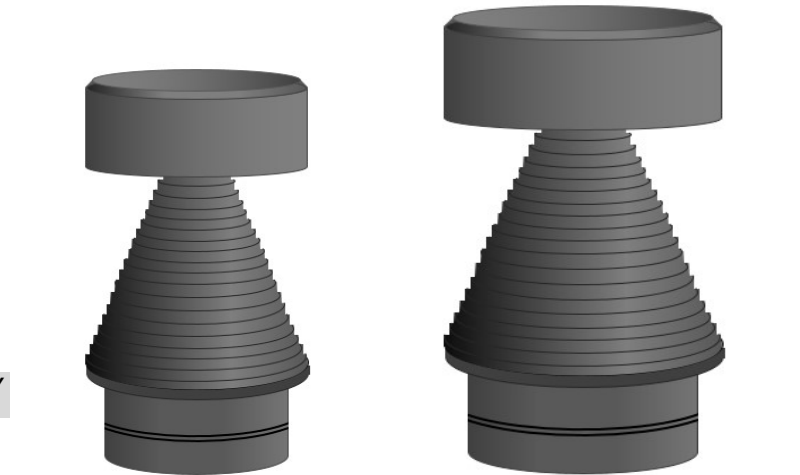
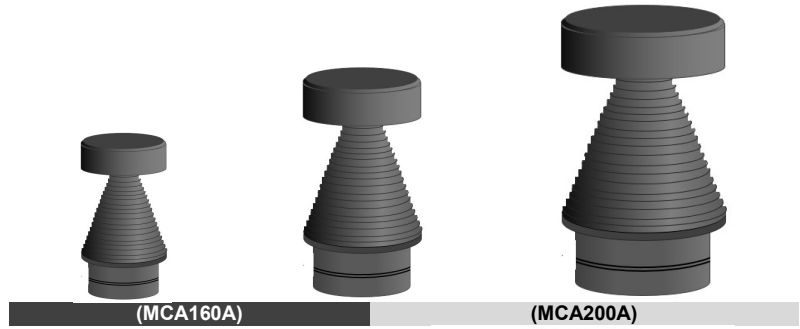
Designed and Manufactured to Comply with CE/RoHS/CB/cETL/SAA/SASO Standard
 IP65 Protection, Class I Electric

CUSTOM OPTIONS

LED CCT: 1,600K~10,000K/R/G/B/Y
 [CRI]: [E] RA80, [G] RA90, [H] RA97(RG0)
 Working Temperature[M40C]: -40°C~50°C
 F1: Custom Housing Finish Colors by RAL Code
 B3: Custom Baffle Finish Colors by RAL Code

WHITE	BLACK	DARK GREY	GREY	PEARL GREY
RAL9010P	RAL9005P	RAL7016P	RAL7043P	RAL9022P

(MCA65A)	(MCA95A)	(MCA125A)					



Custom Grille	Custom Roof Profile		
[BGG]-[PT] Customs Grille with Engraved Mask Pattern	[MTF] Flat Roof	[MTD] Dome Roof	[MTT] Tilt Roof

SPECIFICATION

NIKLAS 22: ROUND LED GAREN LIGHT

MODEL	POWER [W]	LED TYPE	CCT [K]	CRI	FLUX [LM]	POWER FACTOR	BEAM ANGLE	CUSTOM OPTIONAL DIMMING	INPUT [V]
NIKLAS 22-MCA125A MCA95B	20W [15W] [12W]	96x0.5W SMD2835	G2700K	RA90	1150	> 0.9	[BDM] OPAL 150°	Following by Remote Driver [Inside Bollard]	
			G3000K	RA90	1220				
			G3500K	RA90	1220				
			G4000K	RA90	1300				
			G5000K	RA90	1300				
			G6500K	RA90	1270				
	2C@20W	TWG	G2700K	G6500K	RA90	1150		> 0.9	
4C@20W	RGBW	620nm	520nm	465nm	G2700K	\	1150	> 0.9	
NIKLAS 22-MCA160A MCA125B	30W [20W] [15W] [12W]	120x0.5W SMD2835	G2700K	RA90	1610	> 0.9	[BDM] OPAL 150°	Following by Remote Driver [Inside Bollard]	[CDN]:Non-dimmable [CDT]:TRIAC(10%) [CDV]:0/1~10V(8%) [CDV0]:0~10V(1%) [CDV1]:1~10V(10%) [CDA]:DALI(1%) [CDX]:DMX512(1%) [+CDP]:PWM(1%)
			G3000K	RA90	1720				
			G3500K	RA90	1720				
			G4000K	RA90	1820				
			G5000K	RA90	1820				
			G6500K	RA90	1780				
	2C@30W	TWG	G2700K	G6500K	RA90	1610		> 0.9	
4C@30W	RGBW	620nm	520nm	465nm	G2700K	\	1610	> 0.9	
NIKLAS 22-MCA200A MCA125B	40W [30W] [20W]	180x0.5W SMD2835	G2700K	RA90	2310	> 0.9	[BDM] OPAL 150°	Following [Sensor]	AC100~277V [AC100~240V] [AC100~347V] 50/60Hz [+CV DC12V] [+CV DC24V] [+CV DC42V]
			G3000K	RA90	2450				
			G3500K	RA90	2450				
			G4000K	RA90	2600				
			G5000K	RA90	2600				
			G6500K	RA90	2550				
	2C@40W	TWG	G2700K	G6500K	RA90	2310		> 0.9	
4C@40W	RGBW	620nm	520nm	465nm	G2700K	\	2310	> 0.9	
NIKLAS 22-MCA160B MCA200B	60W [50W] [40W] [30W]	240x0.5W SMD2835	G2700K	RA90	3460	> 0.9	[BDM] OPAL 150°	Following by Remote Driver [Outside Bollard]	[CDX]:DMX512(1%) [CDS]:SPI(1%) [CRZ]:ZIGBEE(1%) [CRF]:2.4G RF(1%) [CRB]:Bluetooth(1%)
			G3000K	RA90	3670				
			G3500K	RA90	3670				
			G4000K	RA90	3880				
			G5000K	RA90	3880				
			G6500K	RA90	3820				
	2C@60W	TWG	G2700K	G6500K	RA90	3460		> 0.9	
4C@60W	RGBW	620nm	520nm	465nm	G2700K	\	3460	> 0.9	
NIKLAS 22-MCA200B	80W [60W] [50W] [40W] [30W]	300x0.5W SMD2835	G2700K	RA90	4610	> 0.9	[BDM] OPAL 150°	Following by Remote Driver [Outside Bollard]	[CDX]:DMX512(1%) [CDS]:SPI(1%) [CRZ]:ZIGBEE(1%) [CRF]:2.4G RF(1%) [CRB]:Bluetooth(1%)
			G3000K	RA90	4900				
			G3500K	RA90	4900				
			G4000K	RA90	5180				
			G5000K	RA90	5180				
			G6500K	RA90	5100				
	2C@80W	TWG	G2700K	G6500K	RA90	4610		> 0.9	
4C@80W	RGBW	620nm	520nm	465nm	G2700K	\	4610	> 0.9	

NOTE:

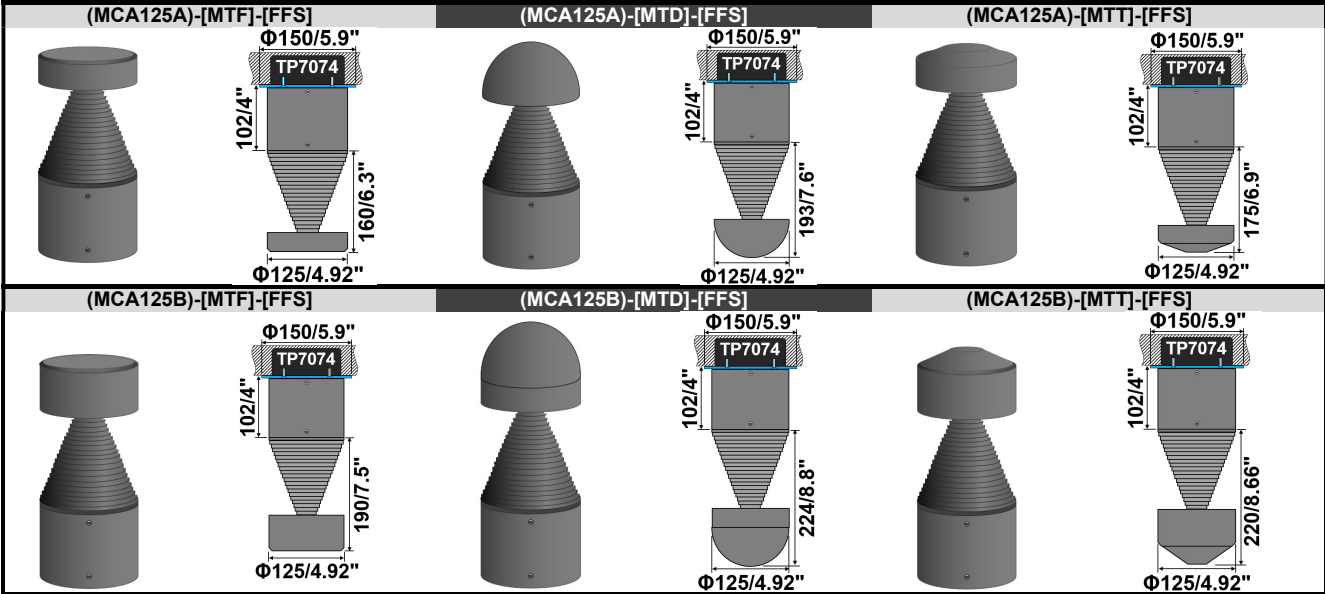
All parameters are measured at 25°C ambient temperature, 35% humidity experimental environment. Tolerances of power and luminous flux are ±10%, tolerance of color rendering index is ±5.

SPECIFICATION

NIKLAS 22: ROUND LED GAREN LIGHT

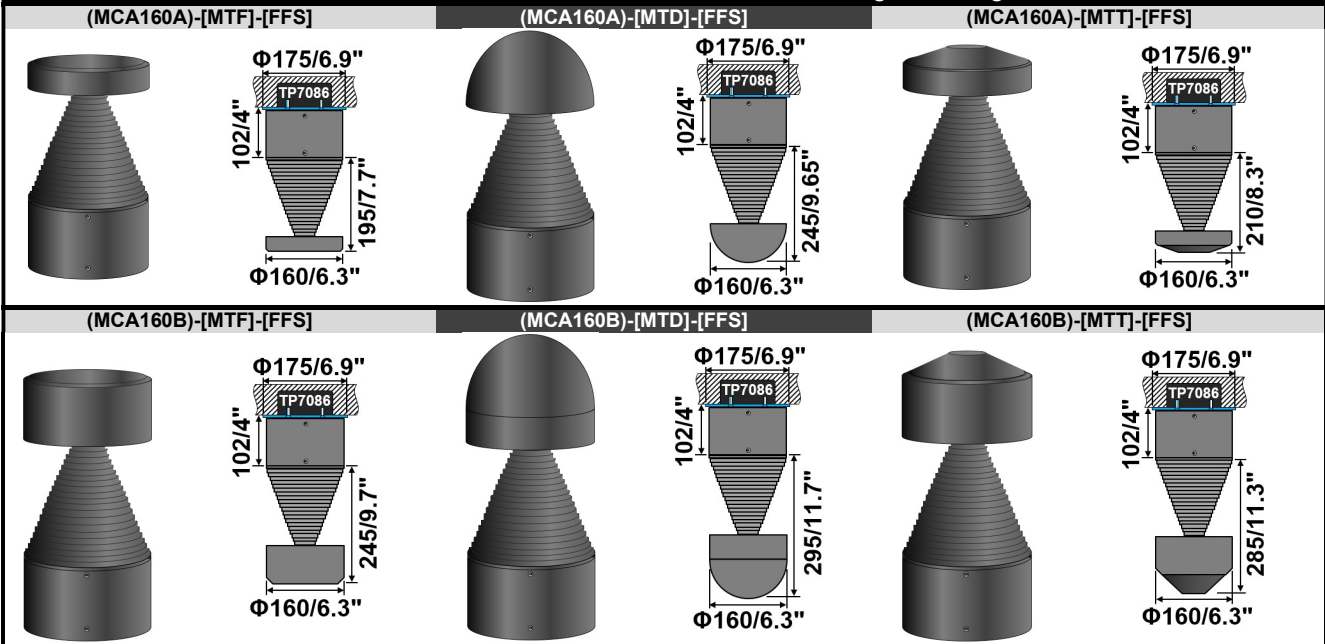
(MCA125)-[FFS]: Flush Surface Mounted Light **DIMENSION:[UNIT: MM]**

NOTES: [BGG] Customs Grille with Engraved Pattern and [BGL] Glare shield Referred to Another Specifications.
 NOTES: Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.



(MCA160)-[FFS]: Flush Surface Mounted Light **DIMENSION:[UNIT: MM]**

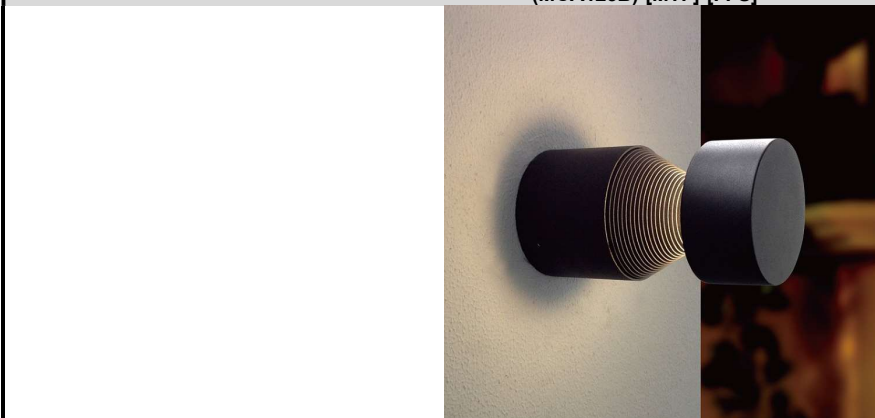
NOTES: [BGG] Customs Grille with Engraved Pattern and [BGL] Glare shield Referred to Another Specifications.
 NOTES: Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.


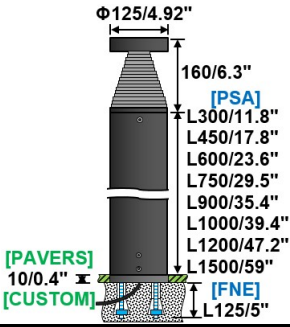
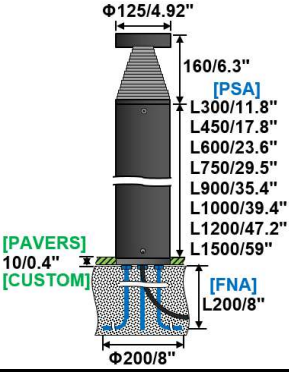


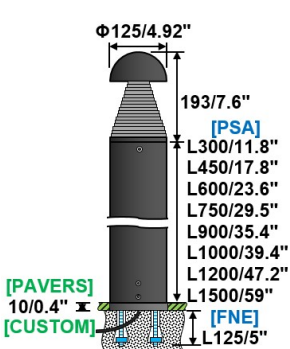
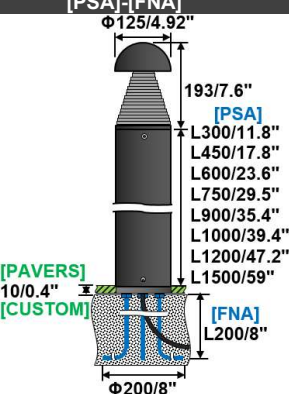

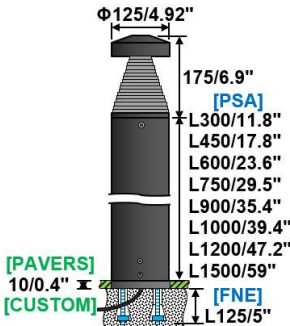
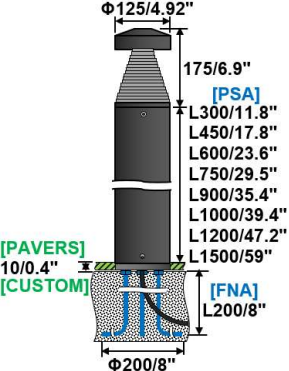



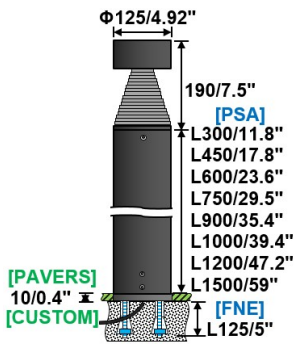
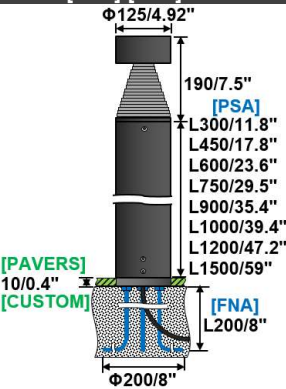


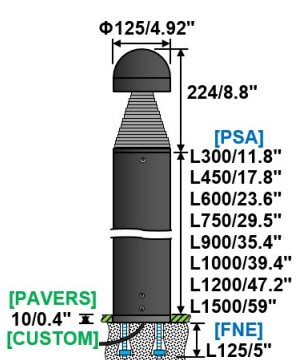
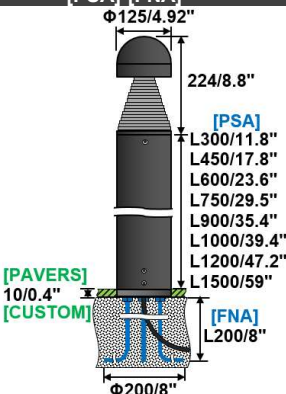

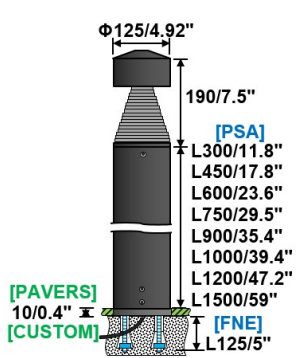
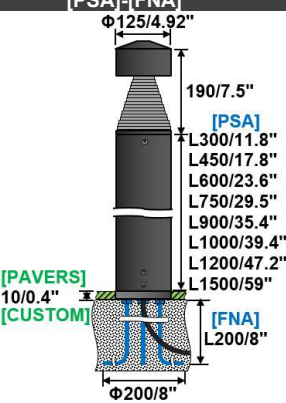
[FFS] Flush Surface Mounted Light


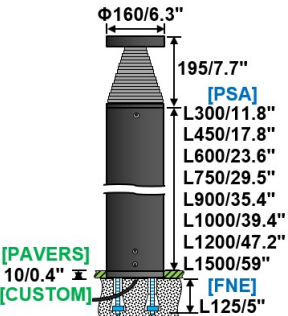
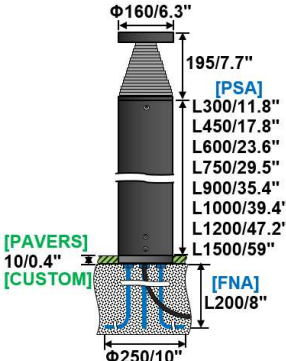
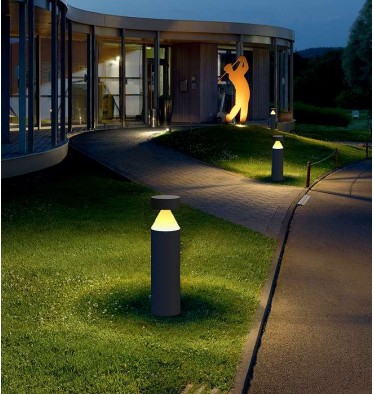

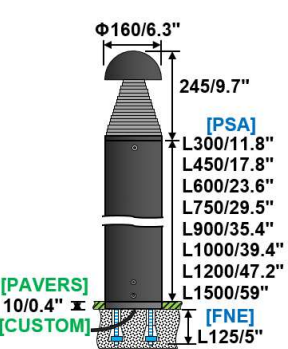
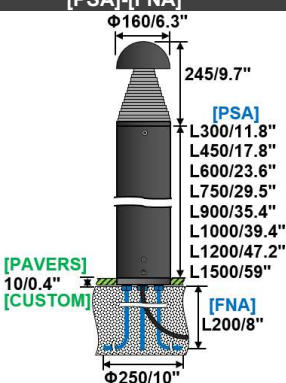
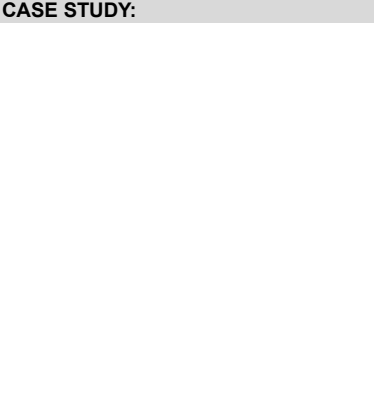

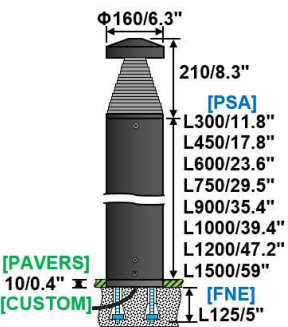
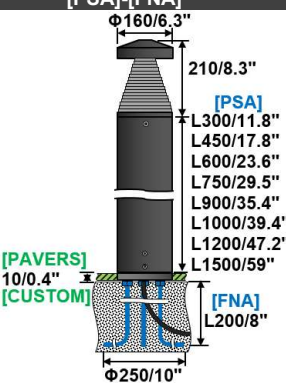

CAST STUDY


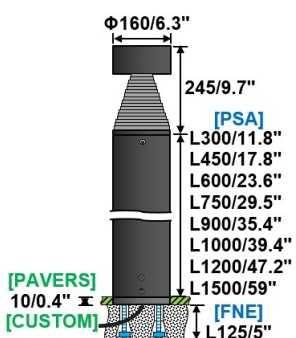
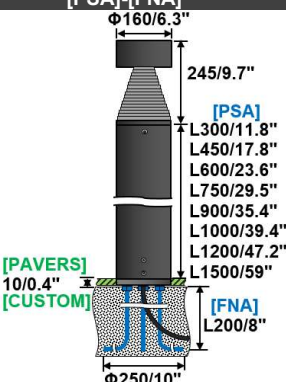

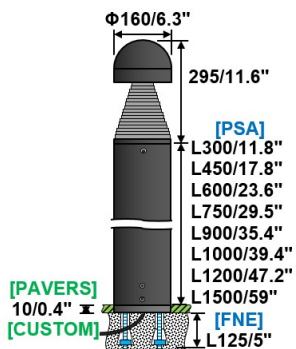
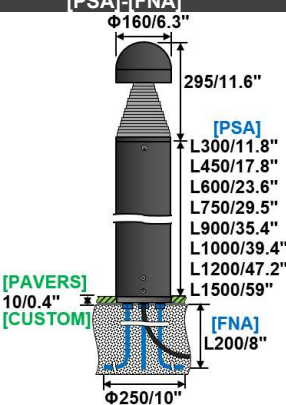

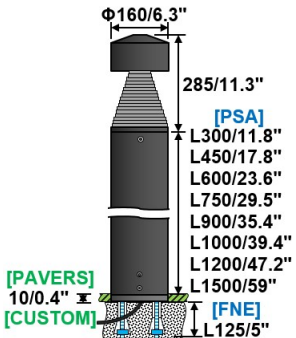
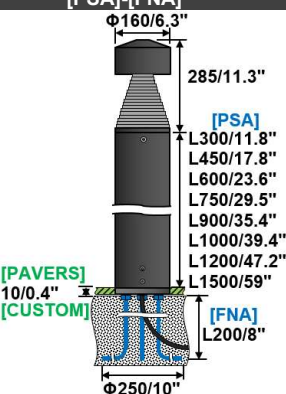

(MCA125B)-[MTF]-[FFS]


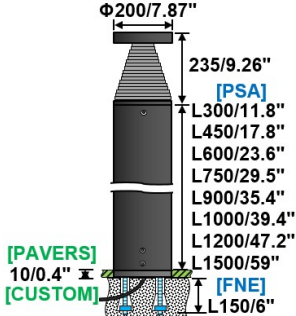
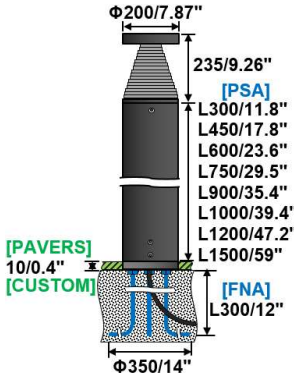


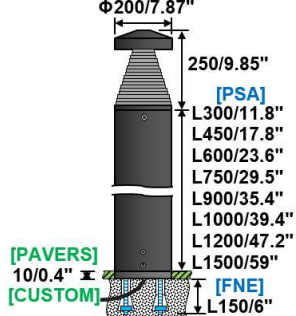
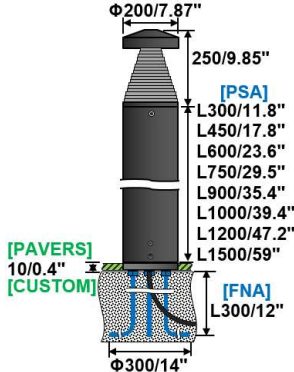
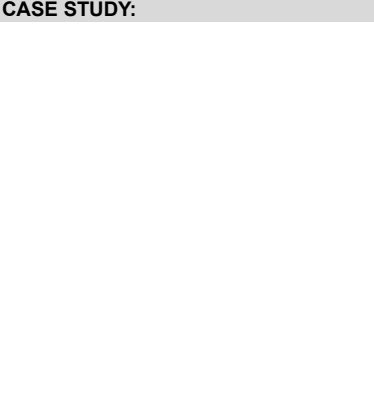
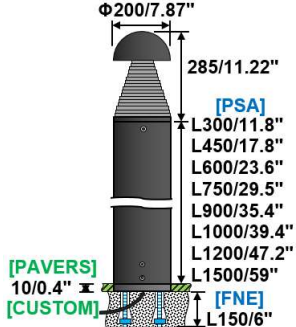
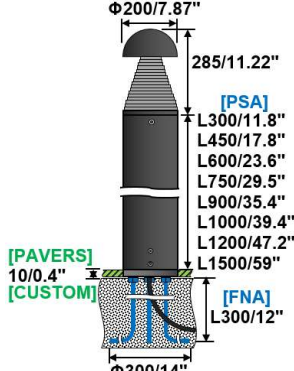




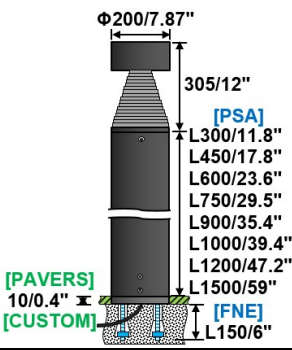
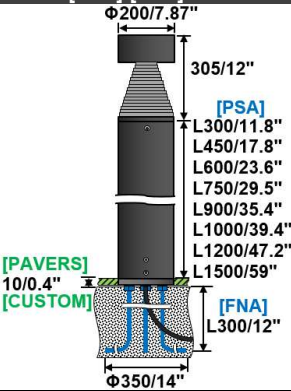

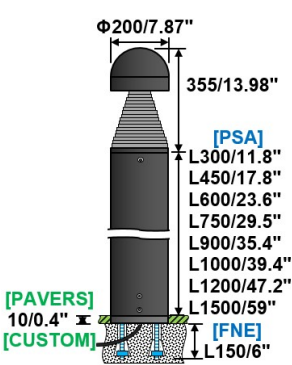
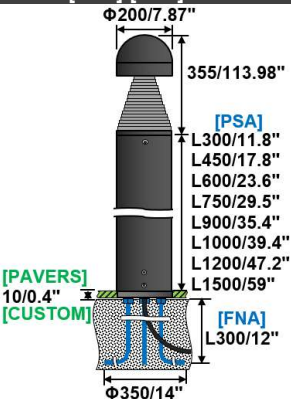

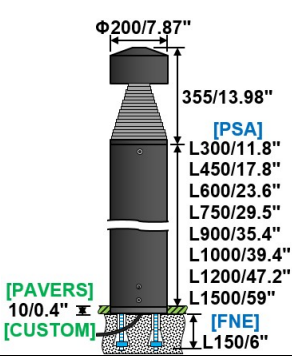
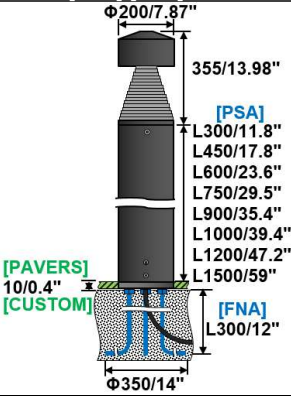
[PSA] MCA125A: Bollard Light			DIMENSION:[UNIT: MM]
NOTES: Customs Engraved Pattern and [BGL] Glare shield Referred to Another Specifications.			
NOTES: Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.			
(MCA125A)-[MTF]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 125/4.92''$ 160/6.3" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNE] L125/5" </p>	 <p> $\Phi 125/4.92''$ 160/6.3" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNA] L200/8" $\Phi 200/8''$ </p>	
(MCA125A)-[MTD]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 125/4.92''$ 193/7.6" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNE] L125/5" </p>	 <p> $\Phi 125/4.92''$ 193/7.6" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNA] L200/8" $\Phi 200/8''$ </p>	
(MCA125A)-[MTT]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 125/4.92''$ 175/6.9" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNE] L125/5" </p>	 <p> $\Phi 125/4.92''$ 175/6.9" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNA] L200/8" $\Phi 200/8''$ </p>	

[PSA] MCA125B: Bollard Light			DIMENSION:[UNIT: MM]
NOTES: Customs Engraved Pattern and [BGL] Glare shield Referred to Another Specifications. NOTES: Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.			
(MCA125B)-[MTF]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 125/4.92''$ 190/7.5" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [FNE] L125/5" [PAVERS] 10/0.4" [CUSTOM] </p>	 <p> $\Phi 125/4.92''$ 190/7.5" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" 10/0.4" [PAVERS] [CUSTOM] [FNA] L200/8" $\Phi 200/8''$ </p>	
(MCA125B)-[MTD]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 125/4.92''$ 224/8.8" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [FNE] L125/5" [PAVERS] 10/0.4" [CUSTOM] </p>	 <p> $\Phi 125/4.92''$ 224/8.8" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" 10/0.4" [PAVERS] [CUSTOM] [FNA] L200/8" $\Phi 200/8''$ </p>	
(MCA125B)-[MTT]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 125/4.92''$ 190/7.5" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [FNE] L125/5" [PAVERS] 10/0.4" [CUSTOM] </p>	 <p> $\Phi 125/4.92''$ 190/7.5" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" 10/0.4" [PAVERS] [CUSTOM] [FNA] L200/8" $\Phi 200/8''$ </p>	

[PSA] MCA160A: Bollard Light			DIMENSION:[UNIT: MM]
NOTES: Customs Engraved Pattern and [BGL] Glare shield Referred to Another Specifications. NOTES: Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.			
(MCA160A)-[MTF]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 160/6.3''$ 195/7.7" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNE] L125/5" </p>	 <p> $\Phi 160/6.3''$ 195/7.7" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNA] L200/8" $\Phi 250/10''$ </p>	
(MCA160A)-[MTD]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 160/6.3''$ 245/9.7" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNE] L125/5" </p>	 <p> $\Phi 160/6.3''$ 245/9.7" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNA] L200/8" $\Phi 250/10''$ </p>	
(MCA160A)-[MTT]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 160/6.3''$ 210/8.3" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNE] L125/5" </p>	 <p> $\Phi 160/6.3''$ 210/8.3" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNA] L200/8" $\Phi 250/10''$ </p>	

[PSA] MCA160B: Bollard Light			DIMENSION:[UNIT: MM]
NOTES: Customs Engraved Pattern and [BGL] Glare shield Referred to Another Specifications. NOTES: Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.			
(MCA160B)-[MTF]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 160/6.3''$ 245/9.7" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [FNE] L125/5" [PAVERS] 10/0.4" [CUSTOM] </p>	 <p> $\Phi 160/6.3''$ 245/9.7" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [FNA] L200/8" [PAVERS] 10/0.4" [CUSTOM] </p>	
(MCA160B)-[MTD]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 160/6.3''$ 295/11.6" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [FNE] L125/5" [PAVERS] 10/0.4" [CUSTOM] </p>	 <p> $\Phi 160/6.3''$ 295/11.6" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [FNA] L200/8" [PAVERS] 10/0.4" [CUSTOM] </p>	
(MCA160B)-[MTT]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 160/6.3''$ 285/11.3" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [FNE] L125/5" [PAVERS] 10/0.4" [CUSTOM] </p>	 <p> $\Phi 160/6.3''$ 285/11.3" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [FNA] L200/8" [PAVERS] 10/0.4" [CUSTOM] </p>	

[PSA] MCA200A: Bollard Light			DIMENSION:[UNIT: MM]
NOTES: Customs Engraved Pattern and [BGL] Glare shield Referred to Another Specifications.			
NOTES: Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.			
(MCA200A)-[MTF]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 200/7.87''$ 235/9.26" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNE] L150/6" </p>	 <p> $\Phi 200/7.87''$ 235/9.26" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNA] L300/12" $\Phi 350/14''$ </p>	
(MCA200A)-[MTD]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 200/7.87''$ 250/9.85" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNE] L150/6" </p>	 <p> $\Phi 200/7.87''$ 250/9.85" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNA] L300/12" $\Phi 300/14''$ </p>	
(MCA200A)-[MTT]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 200/7.87''$ 285/11.22" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNE] L150/6" </p>	 <p> $\Phi 200/7.87''$ 285/11.22" [PSA] L300/11.8" L450/17.8" L600/23.6" L750/29.5" L900/35.4" L1000/39.4" L1200/47.2" L1500/59" [PAVERS] 10/0.4" [CUSTOM] [FNA] L300/12" $\Phi 300/14''$ </p>	

[PSA] MCA200B: Bollard Light			DIMENSION:[UNIT: MM]
NOTES: Customs Engraved Pattern and [BGL] Glare shield Referred to Another Specifications. NOTES: Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.			
(MCA200B)-[MTF]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 200/7.87''$ 305/12'' [PSA] L300/11.8'' L450/17.8'' L600/23.6'' L750/29.5'' L900/35.4'' L1000/39.4'' L1200/47.2'' L1500/59'' [FNE] L150/6'' [PAVERS] 10/0.4'' [CUSTOM] </p>	 <p> $\Phi 200/7.87''$ 305/12'' [PSA] L300/11.8'' L450/17.8'' L600/23.6'' L750/29.5'' L900/35.4'' L1000/39.4'' L1200/47.2'' L1500/59'' [PAVERS] 10/0.4'' [CUSTOM] [FNA] L300/12'' $\Phi 350/14''$ </p>	
(MCA200B)-[MTD]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 200/7.87''$ 355/13.98'' [PSA] L300/11.8'' L450/17.8'' L600/23.6'' L750/29.5'' L900/35.4'' L1000/39.4'' L1200/47.2'' L1500/59'' [FNE] L150/6'' [PAVERS] 10/0.4'' [CUSTOM] </p>	 <p> $\Phi 200/7.87''$ 355/13.98'' [PSA] L300/11.8'' L450/17.8'' L600/23.6'' L750/29.5'' L900/35.4'' L1000/39.4'' L1200/47.2'' L1500/59'' [PAVERS] 10/0.4'' [CUSTOM] [FNA] L300/12'' $\Phi 350/14''$ </p>	
(MCA200B)-[MTT]	[PSA]-[FNE]	[PSA]-[FNA]	CASE STUDY:
	 <p> $\Phi 200/7.87''$ 355/13.98'' [PSA] L300/11.8'' L450/17.8'' L600/23.6'' L750/29.5'' L900/35.4'' L1000/39.4'' L1200/47.2'' L1500/59'' [FNE] L150/6'' [PAVERS] 10/0.4'' [CUSTOM] </p>	 <p> $\Phi 200/7.87''$ 355/13.98'' [PSA] L300/11.8'' L450/17.8'' L600/23.6'' L750/29.5'' L900/35.4'' L1000/39.4'' L1200/47.2'' L1500/59'' [PAVERS] 10/0.4'' [CUSTOM] [FNA] L300/12'' $\Phi 350/14''$ </p>	