

Product # _____ Type _____ Date _____

Project Name _____

Project Location _____ Prepared By _____

AP Series

Construction

- Housing is cast aluminum, heavy duty, structurally rigid and vibration resistant. Housing is finished black using polyester powder coat. Other optional finishes are available.
- Lens Door Assembly is minimum 1/8" thick tempered glass lens, thermal and impact resistant, sealed with doorframe and housing using extruded, memory retentive silicone gasket. The doorframe is cast aluminum.
- Heatsink is black anodized made of thick aluminum with maximum contact with cast housing for efficient heat dissipation and cooler operation for the LED Module for the long life operation.
- Base housing is die-cast aluminum. It is an enclosure for the electrical components. Housing/lens door assembly is separated by a shaft.

Optical System

- Optical system is designed to use with North Star SSL™ AlphaLED™ modules at 90% optical efficiency.
- ALXPG4 module (White or Single Color): Narrow spot 11° beam (N11) or medium flood with 26° beam (M26) or wide 46° beam (W46) or elliptical 38X21 horizontal beam (EH) or elliptical 21X38 horizontal beam (EV)
- ALXPE24 module (Color Mixing): Narrow spot 16° beam (N16) or medium flood with 24° beam (M24) or wide 40° beam (W40) or elliptical 48 x 18 horizontal beam (EH) or elliptical 18 x 48 horizontal beam (EV).



Made in the U.S.A.



Optional front Lenses are available. SL-Solite for soft beam, SK-Skytex for elliptical beam, IN-Industrex for medium wide beam or P73-Pattern 73 for wide beam distribution. These lenses shall allow flexibility for the choice of light beam patterns in addition to internal built in optic system.

Application

In compliant to UL 1598 and CSA C22.2 NO. 250.0 standards. Suitable for indoor/outdoor wet (IP65) or damp location use.

Ordering Guide

MODEL	LED MODULE CONFIG.	TOTAL LED POWER	CCT COLOR TEMP	LIGHT BEAM SPREAD	INPUT VAC	DRIVER/ CONTROLLER LOCATION	LIGHTING CONTROL	GLARE CONTROL
AP	4 x 04	55	CW	ELH	U	I	ND	V
AP	4 x 04	55	CW = 6K NW = 4.5K WW = 3K RD = Red GN = Green BL = Blue AM = Amber (Consult Factory)	N11 = 11° Narrow M26 = 26° Medium W46 = 46° Wide ELH=Ellip. Hor. ELV=Ellip. Vert.	U = Universal 110V to 277V C = 347V remote only V = 480V remote only	I = Integral R = Remote	DM = Dimming 1-10V remote BL = Bi-level dual output connections	V = Visor H = Hood
AP	2 x 24	100	CM = Color Mix	N16=16° Narrow M24=24° Medium W40=40° Wide ELH=Ellip. Hor. ELV=Ellip. Vert.			DX = DMX Interface ND = No DMX	SL-Solite Lens; SK-Skytex Lens; IN-Industrex Lens; P73-Pattern 73 Lens

AP Series

Electrical Components

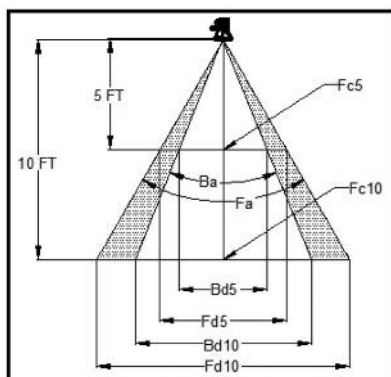
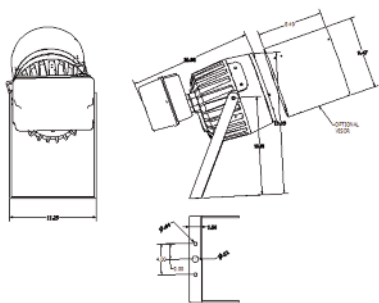
- AlphaLED™ Modules: AlphaLED™ modules are designed and manufactured using unprecedented heat management on copper metal core PCB board by North Star SSL®. AlphaLED™ module uses the latest high performance Cree XPG and XPE LEDs delivering highest lumen efficacy and over 50,000 hours of illumination life.
- LED Configuration: Six ALXPG4 (80W) or Two ALXPE24 (100W) operating below 85° junction temperature delivering maintained illumination to meet LM80 L70 lumen maintenance for greater than 50,000 hours of illumination life based on 25°C ambient operating temperature.
- Available LED Color Temperatures: 3000K, 4500K and 6000K. Also, available RGBW color mixing system with DMX interface.
- LED Drivers: UL/CSA recognized component to meet UL8750 & EN61347 (USR/CNR - E328335). Suitable for input power at 120-277VAC 50/60Hz.
- LED Controller (For color mixing application,): Exclusive North Star SSL® controller using non-PWM type, Cypress patented Prism Modulation Technology, produces low EMI and provide non-flickering smooth and continuous color mixing color wash or color fading effects. Supplied standard with pre-programmed demo color effects. Optional DMX module shall be available for DMX interface with the DMX networking.

Mounting

- Heavy duty yoke is provided with (2) 0.437 dia. Holes to mount on horizontal or vertical surface depending on application. The fixture is provided with 6 feet long, outdoor rated water resistant cable for the electrical connections to the nearest junction box (by others).

Photometric Application Data

Performance Values	Optic N11	Optic M26	Optic W46	Optic ELH	Optic ELV
Maximum Center Candela Cd-max	143366	31577	8893	29057	29057
Maximum Center Fc @ 5 ft Fc5	5740	1263	355.5	1162	1162
Maximum Center Fc @ 10 ft - Fc10	1434	316	89	291	291
Beam Angle @ 50% of Max. Fc - Ba degrees	15.8°	40°	88°	74° x 26°	26° x 74°
Field Angle @ 10% of Max Fc - Fa degrees	30°	80°	130°	118° x 57°	57° x 118°
Beam Diameter in feet @ 5 ft - Bd5	1.38	1.8	4.8	7.5 x 2.3	2.3 x 7.5
Field Diameter in feet @ 5 ft - Fd5	2.33	4.2	4.8	16.8 x 5.3	5.3 x 16.8
Beam Diameter in feet @ 105 ft - Bd10	2.75	3.6	9.6	15 x 4.6	4.6 x 15
Field Diameter in feet @ 10 ft - Fd10	4.66	8.4	19.2	33.7 x 10.6	10.6 x 33.7



Distance Multipliers

(Adjusted from 10 ft values)

Distance in Feet	Multiplier for Beam or Field	Multiplier for Footcandle values
10	1.00	1.0000
15	1.50	0.4444
20	2.00	0.2500
25	2.50	0.1600
50	5.00	0.0400
75	7.50	0.0178
100	10.00	0.0100
150	15.00	0.0044