

TURBO SERIES



Power	Beam Angle (50%)	BUG Rating
75W	T2	B2-U0-G2
100W	T2	B3-U0-G3
120W	T2	B3-U0-G3
145W	T2	B3-U0-G3
200W	T2	B3-U0-G4
240W	T2	B3-U0-G4
300W	T2	B3-U0-G4
75W	T3	B2-U0-G2
100W	T3	B3-U0-G3
120W	T3	B3-U0-G3
145W	T3	B3-U0-G3
200W	T3	B3-U0-G4
240W	T3	B3-U0-G4
300W	T3	B3-U0-G4
75W	T4	B2-U0-G4
100W	T4	B2-U0-G4
120W	T4	B2-U0-G4
145W	T4	B2-U0-G4
200W	T4	B2-U0-G5
240W	T4	B2-U0-G5
300W	T4	B2-U0-G5
75W	T5	B3-U0-G3
100W	T5	B3-U0-G3
120W	T5	B3-U0-G3
145W	T5	B3-U0-G3
200W	T5	B3-U0-G4
240W	T5	B3-U0-G4
300W	T5	B3-U0-G4

Description

The **Turbo** series is an exceptional LED choice for large parking lots and area light luminaire. Fully rotatable optics allow for precise lighting design and on site aiming. It has a patented all-around ventilation that allows for washing off dust, leaves and birds droppings. Saves 60% labor costs through single person easy installation and tool free safety switch. Exceptional High performance and system efficiency of 170 lm/W suitable for any applications. Side and rear shielding is available for applications sensitive to light trespass. Optional integral occupancy and photocell sensors are available for maximum energy savings.

3000K or warmer and (AR) fixed arm mount must be selected for IDA certification.

Electrical Specifications

Available Wattages: 75W, 100W, 120W, 145W, 200W, 240W, 300W
 Power Factor: 0.95
 CRI: >80
 Surge Protection: 10kV Standard
 Lumen Maintenance @ L70: 180,000 hrs
 IP Rating: IP66
 IK Rating: IK10
 Operating Temperature: -40 to 50°C (-40 to 122°F)
 Available Voltages: 100-277VAC and 347-480VAC

Certifications and Warranty

cETLus, CE, DLC and IDA with 6 year warranty

TURBO 75W/100W



Product Information	75W	100W
Installation:	Arm, Slip Fitter, Trunnion	
Material:	Die-cast Aluminum	
Finish:	Powder coat	
System power (W):	75W	100W
Fixture lumen output (lm):	12750	17000
System efficiency (lm/W): 5000K	170	
Lumen Maintenance @L70 (hrs):	>180,000	

Packaging

Net weight lamp (kg/lb):	3.90 / 8.59	3.90 / 8.59
Gross weight carton (kg/lb):	4.70 / 10.36	4.70 / 10.36
Master carton dimensions (mm/in):	485x350x135 / 19.1x13.8x5.3	485x350x135 / 19.1x13.8x5.3
Quantity per carton:	1	1

Code composition

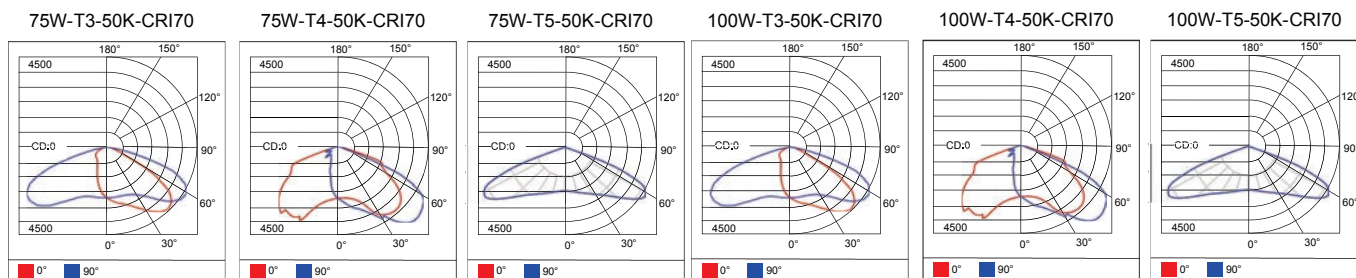
Series	Model	Mounting	Wattage-Lumens	Optics
AL Area Light	TUR Turbo	AR Arm SF Slip Fitter TRN Trunnion	75W-127.5L 75W-12750lm	T2 TYPE II T3 TYPE III T4 TYPE IV T5 TYPE V

CCT	CRI	Voltage	Dimming	Finish	Accessories
30K 3000K	80 80+	UNV 100-277V	D 0-10V Dimming	DB Dark Bronze (Standard)	NA No Accessories
40K 4000K		HV 347-480V		BK Black	PC 3 Pin Photocell
50K 5000K				WH White	SPD20 20KV SPD PCS 7Pin Photocell Socket PIR PIR Occupancy Sensor

Code composition

Series	Model	Mounting	Wattage-Lumens	Optics
AL Area Light	TUR Turbo	AR Arm SF Slip Fitter TRN Trunnion	100W-170L 100W-17000lm	T2 TYPE II T3 TYPE III T4 TYPE IV T5 TYPE V

CCT	CRI	Voltage	Dimming	Finish	Accessories
3000K	80 80+	UNV 100-277V	D 0-10V Dimming	DB Dark Bronze (Standard)	NA No Accessories
4000K		HV 347-480V		BK Black	PC 3 Pin Photocell
5000K				WH White	SPD20 20KV SPD PCS 7Pin Photocell Socket PIR PIR Occupancy Sensor



TURBO 120W/145W



Product Information

	120W	145W
Installation:	Arm, Slip Fitter, Trunnion	
Material:	Die-cast Aluminum	
Finish:	Powder coat	
System power (W):	120	145
Fixture lumen output (lm):	20400	24650
System efficiency (lm/W)	170	
Lumen Maintenance @L70 (hrs):	>180,000	

Packaging

Net weight lamp (kg/lb):	3.90 / 8.59	3.90 / 8.59
Gross weight carton (kg/lb):	4.70 / 10.36	4.70 / 10.36
Master carton dimensions (mm/in):	485x350x135 / 19.1x13.8x5.3	485x350x135 / 19.1x13.8x5.3
Quantity per carton:	1	1

Code composition

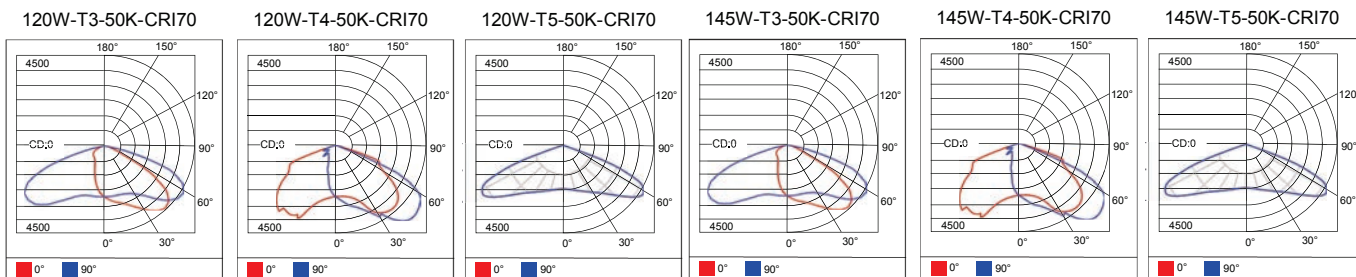
Series	Model	Mounting	Wattage-Lumens	Optics
AL Area Light	TUR Turbo	AR Arm SF Slip Fitter TRN Trunnion	120W-204L 120W-20400lm	T2 TYPE II T3 TYPE III T4 TYPE IV T5 TYPE V

CCT	CRI	Voltage	Dimming	Finish	Accessories
30K 3000K	80 80+	UNV 100-277V	D 0-10V Dimming	DB Dark Bronze (Standard)	NA No Accessories
40K 4000K		HV 347-480V		BK Black	PC 3 Pin Photocell
50K 5000K				WH White	SPD20 20KV SPD PCS 7Pin Photocell Socket PIR PIR Occupancy Sensor

Code composition

Series	Model	Mounting	Wattage-Lumens	Optics
AL Area Light	TUR Turbo	AR Arm SF Slip Fitter TRN Trunnion	145W-246.5L 145W-24650lm	T2 TYPE II T3 TYPE III T4 TYPE IV T5 TYPE V

CCT	CRI	Voltage	Dimming	Finish	Accessories
30K 3000K	80 80+	UNV 100-277V	D 0-10V Dimming	DB Dark Bronze (Standard)	NA No Accessories
40K 4000K		HV 347-480V		BK Black	PC 3 Pin Photocell
50K 5000K				WH White	SPD20 20KV SPD PCS 7Pin Photocell Socket PIR PIR Occupancy Sensor



TURBO 200W



Product Information

200W

Installation:	Arm, Slip Fitter, Trunnion
Material:	Die-cast Aluminum
Finish:	Powder coat
System power (W):	200
Fixture lumen output (lm):	34000
System efficiency (lm/W)	170
Lumen Maintenance @L70 (hrs):	>180,000

Packaging

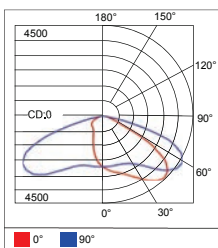
Net weight lamp (kg/lb):	6.20 / 13.7
Gross weight carton (kg/lb):	7.90 / 17.4
Master carton dimensions (mm/in):	605x435x135 / 23.8x17.1x5.3
Quantity per carton:	1

Code composition

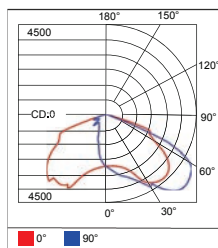
Series		Model		Mounting		Wattage-Lumens		Optics	
AL	Area Light	TUR	Turbo	AR	Arm	200W-340L	200W-34000lm	T2	TYPE II
				SF	Slip Fitter			T3	TYPE III
				TRN	Trunnion			T4	TYPE IV
								T5	TYPE V

CCT		CRI		Voltage		Dimming		Finish		Accessories	
30K	3000K	80	80+	UNV	100-277V	D	0-10V Dimming	DB	Dark Bronze (Standard)	NA	No Accessories
40K	4000K			HV	347-480V			BK	Black	PC	3 Pin Photocell
50K	5000K							WH	White	SPD20	20KV SPD
										PCS	7Pin Photocell Socket
										PIR	PIR Occupancy Sensor

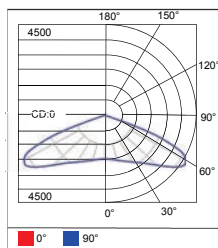
200W-T3-50K-CRI70



200W-T4-50K-CRI70



200W-T5-50K-CRI70



TURBO 240W/300W



Product Information

	240W	300W
Installation:	Arm, Slip Fitter, Trunnion	
Material:	Die-cast Aluminum	
Finish:	Powder coat	
System power (W):	240	300
Fixture lumen output (lm):	UNV:39100 / HV: 40800	51000
System efficiency (lm/W)	170	
Lumen Maintenance @L70 (hrs):	>180,000	

Packaging

Net weight lamp (kg/lb):	6.20 / 13.7	6.20 / 13.7
Gross weight carton (kg/lb):	7.90 / 17.4	7.90 / 17.4
Master carton dimensions (mm/in):	605x435x135 / 23.8x17.1x5.3	605x435x135 / 23.8x17.1x5.3
Quantity per carton:	1	1

Code composition

Series	Model	Mounting	Wattage-Lumens	Optics
AL Area Light	TUR Turbo	AR Arm	240W-408L 240W-40800lm (HV)	T2 TYPE II
		SF Slip Fitter	W-391L 0W-39100lm (UNV)	T3 TYPE III
		TRN Trunnion		T4 TYPE IV
				T5 TYPE V

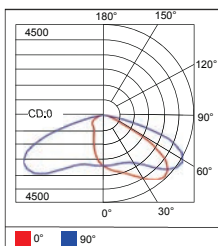
CCT	CRI	Voltage	Dimming	Finish	Accessories
30K 3000K	80 80+	UNV 100-277V	D 0-10V Dimming	DB Dark Bronze (Standard)	NA No Accessories
40K 4000K		HV 347-480V			PC 3 Pin Photocell
50K 5000K				BK Black	SPD20 20KV SPD
				WH White	PCS 7Pin Photocell Socket
					PIR PIR Occupancy Sensor

Code composition

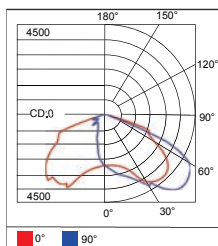
Series	Model	Mounting	Wattage-Lumens	Optics
AL Area Light	TUR Turbo	AR Arm	300W-510L 300W-51000lm	T2 TYPE II
		SF Slip Fitter		T3 TYPE III
		TRN Trunnion		T4 TYPE IV
				T5 TYPE V

CCT	CRI	Voltage	Dimming	Finish	Accessories
30K 3000K	80 80+	UNV 100-277V	D 0-10V Dimming	DB Dark Bronze (Standard)	NA No Accessories
40K 4000K		HV 347-480V			PC 3 Pin Photocell
50K 5000K				BK Black	SPD20 20KV SPD
				WH White	PCS 7Pin Photocell Socket
					PIR PIR Occupancy Sensor

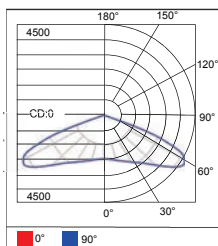
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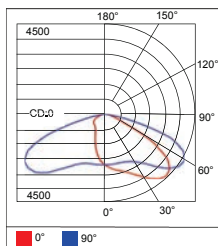
230W-T4-50K-CRI70



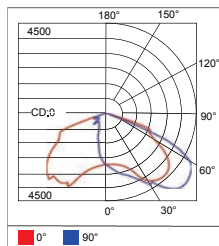
230W-T5-50K-CRI70



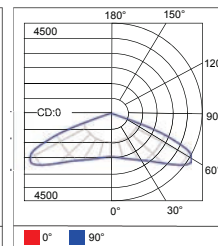
300W-T3-50K-CRI70



300W-T4-50K-CRI70



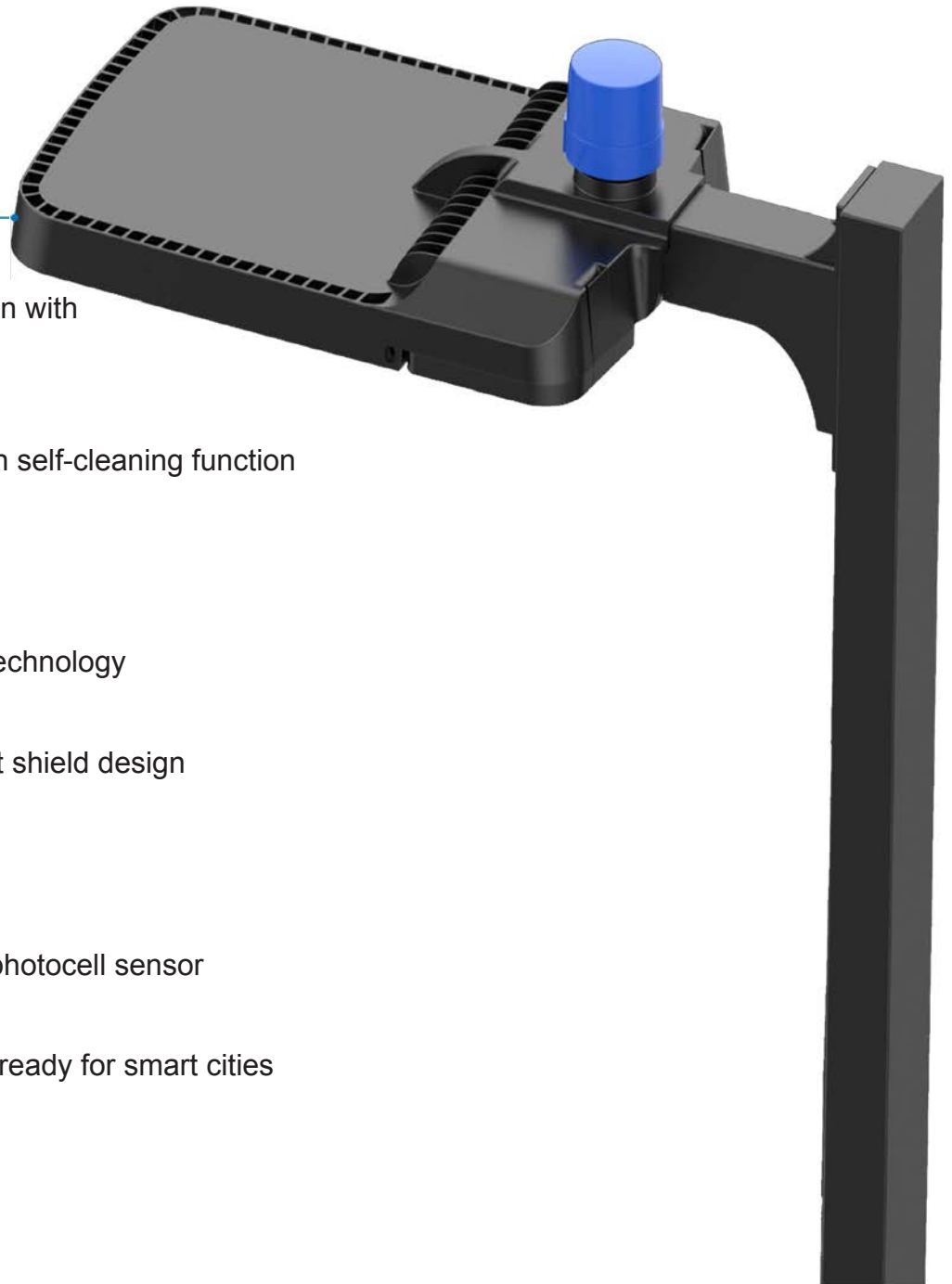
300W-T5-50K-CRI70



TURBO

EPAft ²						
Model No	1	2@90°	2@180°	3@120°	3@90°	4@90°
AL- TUR-75W-T3	0.5	0.7	1	1.1	1.1	1.1
AL- TUR-100W-T3	0.5	0.7	1	1.1	1.1	1.1
AL- TUR-120W-T3	0.5	0.7	1	1.1	1.1	1.1
AL- TUR-145W-T3	0.5	0.7	1	1.1	1.1	1.1
AL- TUR-200W-T3	0.7	1.1	1.4	1.5	1.5	1.5
AL- TUR-230W-T3	0.7	1.1	1.4	1.5	1.5	1.5
AL- TUR-300W-T3	0.7	1.1	1.4	1.5	1.5	1.5
AL- TUR-75W-T4	0.5	0.7	1	1.1	1.1	1.1
AL- TUR-100W-T4	0.5	0.7	1	1.1	1.1	1.1
AL- TUR-120W-T4	0.5	0.7	1	1.1	1.1	1.1
AL- TUR-145W-T4	0.5	0.7	1	1.1	1.1	1.1
AL- TUR-200W-T4	0.7	1.1	1.4	1.5	1.5	1.5
AL- TUR-230W-T4	0.7	1.1	1.4	1.5	1.5	1.5
AL- TUR-300W-T4	0.7	1.1	1.4	1.5	1.5	1.5

FEATURES



All-around ventilated design with powerful heat dissipation

Patented smooth body with self-cleaning function

Rotatable optics

Internal reflectance optic technology

Internal reflection backlight shield design

Tool-free maintenance

Option of occupancy and photocell sensor

Sensor and IOT controller ready for smart cities

Longer lifespan

Less labor cost

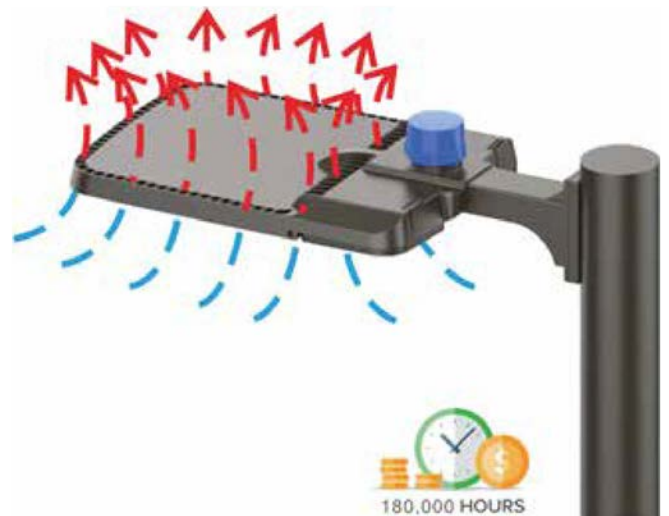
Maximum design flexibility

FEATURES

All-Around Ventilated Design with Powerful Heat Dissipation

All around ventilated housing with natural air convection design. Air can convert and fully pass through the gaps to remove the heat rapidly and reduce temperature by around 15 degrees Celsius. This ensures excellent performance and a longer lifespan.

LED life of up to 180,000 hours.



Patented Smooth Body with Self-Cleaning Function

Special sleek housing allows for washing off dust, leaves and animal feces, maintaining perfect heat dissipation.



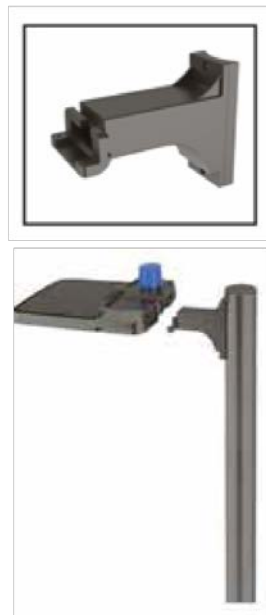
Single-Person Installation

These unique designs feature slide and lock for convenient and safe installation.

Slip Fitter



Arm



Trunnion

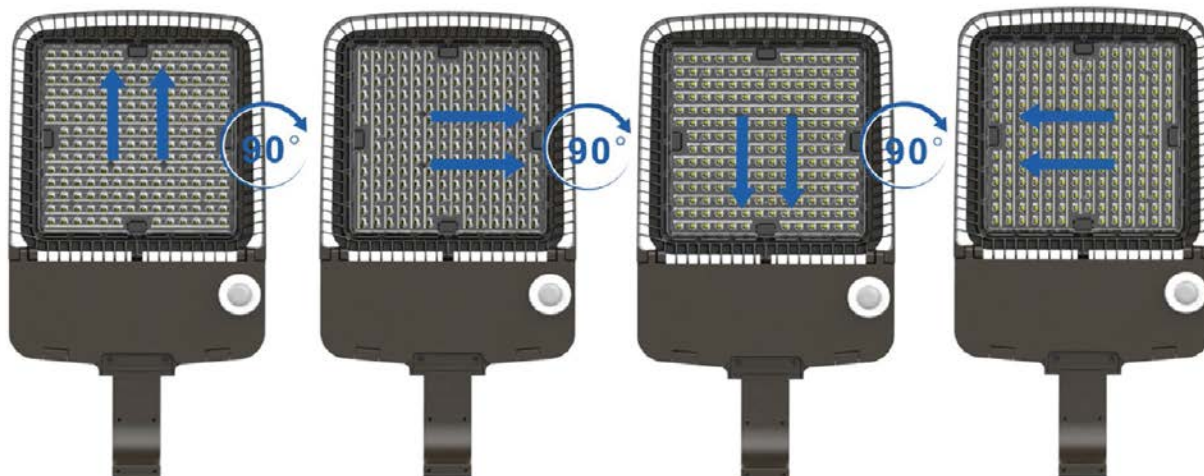


FEATURES

Rotatable Optics

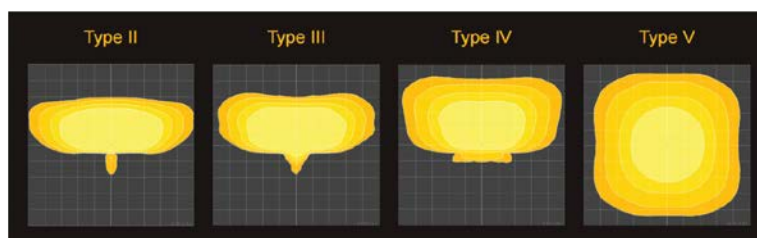
Field rotation eases lighting design and implementation. Simply rotate the lens and get a different light distribution in different directions.

No change to fixture installation and EPA.



Internal Reflectance Optic Technology

Internal Reflectance Optic Technology provides superior optical control to deliver exceptional light level uniformity and reduce light escape. It features simplified layout and installation, reducing pole count, energy consumption, lowers installations costs and improves visual acuity.



Dark Sky Compliant with full cutoff and No up light.

Tool-Free Maintenance

Excellent structural design to ease manual disassembly and installation of lighting components. High-power lights are generally installed in higher operating environment, the operators require very few tools for their convenience and security.

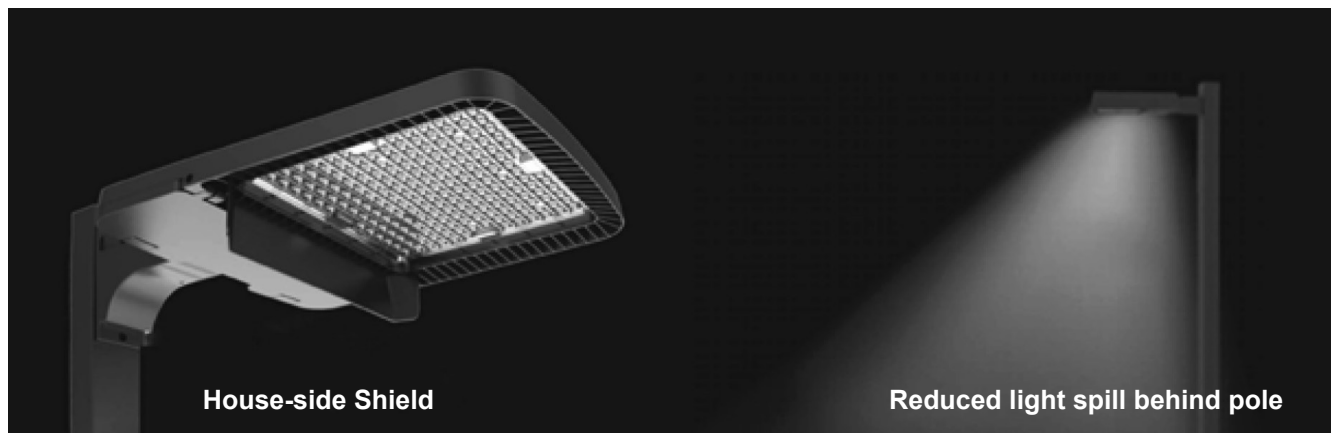
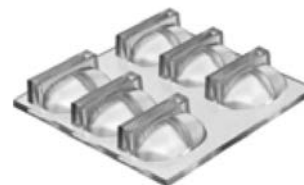


FEATURES

Internal Reflection Backlight Shield Design

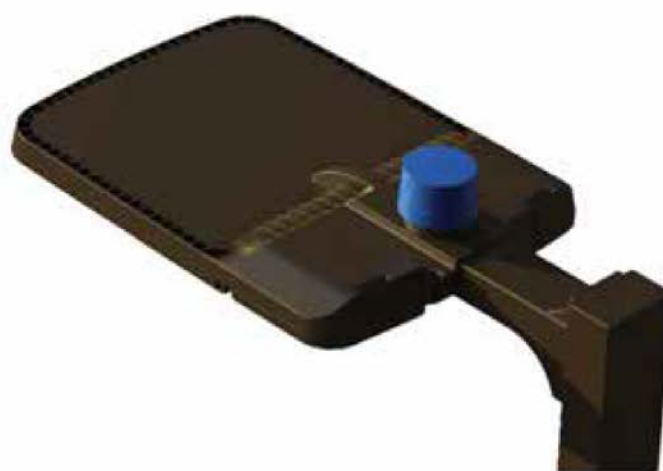
This unique internal reflection back-light shield design and optional house side shield will reduce the light spill behind pole and increase forward illumination.

- 85% light reduction behind pole
- Achieves impressive BUG rating
- Neighbour-friendly lighting



Option of Occupancy and Photocell Sensore

Intelligent use of PIR Motion Sensors meets stringent building codes such as CAT Title 24 (requirements for bi-level dimming of lighting fixtures. Lighting energy savings of 50% or more, the sensor is capable of dimming lighting loads down to 0%, 10%, 25%, 50% allowing maximum energy savings, maximizing ROI. Supports fixture ceiling mounts up to 40ft.



FEATURES

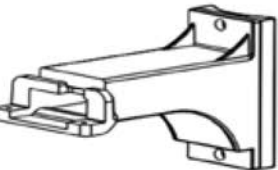
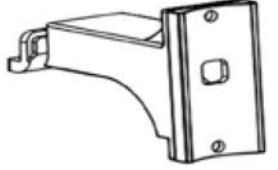
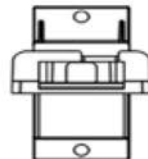
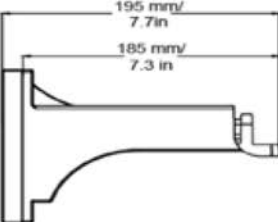
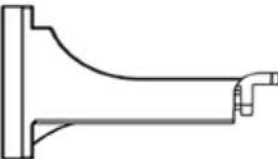
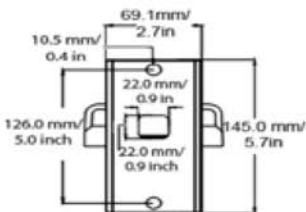
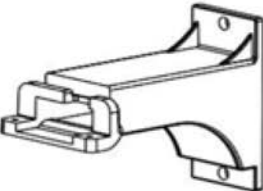
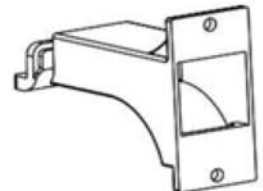
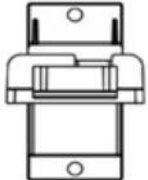
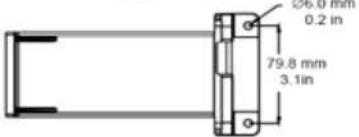
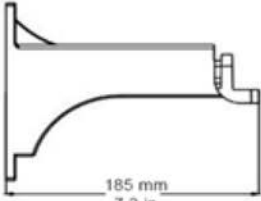
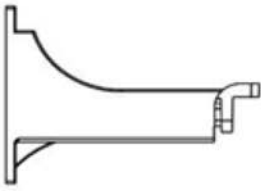
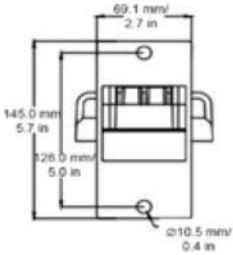
Sensor and IOT Controller Ready for Smart Cities

Twist-lock receptacle available for external third party controls. This optional feature allows for installation of a luminaire now and sensors at a later date without any hassle.



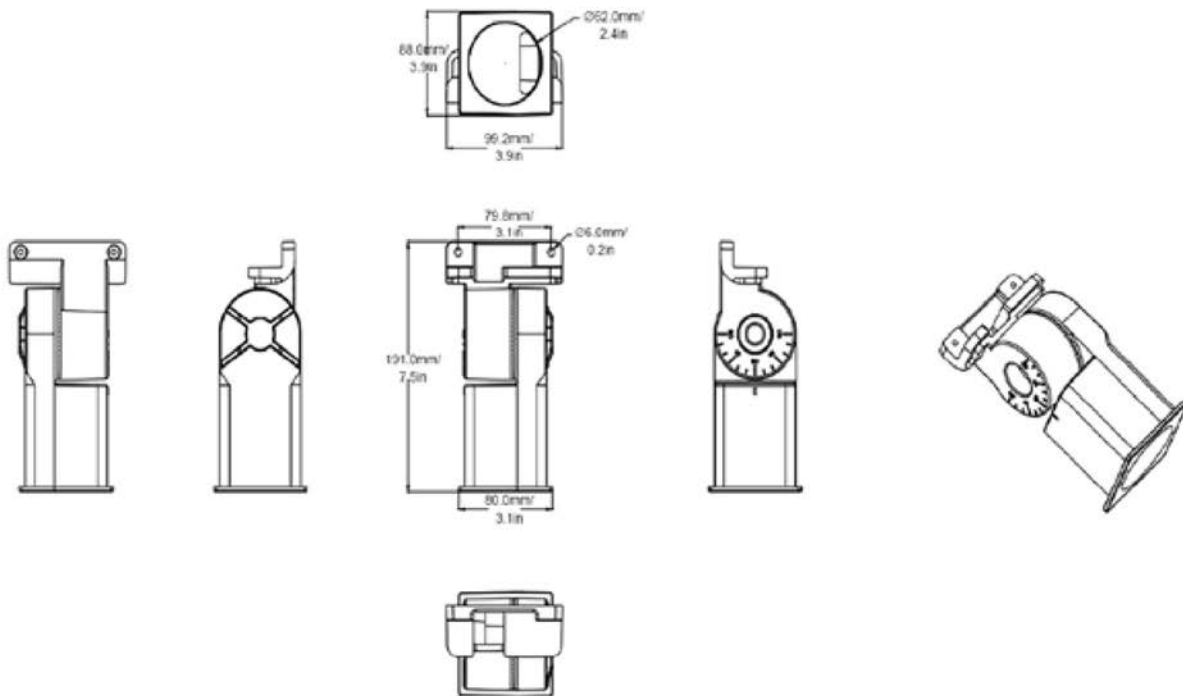
MOUNTING OPTIONS

SQUARE-POLE / ROUND POLE (2-IN-1)

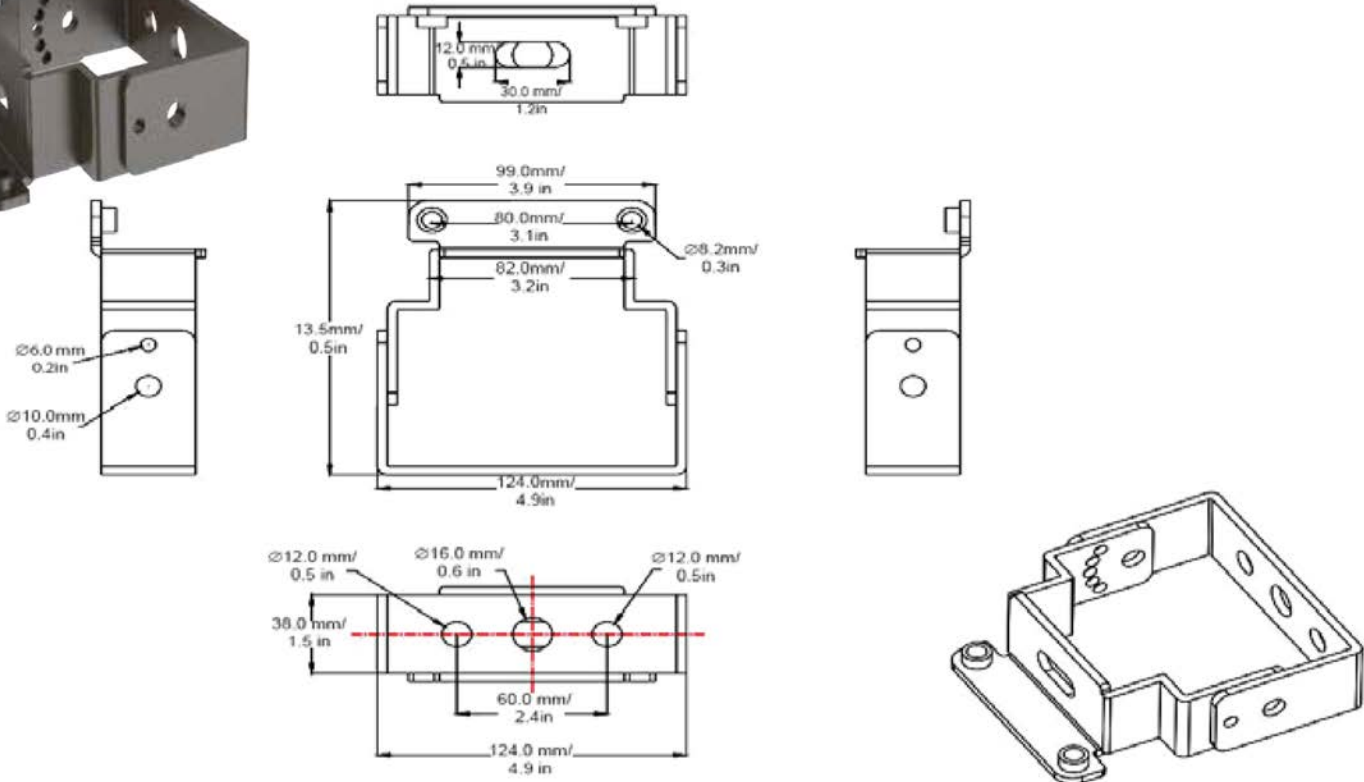


MOUNTING OPTIONS

SLIP FITTER



WALL MOUNT BRACKET

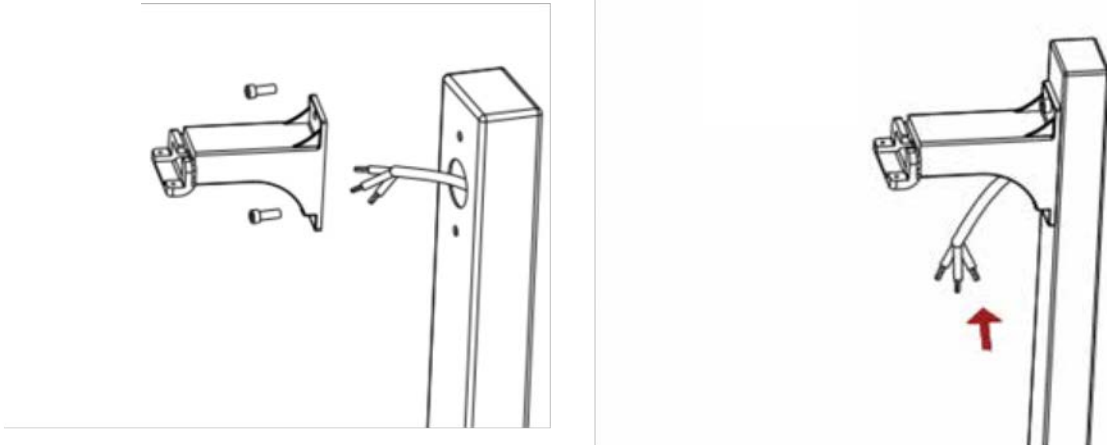


Installation Instructions for Square / Round Pole

Step 1:

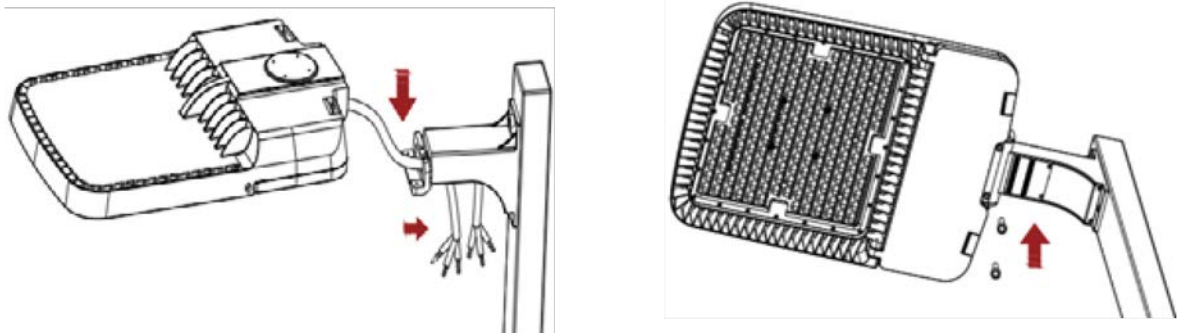
For square or round arm mount

Take off the pole cap, position and align bracket, center and plumb over the pole holes. If the existing drill pattern does not match the existing holes, align the top hole, then mark and drill the remaining holes. Pull out cable to cable compartment, attach the inner smaller plate and outer brackets by using (2) M8*35 bolts and nuts.



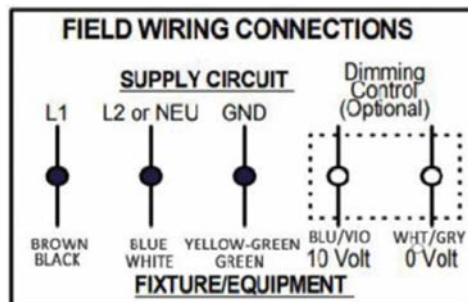
Step 2:

Pull the fixture input power cord through the bracket to the wiring compartment, place the fixture over the bracket, and attach by using (2) M8*20 screws.



Step 3:

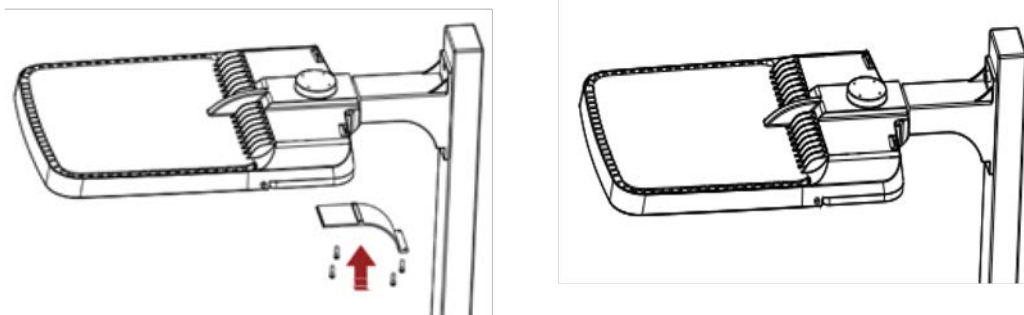
Refer to wiring section below to complete wiring within the cable compartment.



Installation Instructions for Square / Round Pole

Step 4:

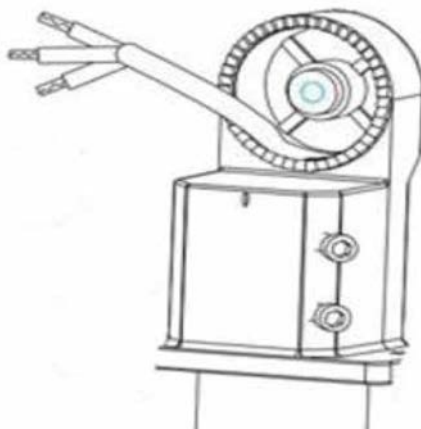
Cap the wiring compartment with screwdriver, using (4) M3*8 screws.



Installation Instructions for Slip Fitter

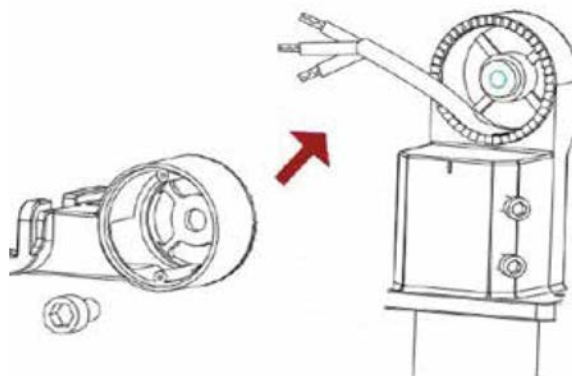
Step 1:

Remove knob in middle of bracket. Loosen the inner hexagonal bolts inside, engage the adjustable fitter on to the pole top and pull the power supply cable to the cable wiring compartment. Attach this part to the pole by using (4) M8*25 screws.



Step 2:

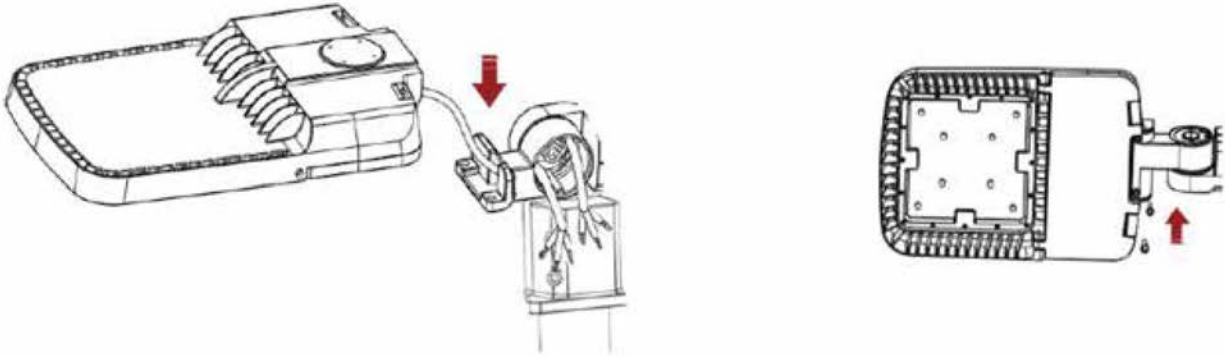
Adjust the tilt angle as needed and attach 2 parts of brackets using (1) M12*25 hexagonal bolt, fasten it.



Installation Instructions for Slip Fitter

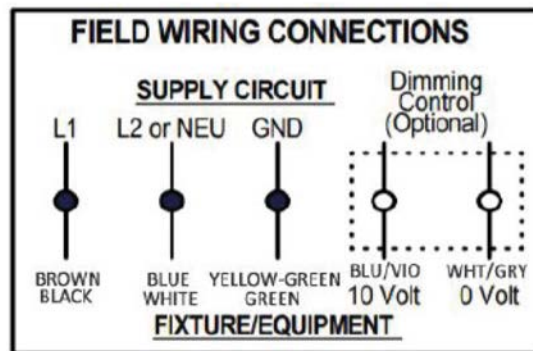
Step 3:

Pull the fixture input power cord through the bracket to the wiring compartment, place the fixture over the bracket, attach by using (2) M6*20 screws.



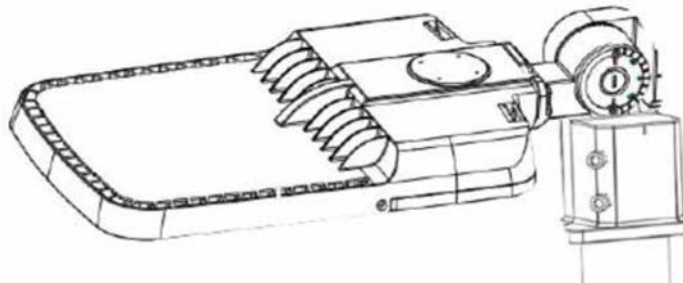
Step 4:

Refer to the wiring section below for details, finish wiring within the cable compartment.

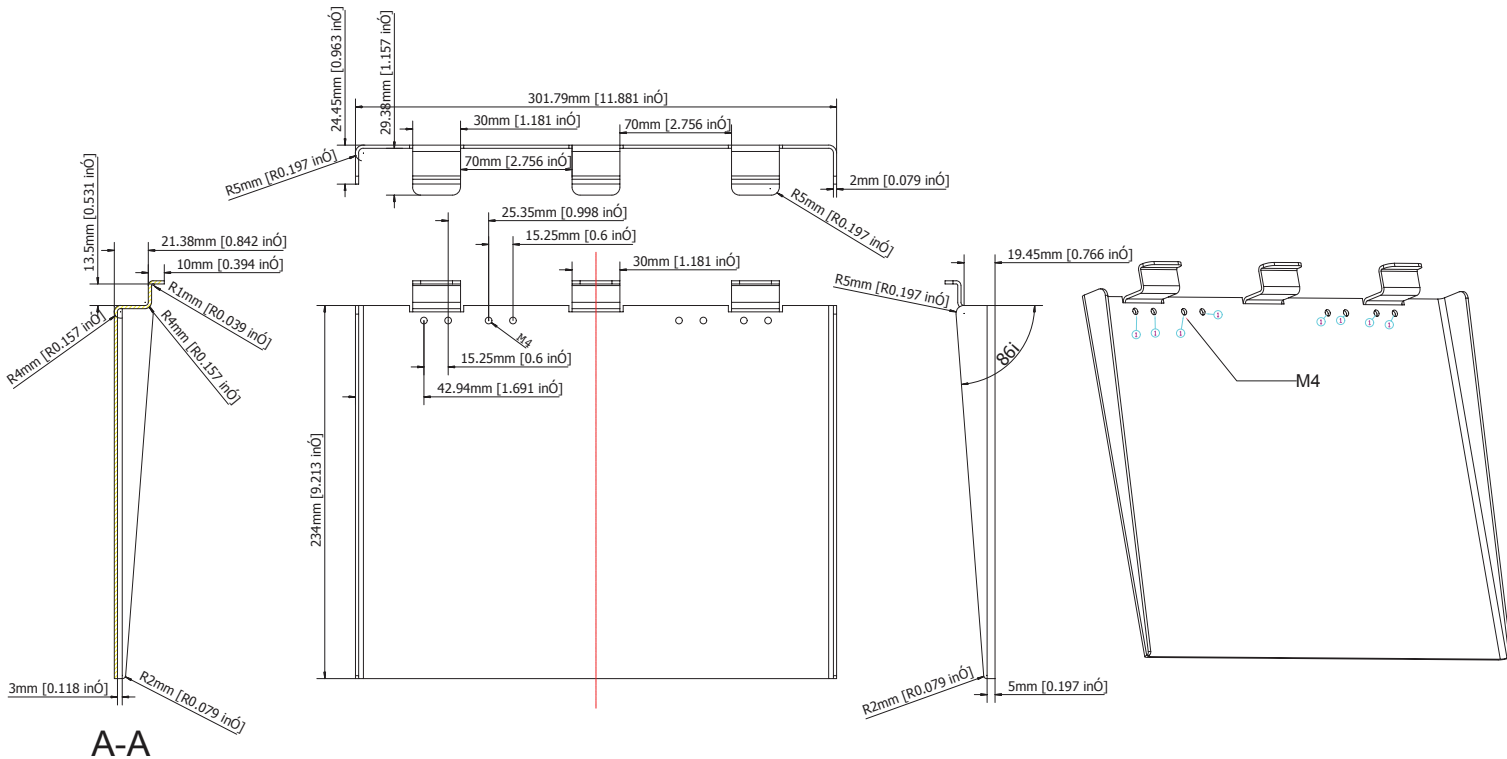


Step 5:

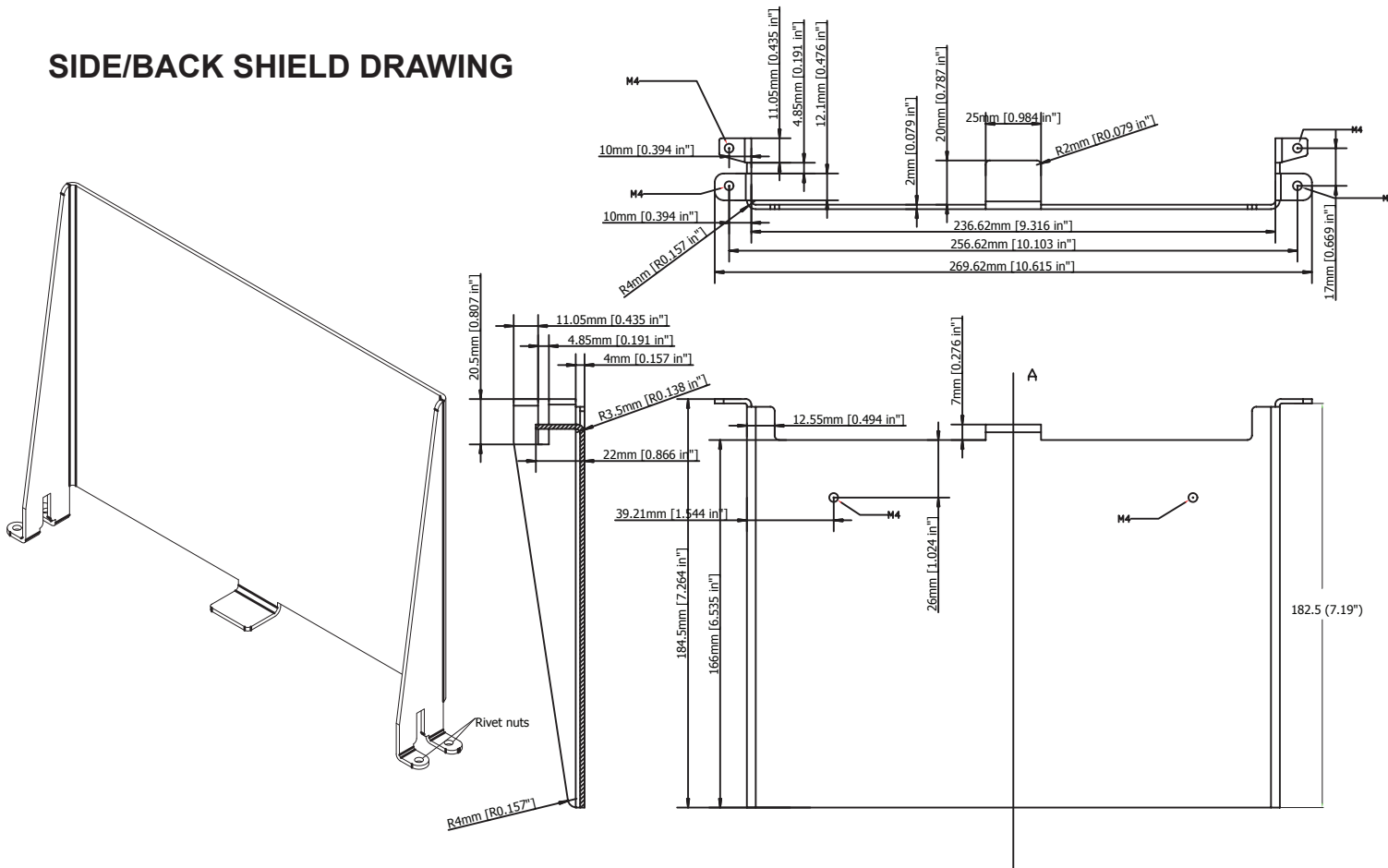
Cap the wiring compartment with the round metal plate, screw using (2) M4*8 screws, add M20 nylon cap.



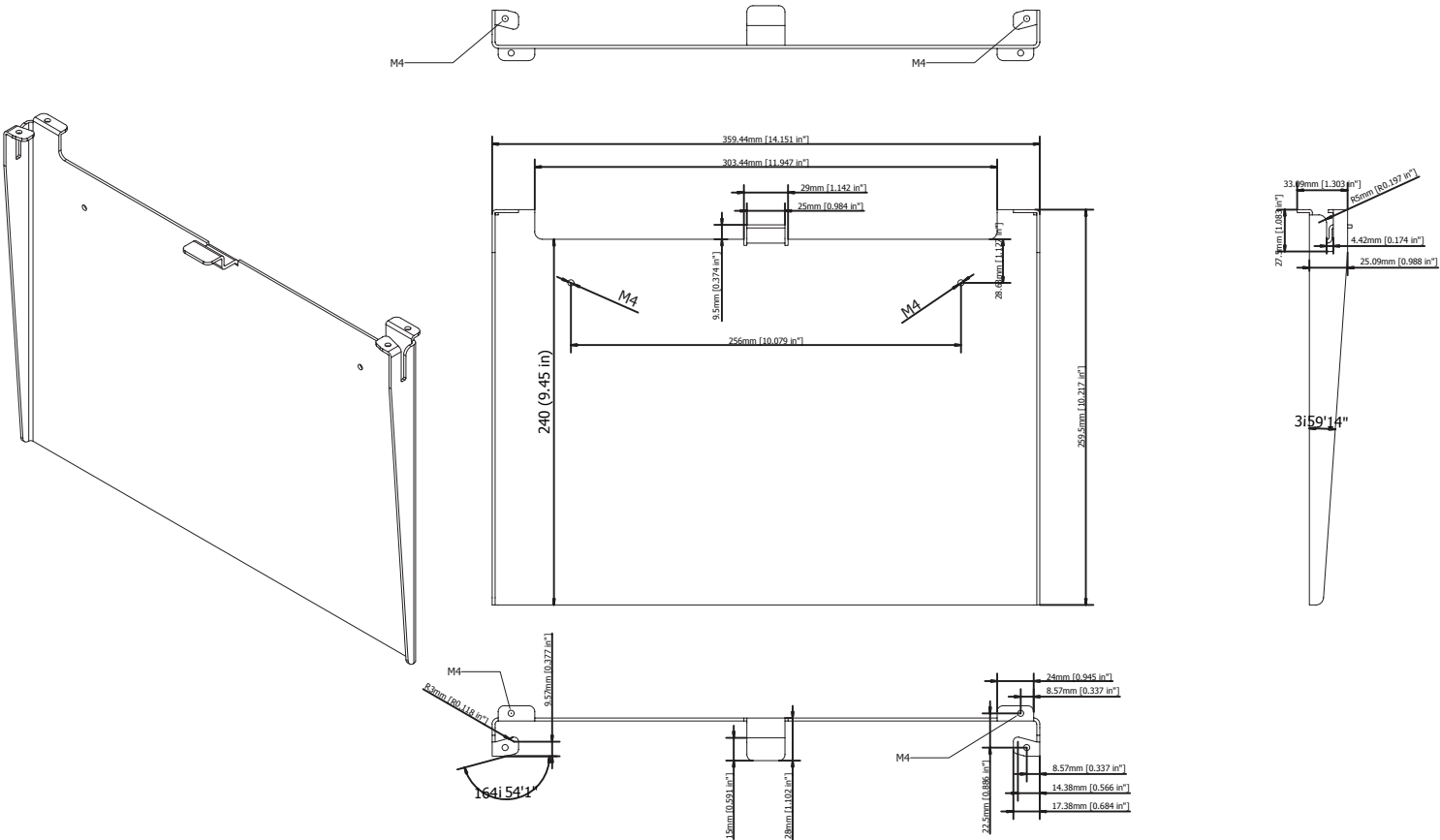
SIDE SHIELD DRAWING



SIDE/BACK SHIELD DRAWING



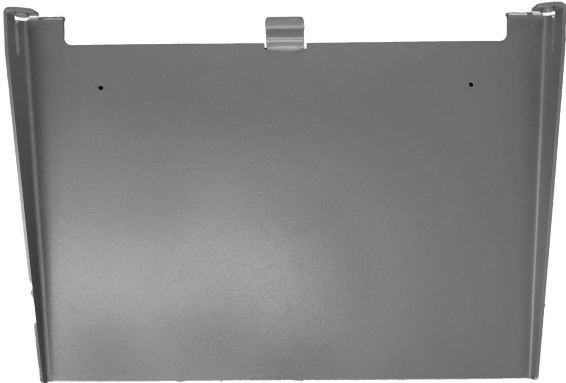
BACK SHIELD DRAWING



SIDE SHIELD (LEFT AND RIGHT)



BACK SHIELD



TURBO WITH SHIELD

