



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.



PROJECT: _____
TYPE: _____

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



AP650													
MOUNTING CONFIG.	SERIES	LENS	NO. OF LEDES	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					GR
1A				45(00) K	T3	R	MDL14	R1	MOT1	HSS	FHD	BA	ABZ
2A				50(00) K	T4	L	MDL21	PTM	MOT2			SM	BK
2A90					T5	S	MDH07					WM	
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.
- PTM: Intellistreets Post Top Module. Integrated audio and lighting control technology that includes on/off and dimming, colored flashers, integrated speaker, wireless mesh network, optional add-on functionality for wayfinding and security. Consult factory for details and pricing.

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

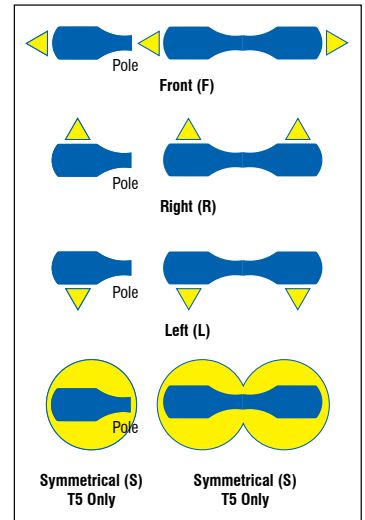
Lens:

CA - Clear Flat Acrylic

Color:

- GR - Gray
- ABZ - Architectural Medium Bronze
- BK - Black

Distribution Orientation:

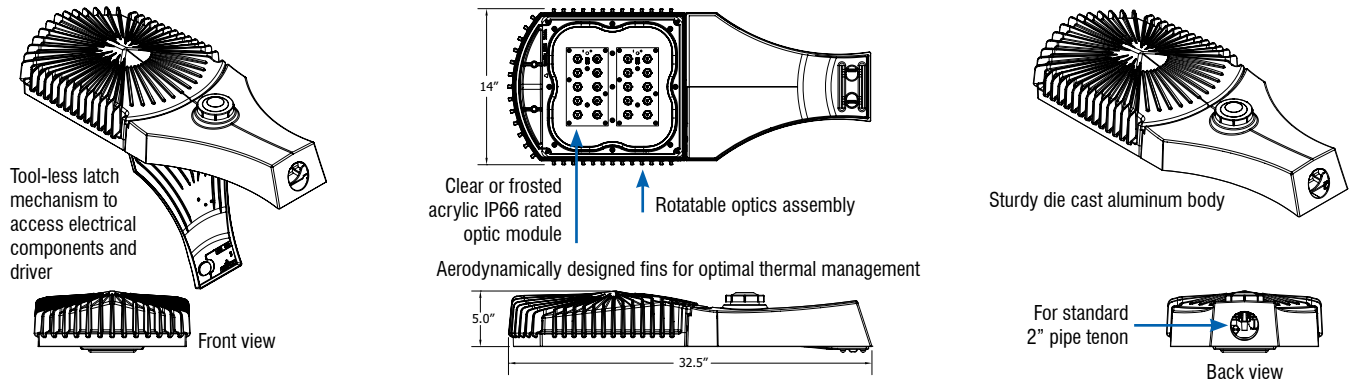


Performance

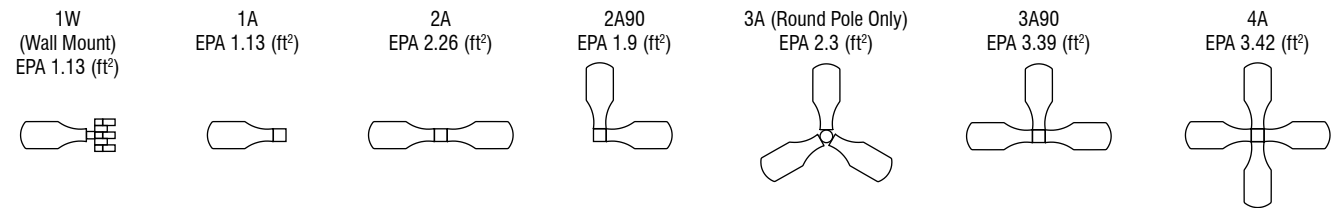
COLOR TEMP CCT	OPTICAL DISTRIBUTION	INPUT WATTS 49W	DRIVE CURRENT 700mA	EFFICACY (LPW)	BUG RATING B U G	INPUT WATTS 100W	DRIVE CURRENT 1400mA	EFFICACY (LPW)	BUG RATING B U G	INPUT WATTS 143W	DRIVE CURRENT 2100mA	EFFICACY (LPW)	BUG RATING B U G
		DELIVERED LUMENS				DELIVERED LUMENS				DELIVERED LUMENS			
3500K	T2	4160	85	2 0 2	7655	77	2 0 2	9545	67	3 0 3			
	T3	4115	84	1 0 1	7460	75	2 0 2	9255	65	2 0 2			
	T4	4155	85	1 0 1	7590	76	2 0 2	9290	65	2 0 2			
	T5	4370	89	3 0 1	8010	80	3 0 2	10,055	70	3 0 2			
4500K	T2	4505	92	2 0 2	8295	83	2 0 2	10,340	73	3 0 3			
	T3	4460	91	1 0 1	8085	81	2 0 2	10,030	70	2 0 2			
	T4	4500	92	1 0 2	8225	82	2 0 2	10,065	70	2 0 2			
	T5	4735	97	3 0 1	8680	87	3 0 2	10,895	76	4 0 2			
5000K	T2	4855	99	2 0 2	8935	89	3 0 3	11,135	78	3 0 3			
	T3	4805	98	1 0 1	8705	87	2 0 2	10,800	76	2 0 2			
	T4	4850	99	1 0 2	8855	89	2 0 2	10,840	76	2 0 2			
	T5	5100	104	3 0 1	9345	94	3 0 2	11,735	82	4 0 2			

Product Dimensions and Features

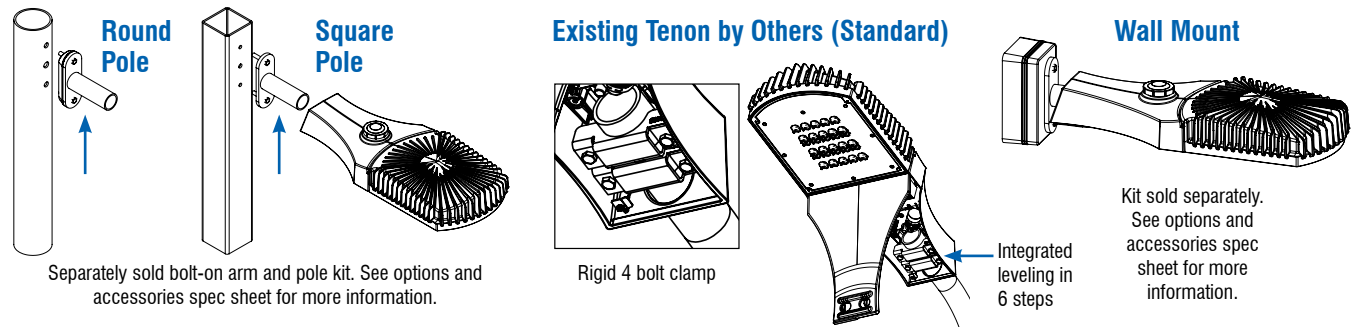
EPA: 1.13 SQUARE FT
WEIGHT: 34 LBS



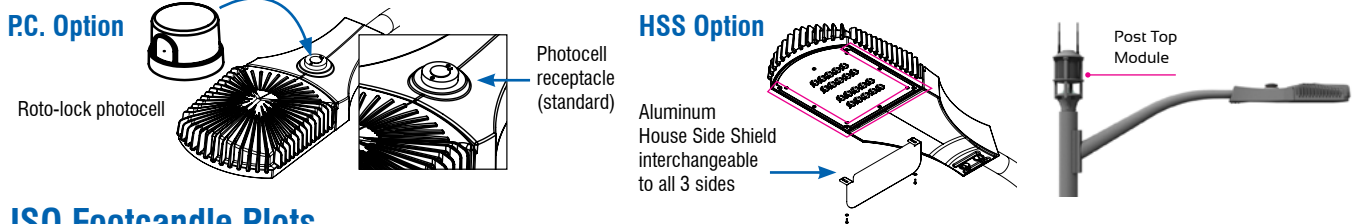
Mounting Configurations



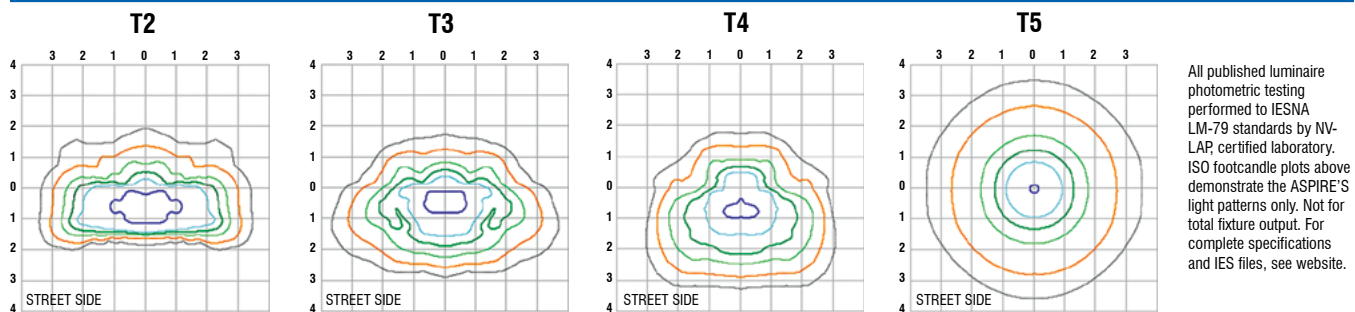
Mounting Options

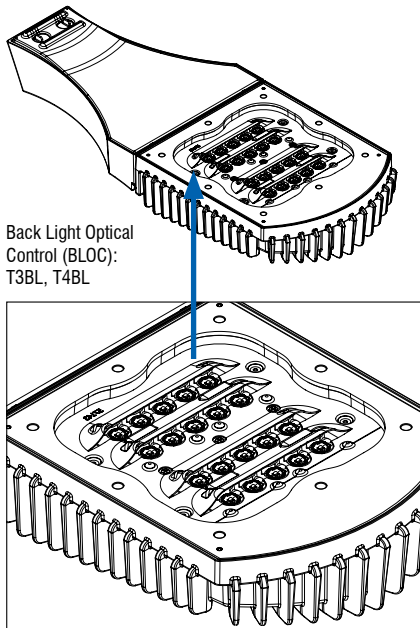


Other Options



ISO Footcandle Plots





Performance

MODEL	LUMEN	WATTAGE	EFFICACY	BUG		
				B	U	G
AP650/CA/20L35T4BL/MDL07	3325	49	68	0	0	1
AP650/CA/20L45T4BL/MDL07	3605	49	74	0	0	1
AP650/CA/20L50T4BL/MDL07	3880	49	79	0	0	1
AP650/CA/20L35T4BL/MDL14	5780	100	58	1	0	2
AP650/CA/20L45T4BL/MDL14	6260	100	63	1	0	2
AP650/CA/20L50T4BL/MDL14	6745	100	67	1	0	2
AP650/CA/20L35T4BL/MDL21	7110	143	50	1	0	2
AP650/CA/20L45T4BL/MDL21	7700	143	54	1	0	2
AP650/CA/20L50T4BL/MDL21	8295	143	58	1	0	2
AP650/CA/20L35T3BL/MDL07	3290	49	67	0	0	1
AP650/CA/20L45T3BL/MDL07	3565	49	73	0	0	1
AP650/CA/20L50T3BL/MDL07	3840	49	78	0	0	1
AP650/CA/20L35T3BL/MDL14	5860	100	59	1	0	2
AP650/CA/20L45T3BL/MDL14	6350	100	64	1	0	2
AP650/CA/20L50T3BL/MDL14	6840	100	68	1	0	2
AP650/CA/20L35T3BL/MDL21	7605	143	53	1	0	2
AP650/CA/20L45T3BL/MDL21	8235	143	58	1	0	2
AP650/CA/20L50T3BL/MDL21	8870	143	62	1	0	2

