| Product # | _ Type | _ Date |
|------------------|----------|--------|
| Project Name | , . | |
| • | | l n |
| Project Location | Prenared | 1 KV |

RF5 Series

Construction

- Housing is die-cast aluminum, heavy duty, structurally rigid and vibration resistant. Housing is finished charcoal gray 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 die-cast aluminum.
- Heatsink is black anodized made of thick aluminum with maximum contact with die die-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.
- ALXPG12 module (White or Single Color): Narrow spot 11° beam (N11) or medium flood with 26. beam (M26) or wide 46° beam (W46) or elliptical 38 x 21 horizontal beam (EH) or elliptical 21 x 38 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).



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 RF5 RF5 | LED MODULE CONFIG. 4 x 12 4 x 12 | TOTAL LED POWER 160 160 | CCT COLOR TEMP WW CW = 6K NW = 4.5K WW = 3K RD = Red GN = Green BL = Blue AM = Amber (Consult Factory) | LIGHT BEAM SPREAD ELH N11 = 11° Narrow M26 = 26° Medium W46 = 46° Wide ELH=Ellip. Hor. ELV=Ellip. Vert. | INPUT VAC U U = Universal 110V to 277V C = 347V V = 480V | DRIVER/ CONTROLLER LOCATION I I = Integral R = Remote | LIGHTING CONTROL ND DM = Dimming 1-10V remote BL = Bi-Level, dual output connections | GLARE CONTROL V V = Visor H = Hood |
|---------------------|-----------------------------------|-------------------------------------|---|---|--|--|--|--|
| RF5 | 4 x 24 | 200 | CM = Color Mix | N16=16° Narrow M24=24° Medium W40=40° Wide ELH=Ellip. Hor. ELV=Ellip. Vert. | | | DX = DMX Interface ND = No DMX | |



RF5 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: One ALXPG12 (40W) or one ALXPE24 (50W) 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.

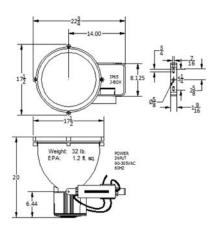
LED Controller (For color mixing application,): Exclusive North Star SSL® controller using non-PWM type, Cypress patented Prism Modulation Technology, produces low EMI and provide non-flickering smooth and continuous color mixing color wash or color fading effects. Supplied standard with pre-programmed demo color effects. Optional DMX module shall be available for DMX interface with the DMX networking.

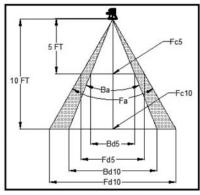
Mounting

 Heavy duty yoke is provided with (2) 0.437 dia. Holes to mount on horizontal or vertical surface depending on application. Also sealed type water resistant 1/2" conduit connector is provided for the electrical connections.

Photometric Application Data

| Performance Values | Optic N11 | Optic M26 | Optic W46 | Optic ELH | Optic ELV |
|--|-----------|-----------|-----------|-------------|-------------|
| Maximum Center Candela Cd-max | 286732 | 63153 | 17785 | 58114 | 58114 |
| Maximum Center Fc @ 5 ft Fc5 | 11480 | 2526 | 711 | 2324 | 2324 |
| Maximum Center Fc @ 10 ft - Fc10 | 2867 | 632 | 178 | 581 | 581 |
| 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 | 9.6 | 33.7 x 10.6 | 10.6 x 33.7 |





Distance Multipliers (Adjusted from 10 ft values)

| Distance | Multiplier for | Multiplier for |
|------------|----------------|-------------------|
| in Feet | Beam or Field | 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 |
| <i>7</i> 5 | 7.50 | 0.0178 |
| 100 | 10.00 | 0.0100 |
| 150 | 15.00 | 0.0044 |

