



ASPIRE® AP650

The Aspire® is a versatile luminaire suitable for area, roadway, site, and general lighting applications. Providing excellent vertical light distribution, high uniformity, and lasting performance, the Aspire® is ideal for commercial, institutional and municipal markets.



SternbergLighting

ESTABLISHED 1923

PROJECT: _____

TYPE: _____

ORDERING EXAMPLE: AP650-CA-20L50T4-L-MDH07-R1-MOT1-HSS-FHD-BK

AP650														
MOUNTING CONFIG.	SERIES	LENS	NO. OF LEDS	COLOR TEMP K	DISTRIBUTION TYPE	DISTRIBUTION ORIENTATION	DRIVER	CONTROLS	MOTION SENSOR	HOUSE SIDE SHIELD	DUAL FUSE & HOLDER	ARM	COLOR	
1WM	Large Vertical Tenon Mount	CA	20L	35(00) K	T2	F	MDL07	OPTIONS					UBKT	UB
1A				45(00) K	T3	R	MDL14	R1	MOT1	HSS	FHD	BA	UBT	USL
2A				50(00) K	T4	L	MDL21		MOT2			SM	USLT	UWH
2A90					T5	S	MDH07					WM	UWHT	UBK
3A					T2BL		MDH14							
3A90					T3BL		MDH21							
4A					T4BL									

A = Arm Mount W = Wall Mount (*Designate 1WCB if surface mount box required)

Product Specs

Optical

- BUG rating of U-0.
- IP66 rated optic module.
- Utilizes high output, high brightness LEDs.
- Operates at -40°C (-40°F) to +50°C (122°F) ambient air temperature range.
- Typical CRI of 75, CCT 3500, 4500, and 5000K.
- Call factory for custom CCT.
- LM-79 and LM-80 tests in accordance with IESNA standards.
- Lumen depreciation rating L70 > 150,000 hrs. Projected per TM-21 guideline and based on 2100mA drive current.
- RoHS Compliant.
- Back Light Optical Control (BLOC): T2BL, T3BL, T4BL

Electrical

- 120-277 volt and 347-480 volt available.

- Minimum drivers power factor: > 0.9.
- Terminal block 8AWG to 18AWG.
- Electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines (10KA).
- UL or ETL listed in U.S. and Canada.

Mechanical

- Rugged die-cast aluminum housing.
- Low profile Aero-dynamic design with integrated heat sink for optimum thermal management.
- Secure 4-bolt clamp allows for simple, secure installation on standard 2.375 in. tenon or mast arm.
- ANSI C136.31-2001 3G vibration rated.
- Tool-less driver access and removable driver tray.
- Meets the ANSI C136.31-2001 for Roadway Luminaire Vibration specifications for Bridge/Overpass applications. Tested for 3G by independent lab.

Controls

- Supplied with dimmable driver (0-10 volts).
- Supplied with Roto-lock photocell socket shorting cap.

Finish

- Durable, color retentive powder coat finish.

Warranty & Standards

LED Systems and Drivers - 7 years. All fixtures shall be free from all defects in materials and workmanship for a period of 7 years from the date of manufacture. The luminaire manufacturer shall warrant the LED boards/ system, during the stated warranty period, against failure defined as more than 10 percent of non-operating LEDs.

Motion Sensors:

- MOT1:** 360° lens, maximum coverage 40' diameter from 20' height
- MOT2:** 360° lens, maximum coverage 70' diameter from 20' height

Drivers (0-10V dimming):

- MDL07:** 700mA, 120-277V
- MDL14:** 1400mA, 120-277V
- MDL21:** 2100mA, 120-277V
- MDH07:** 700mA, 347-480V
- MDH14:** 1400mA, 347-480V
- MDH21:** 2100mA, 347-480V

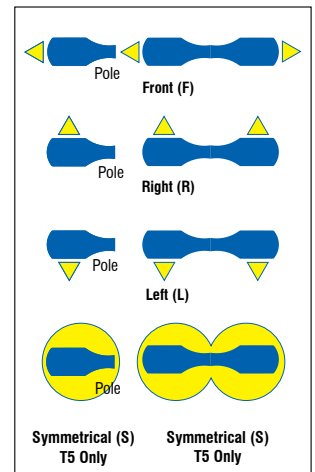
Lens:

CA - Clear Flat Acrylic

Color:

- UBKT** - Urban Black Textured
- UBT** - Urban Bronze Textured
- USLT** - Urban Silver Textured
- UWHT** - Urban White Textured
- UBK** - Urban Black Matte
- UB** - Urban Bronze Matte
- USL** - Urban Silver Matte
- UWH** - Urban White Matte

Distribution Orientation:

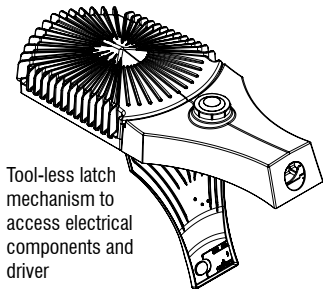


Performance

MODEL #	T2 LUMENS	BUG	EFFICACY (LPW)	T3 LUMENS	BUG	EFFICACY (LPW)	T4 LUMENS	BUG	EFFICACY (LPW)	T5 LUMENS	BUG	EFFICACY (LPW)	WATTS
20L45T_-MDL21	10345	B3U0G3	72.3	10030	B2U0G2	70.1	10065	B2U0G2	70.4	10900	B4U0G2	76.2	143
20L35T_-MDL21	9715	B3U0G3	67.9	9420	B2U0G2	65.9	9455	B2U0G2	66.1	10235	B3U0G2	71.6	143
20L27T_-MDL21	8530	B3U0G3	59.7	8270	B2U0G2	57.8	8295	B2U0G2	58.0	8985	B3U0G2	62.8	143
20L45T_-MDL14	8300	B3U0G3	83.0	8090	B2U0G2	80.9	8230	B2U0G2	82.3	8680	B3U0G2	86.8	100
20L35T_-MDL14	7795	B2U0G2	78.0	7600	B2U0G2	76.0	7730	B2U0G2	77.3	8150	B3U0G2	81.5	100
20L27T_-MDL14	6840	B2U0G2	68.4	6670	B2U0G2	66.7	6785	B2U0G2	67.9	7155	B3U0G2	71.6	100
20L45T_-MDL07	4510	B2U0G2	92.0	4465	B1U0G1	91.1	4505	B1U0G2	91.9	4740	B3U0G1	96.7	49
20L35T_-MDL07	4235	B2U0G2	86.4	4195	B1U0G1	85.6	4230	B1U0G1	86.3	4450	B3U0G1	90.8	49
20L27T_-MDL07	3720	B1U0G1	75.9	3680	B1U0G1	75.1	3715	B1U0G1	75.8	3905	B3U0G1	79.7	49

Product Dimensions and Features

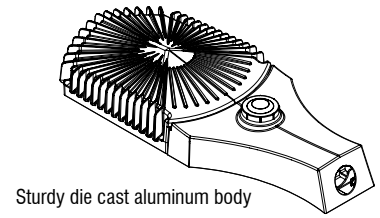
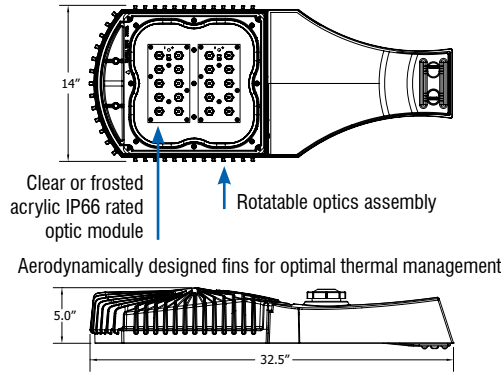
EPA: 1.13 SQUARE FT
WEIGHT: 34 LBS



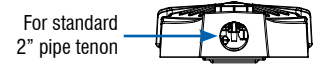
Tool-less latch mechanism to access electrical components and driver



Front view



Sturdy die cast aluminum body

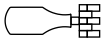


For standard 2" pipe tenon

Back view

Mounting Configurations

1W
(Wall Mount)
EPA 1.13 (ft²)



1A
EPA 1.13 (ft²)



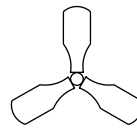
2A
EPA 2.26 (ft²)



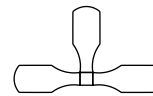
2A90
EPA 1.9 (ft²)



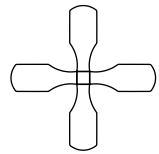
3A (Round Pole Only)
EPA 2.3 (ft²)



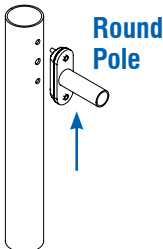
3A90
EPA 3.39 (ft²)



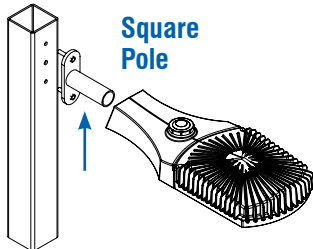
4A
EPA 3.42 (ft²)



Mounting Options



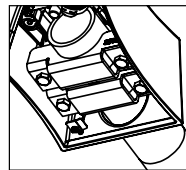
Round Pole



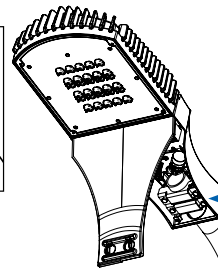
Square Pole

Separately sold bolt-on arm and pole kit. See options and accessories spec sheet for more information.

Existing Tenon by Others (Standard)

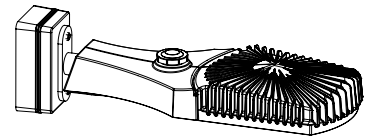


Rigid 4 bolt clamp



Integrated leveling in 6 steps

Wall Mount

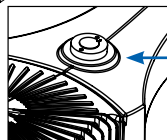
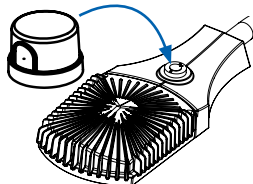


Kit sold separately. See options and accessories spec sheet for more information.

Other Options

P.C. Option

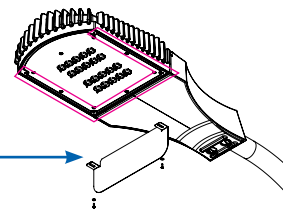
Roto-lock photocell



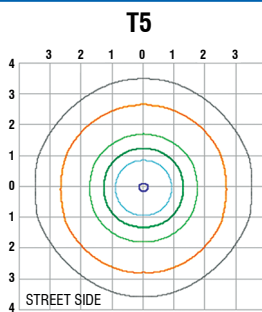
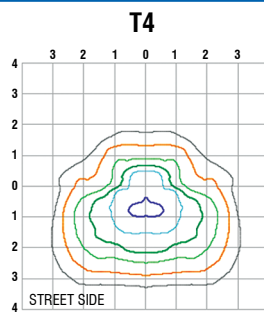
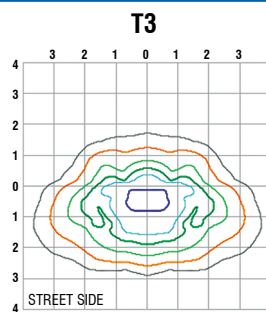
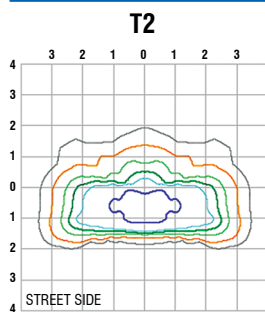
Photocell receptacle (standard)

HSS Option

Aluminum House Side Shield interchangeable to all 3 sides

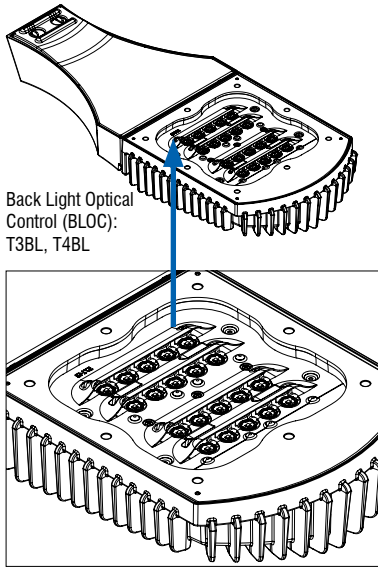


ISO Footcandle Plots



All published luminaire photometric testing performed to IESNA LM-79 standards by NV-LAP, certified laboratory. ISO footcandle plots above demonstrate the ASPIRE'S light patterns only. Not for total fixture output. For complete specifications and IES files, see website.

Performance



MODEL #	T2 LUMENS	BUG	EFFICACY (LPW)	T3 LUMENS	BUG	EFFICACY (LPW)	T4 LUMENS	BUG	EFFICACY (LPW)	WATTS
20L45T_BL-MDL21	8005	B1U0G2	56.0	8180	B1U0G2	57.2	7685	B1U0G2	53.7	143
20L35T_BL-MDL21	7520	B1U0G2	52.6	7685	B1U0G2	53.7	7220	B1U0G2	50.5	143
20L27T_BL-MDL21	6600	B1U0G2	46.2	6745	B1U0G2	47.2	6335	B1U0G2	44.3	143
20L45T_BL-MDL14	5645	B1U0G1	56.5	6305	B1U0G2	63.1	6255	B1U0G2	62.6	100
20L35T_BL-MDL14	5300	B1U0G1	53.0	5920	B1U0G2	59.2	5875	B1U0G2	58.8	100
20L27T_BL-MDL14	4655	B1U0G1	46.6	5195	B1U0G2	52.0	5155	B1U0G2	51.6	100
20L45T_BL-MDL07	3300	B0U0G1	67.3	3540	B0U0G1	72.2	3600	B0U0G1	73.5	49
20L35T_BL-MDL07	3100	B0U0G1	63.3	3325	B0U0G1	67.9	3380	B0U0G1	69.0	49
20L27T_BL-MDL07	2720	B0U0G1	55.5	2920	B0U0G1	59.6	2970	B0U0G1	60.6	49

