



## Applications:

Auto dealerships, parking lots, walkways, roadways, campuses, facade lighting, grocery stores and other public areas.

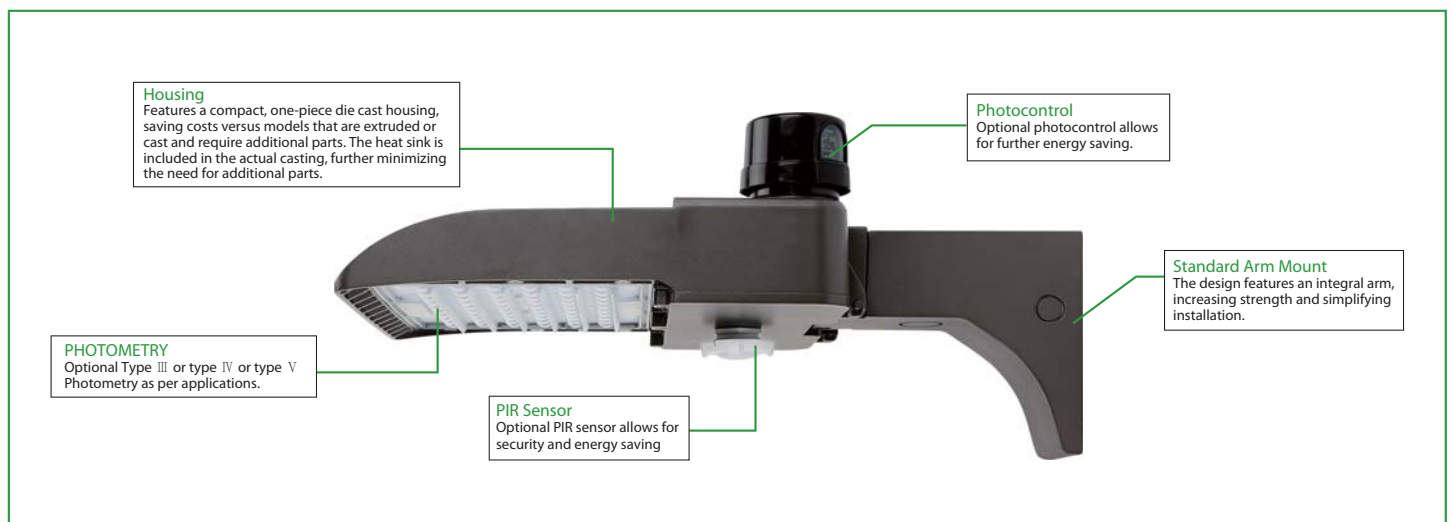
## Features

- The one piece die-cast aluminum housing with UV resistant polycarbonate optical lens, outstanding corrosion protection.
- Lumen output 19500-42300lm with efficacy to 141lm/W.
- Various distribution patterns including Type III and Type IV and Type V
- Suitable for mounting heights ranging from 26-40' in area lighting applications
- Round pole, Square pole, slipfitter and wall mount
- Optional for photocell. Increase energy savings with bi-level motion sensor
- Voltage is 120-277V / 347V-480V and support 1-10V dimmable
- Fixtures are suitable for use in ambients from -40°C to 45 °C (-40 °F to 113 °F).
- Expected service life is over 100,000 hrs and 10 year limited warranty
- UL Wet location listed and DLC premium qualified

Medium Size: 150W/200W



Large Size: 250W/300W



# Wireless Lighting Control System

G5 Smart Wireless Lighting Controls System is an indoor or outdoor wireless control system for the parking lot, street, roadway and commercial lights. The unique technology inside this system enables customer to remote monitor and operate all fixtures through a Web-enabled central management system. Customer can use any Internet enabled equipment, such as smart phone, computer or tablet, to access the user portal of the system.



**Wireless Control Node**  
Leverages building data to help you optimize your savings



**Smart Gateway**  
Stores and transmits real-time building usage data



**Lighting Fixture**  
Highly efficient LED fixtures



**Software Services**  
Mobile & Web application

## Features

- Accurate, utility-grade energy metering per fixture or per circuit
- Stores days of energy data in local memory in case of network outage and automatically synchronize data with central database once network recovers
- Provides real-time (less than 100ms response time) protection on fixtures from the out of range voltage
- Real-time detects the theft of electricity and reports time, wattage and location to the operation center
- Automatically download programmed schedules
- Maintain a redundant mesh network through encrypted connections
- Integrated with latest video surveillance system
- Provide integration interface on the control board and software platform. Capable of integration with police and city management system

## PERFORMANCE DATA

SYSTEM WATTS	DIST. TYPE	4000K(70CRI)					5000K(70CRI)				
		LUMENS	LPW	B	U	G	LUMENS	LPW	B	U	G
150W	3	19500lm	130 lm/W	3	0	2	19700lm	131 lm/W	3	0	2
	4	18800lm	125 lm/W	3	0	3	18800lm	125 lm/W	3	0	3
	5	21000lm	140 lm/W	4	0	2	21150lm	141 lm/W	4	0	2
200W	3	26000lm	130 lm/W	3	0	2	26200lm	131 lm/W	3	0	2
	4	25000lm	125 lm/W	3	0	3	25000lm	125 lm/W	3	0	3
	5	27000lm	135 lm/W	4	0	2	27200lm	136 lm/W	4	0	2
250W	3	33000lm	132 lm/W	4	0	3	33250lm	133 lm/W	4	0	3
	4	30000lm	120 lm/W	4	0	3	30500lm	122 lm/W	4	0	3
	5	35000lm	140 lm/W	5	0	2	35250lm	141 lm/W	5	0	2
300W	3	39000lm	130 lm/W	4	0	3	39300lm	131 lm/W	4	0	3
	4	36000lm	120 lm/W	4	0	4	37000lm	123 lm/W	4	0	4
	5	42000lm	140 lm/W	5	0	2	42300lm	141 lm/W	5	0	2

## EPA OF AREA LIGHT

Item							
	1	2 @90°	2 @120°	2@180°	3 @90°	3 @120°	4 @90°
150W/200W	0.4418	0.7145	0.8813	0.8836	1.0548	1.0135	1.0548
250W/300W	0.5614	0.8471	1.105	1.1228	1.294	1.2503	1.294

# ELECTRICAL DATA

Number Of Drivers	Driver Current (mA)	Nominal Power (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
1	3900	150	120	1.25
		150	208	0.72
		150	240	0.63
		150	277	0.54
		150	347	0.43
		150	480	0.31
1	5100	200	120	1.67
		200	208	0.96
		200	240	0.83
		200	277	0.72
		200	347	0.58
		200	480	0.42
1	6400	250	120	2.08
		250	208	1.20
		250	240	1.04
		250	277	0.90
		250	347	0.72
		250	480	0.52
1	6000	300	120	2.50
		300	208	1.44
		300	240	1.25
		300	277	1.08
		300	347	0.86
		300	480	0.63

## MOUNTING

- Standard versatile mounting arm accommodates multiple drilling patterns as well as square and round poles
- Wall Mount available for direct wall mounting and J-box mounting
- Optional for cast aluminum slipfitter mounting adapter (Compatible with more MESTER mounting adaptors such as Tenon, suits for various application)

### Mounting Options



**Arm Mount** (4" and 5" Square and Round poles)  
Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.

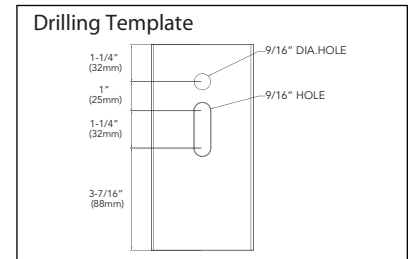
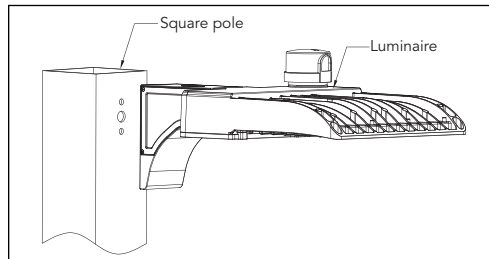
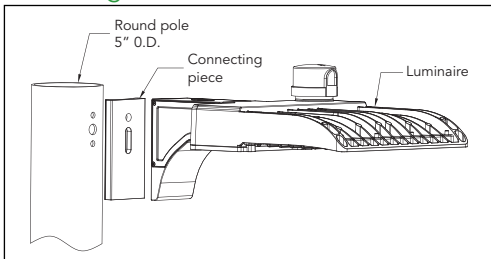


**Slipfitter Mount**  
An optional cast aluminum mast arm adapter secures fixture head to nominal 2"(2-3/8" O.D. pipe size) horizontal steel tenon arm.



**Wall Mount**  
Wall Mount is easy to install for direct wall mounting with 1/2" conduit wiring or standard J-box mounting

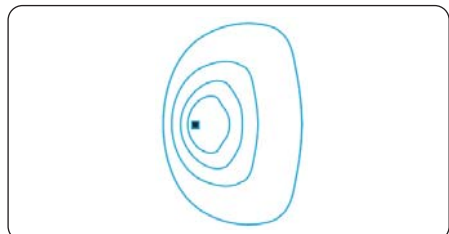
### Mounting Dimensions



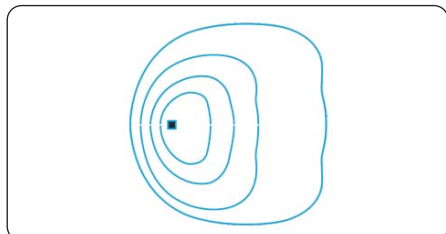
## PHOTOMETRICS

Mester offers a complete set of optical systems to meet every site lighting requirement. These systems provide remarkable flexibility in precisely matching light distribution patterns to specific site requirements.

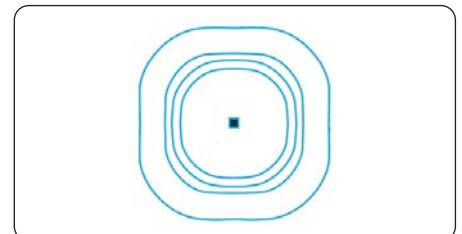
**Type 3:**  
Type 3 optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, it creates a rectangular pattern which can extend pole spacings.



**Type 4:**  
Type 4 is suitable for applications where light is primarily required forward with minimal backlight. Typical installations include perimeter poles.



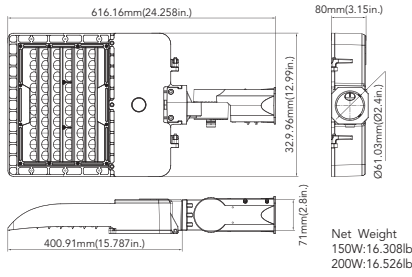
**Type 5:**  
Type 5 optics produce a symmetrical square distribution pattern that distributes light equally on all sides of the luminaire. Type 5 luminaires is universal for most area lighting applications



# DIMENSION

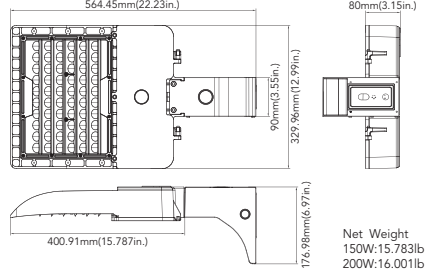
unit: inch/mm

## Slipfitter Mount(150W&200W)



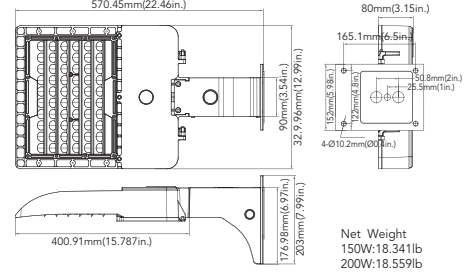
Net Weight  
150W:16.308lb  
200W:16.526lb

## Pole Mount(150W&200W)



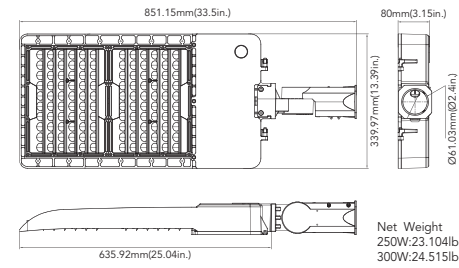
Net Weight  
150W:15.783lb  
200W:16.001lb

## Wall Mount(150W&200W)



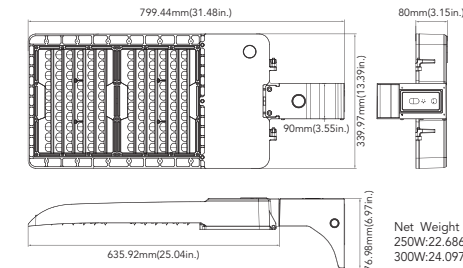
Net Weight  
150W:18.341lb  
200W:18.559lb

## Slipfitter Mount(250W&300W)



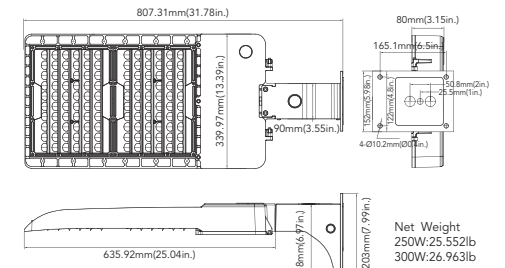
Net Weight  
250W:23.104lb  
300W:24.515lb

## Pole Mount(250W&300W)



Net Weight  
250W:22.686lb  
300W:24.097lb

## Wall Mount(250W&300W)



Net Weight  
250W:25.552lb  
300W:26.963lb

# ORDERING GUIDE

Example: MAL02 150W 27V XXK Y Y Y Y

Fixture Type	Wattage	Voltage	CCT	Finish	Photocell (Option)	Sensor (Option)	Mounting	Photometry
<b>MAL02</b> Area Light Series	<b>150</b> 150W <b>200</b> 200W <b>250</b> 250W <b>300</b> 300W	<b>27V</b> 120-277V <b>48V</b> 347-480V	<b>40K</b> 4000K <b>50K</b> 5000K	<b>D</b> Dark Bronze <b>B</b> Black <b>W</b> White <b>SG</b> Silver Gray	<b>P0</b> 120-277V Photocell <b>P3</b> 347V Photocell <b>P4</b> 480V Photocell <b>Blank</b> Without Photocell	<b>M</b> With 120-277V Sensor <b>Blank</b> Without Sensor	<b>SQ</b> Square Pole Mount <b>SP</b> Slipfitter Mount <b>WM</b> Wall Mount	<b>T3</b> TYPE III Photometry <b>T4</b> TYPE IV Photometry <b>T5</b> TYPE V Photometry

Note: Input voltage may vary depends on photocell(sensor) configuration

# ADDITIONAL MOUNTING ACCESSORIES

POLE BRACKET • For mounting one fixture on an existing pole	
	<p><b>4" Square Pole Mount with 2-3/8" O.D. Tenon</b> No. 4SQ-SP-D Finish: Dark Bronze USE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.</p>
	<p><b>4" Round Pole Mount with 2-3/8" O.D. Tenon</b> NO. 4SQR-SP-D Finish: Dark Bronze USE: For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.</p>
	<p><b>5" Square Pole Mount with 2-3/8" O.D. Tenon</b> No. 5SQ-SP-D Finish: Dark Bronze USE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.</p>
	<p><b>5" Round Pole Mount with 2-3/8" O.D. Tenon</b> NO. 5SQR-SP-D Finish: Dark Bronze USE: For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.</p>
	<p><b>Pole Bracket accessories-Tenon &amp; Yoke Adaptor</b> NO. SP-TR-D Finish: Dark Bronze USE: The 2-3/8" OD Tenon Mount Adaptor for Yoke Fixtures is designed to mount MESTER light fixtures that are equipped with a yoke mount onto a 2-3/8" OD tenon. It may be utilized with the Mester Flood Light Series of light fixtures.</p>

# ADDITIONAL MOUNTING ACCESSORIES

<b>WALL BRACKET</b> <ul style="list-style-type: none"> <li>Attaches to any flat surface</li> <li>Provides wiring access</li> </ul>		<b>Mid-Pole tenon Bracket</b>	
	<b>90° Wall Mount Bracket with 2-3/8" O.D. Tenon</b> NO. WM-SP-D Finish: Dark Bronze USE: The 90° wall mount bracket with 2-3/8" tenon attaches an MESTER floodlight to almost any surface: wall, roof, or wood pole. Provides wiring access and abuilt-in 2-3/8" O.D. tenon to mount a fixture with our adjustable slipfitter. Suggested 3/8" diameter bolts for mounting. Mounting holes are spaced 3-1/4" apart.		<b>2-3/8" OD Horizontal Tenon Mid-Pole Bracket</b> NO. SQ-SP-D Finish: Dark Bronze USE: 2-3/8" OD Horizontal Tenon Mid-Pole Bracket is designed to mount light fixture that is equipped with an adjustable slipfitter onto a 2-3/8" OD horizontal tenon
<b>Round External Mount Horizontal Tenon · To mount 2/3/4 fixtures on a existing pole</b>			
	<b>Double 90° Horizontal Tenon Adaptor</b> NO. R60-SP2-90-D Finish: Dark Bronze USE: The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally		<b>Triple 120° Horizontal Tenon Adaptor</b> NO. R60-SP3-120-D Finish: Dark Bronze USE: The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally
	<b>Double 180° Horizontal Tenon Adaptor</b> NO. R60-SP2-180-D Finish: Dark Bronze USE: The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally		<b>Quad 90° Horizontal Tenon Adaptor</b> NO. R60-SP4-90-D Finish: Dark Bronze USE: The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Four fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally
	<b>Triple 90° Horizontal Tenon Adaptor</b> NO. R60-SP3-90-D Finish: Dark Bronze USE: The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally		

# BACKLIGHT CONTROL ACCESSORIES

	<b>Backlight Control</b> NO. SC-AL01-100W-BA USE: It will reduce the light spill behind the pole. Finish: Black Only suitable for 70W and 105W.
	<b>Backlight Control</b> NO. SC-AL01-150W-BA USE: It will reduce the light spill behind the pole. Finish: Black Only suitable for 150W to 300W.

# DLC Model NO.

SYSTEM WATTS	VOLTAGE	CCT	DIST.TYPE	DLC NO.	DLC Classification
150	120-277V	4000K	3	MAL02150W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		5000K	3	MAL02150W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		4000K	5	MAL02150W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
		5000K	5	MAL02150W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
	347-480V	4000K	3	MAL02150W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M][SQ,SP,WM]T3	Premium
		5000K	3	MAL02150W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M][SQ,SP,WM]T3	Premium
		4000K	5	MAL02150W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium
		5000K	5	MAL02150W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium
200W	120-277V	4000K	3	MAL02200W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		5000K	3	MAL02200W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		4000K	5	MAL02200W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
		5000K	5	MAL02200W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
	347-480V	4000K	3	MAL02200W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M][SQ,SP,WM]T3	Premium
		5000K	3	MAL02200W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M][SQ,SP,WM]T3	Premium
		4000K	5	MAL02200W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium
		5000K	5	MAL02200W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium
250W	120-277V	4000K	3	MAL02250W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		5000K	3	MAL02250W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		4000K	5	MAL02250W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
		5000K	5	MAL02250W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
	347-480V	4000K	3	MAL02250W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T3	Premium
		5000K	3	MAL02250W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T3	Premium
		4000K	5	MAL02250W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium
		5000K	5	MAL02250W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium
300W	120-277V	4000K	3	MAL02300W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		5000K	3	MAL02300W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		4000K	5	MAL02300W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
		5000K	5	MAL02300W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
	347-480V	4000K	3	MAL02300W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T3	Premium
		5000K	3	MAL02300W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T3	Premium
		4000K	5	MAL02300W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium
		5000K	5	MAL02300W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium