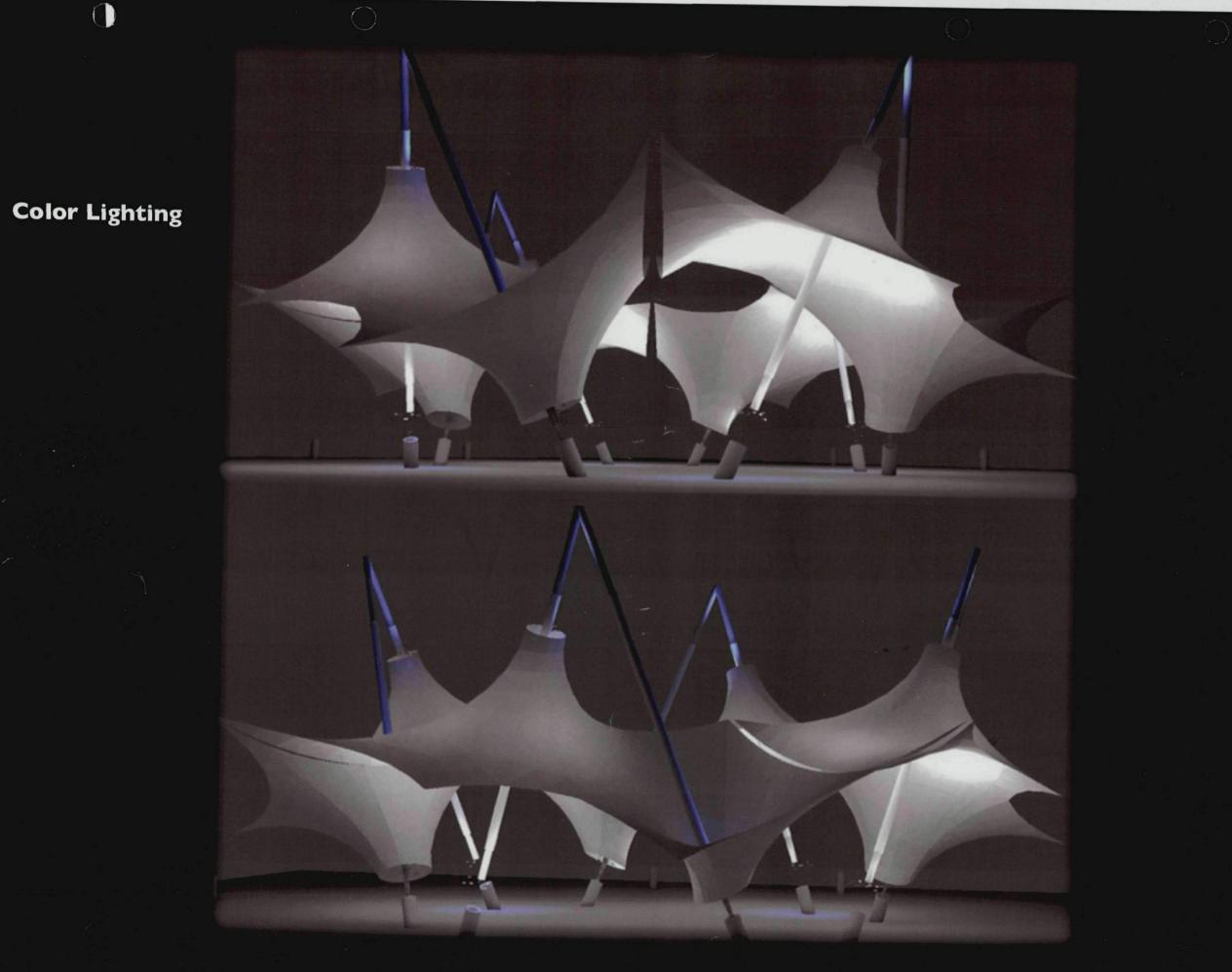


# SkySong

Lighting Concept January 26, 2009

TANTERI + ASSOCIATES



# FIXTURE CUTS

### FIXTURE TYPE

# F-3

#### **Specifications**

#### Exterior 200 LED ™

Exterior 200 LED, Aluminum, EU model, Medium: P/N 90545010 Exterior 200 LED, Aluminum, EU model, Wide: P/N 90545020 Exterior 200 LED, Aluminum, EU model, no diffuser: P/N 90545040 Exterior 200 LED. Aluminum, US model, Narrow: P/N 90545100 Exterior 200 LED, Aluminum, US model, Medium: P/N 90545110 Exterior 200 LED, Aluminum, US model, Wide P/N 90545120 Exterior 200 LED, Aluminum, US model, no diffuser: P/N 90545140 Exterior 200 LED, White, EU model, Narrow: P/N 90545002 Exterior 200 LED, White, EU model, Medium: P/N 90545012 Exterior 200 LED, White, EU model, Wide: P/N 90545022 Exterior 200 LED, White, EU model, no diffuser: P/N 90545042 Exterior 200 LED, White, US model, Narrow: P/N 90545102 Exterior 200 LED, White, US model, Medium: P/N 90545112 Exterior 200 LED. White. US model. Wide: P/N 90545122 Exterior 200 LED, White, US model, no diffuser: P/N 90545142

#### Photometric Data

Very Narrow (Balanced white 5600 Kelvin. Without diffuser)

Efficiency 0% Half-peak angle: 13° Total output 1500 lm

Very Narrow (Balanced white 5600 Kelvin.

Efficiency 0% Without diffuser)

Half-peak angle: 13° Total output: 1500 lm

Narrow (Balanced white 5600 Kelvin)

Efficiency: 0% Half-peak angle: 21°

Total output 1400 lm

Narrow (Balanced white 5600 Kelvin)

Efficiency 0% Half-peak angle: 21°

Total output 1400 lm

Medium (Balanced white 5600 Kelvin)

Efficiency 0%

Half-peak angle: 27° Total output 1300 lm

Medium (Balanced white 5600 Kelvin)

Efficiency: 0%

Half-peak angle: 27° Total output: 1300 lm

Wide (Balanced white 5600 Kelvin)

Efficiency 0% Half-peak angle: 32°

Total output: 0 im

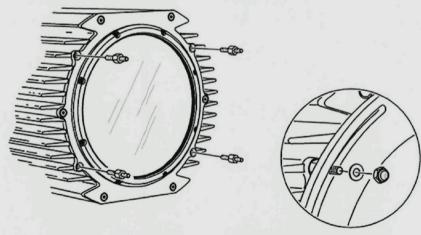
Wide (Balanced white 5600 Kelvin) Efficiency: 0%

Half-peak angle. 32° Total output. 0 Im

x 8 x 4

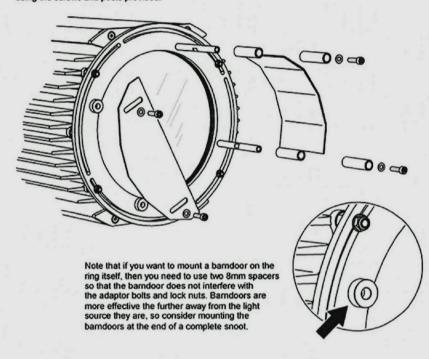
This installation note describes the mounting of snoot plates and/or barndoors on an Exterior 200 or Exterior 600. Barndoors are typically used for beam shaping and control, while snoot plates are used to reduce glare. You can mount a complete or partial snoot (using the 1/4 circle snoot plates), one or more barndoors, or any combination of these. The illustrations depict an Exterior 600, but the process is the same for Exterior 200 fixtures.

Remove 4 screws from the front (as shown) and mount the 4 adaptor bolts. Cross-tighten with a torque of 3 Nm (2.2 Ft-lbs) for the Exterior 600 and 1.8 Nm (1.3 Ft-lbs) for the Exterior 200.

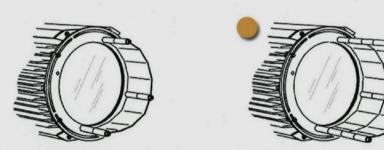


Mount the ring over the adaptor bolts, so that the bolts protrude through the guides in the ring. Attach the washers and lock nuts, but do not tighten them fully at this point.

Mount the barn doors and snoot plates in the required configuration using the screws and posts provided.

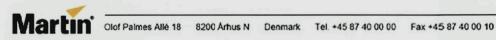


Lastly, rotate the ring to align the beam correctly and tighten the lock nuts.



To extend the snoot plates further than one level, you need an extension kit. This extension makes the lamp more sensitive to severe winds and the fixture should be secured with this in mind.

Extension Kit Exterior 600: P/N 91611030 Extension Kit Exterior 200: P/N 91611032



## FIXTURE CUTS

#### FIXTURE TYPE

F-2

#### **Specifications**

7870MH WITH 25 DEGREE BEAM ANGLE

Large scale floodlights with very narrow beam light distribution

Housing: Two piece die-cast aluminum consisting of a reflector housing with integral yoke mounting flanges and a separate cylindrical ballast housing with cooling fins. Ballast housing is secured to reflector housing by two stainless steel latches which allow easy access to the ballast. All aluminum used in the construction is marine grade and copper free.

Enclosure: Two piece die-cast aluminum consisting of an outer lens frame and a inner accessory holder. The lens is secured between the two die-castings and is hinged to provide easy lamp maintenance. Two captive, stainless steel fasteners seal the lens/ frame assembly to the reflector housing. Tempered glass lens, 3/16" thick. One piece molded, U-channel, high temperature silicone rubber gasket.

Mounting Yoke: 3/18" thick stainless steel allows for full vertical adjustment with die-cast aluminum aiming angle indicators and two (2) heavy duty stainless steel locking bolts. Yoke is provided with mounting holes for various BEGA mounting accessories.

Electrical: Lampholders: G12, bi-pin porcelain with nickel plated contacts, pulse rated 5 KV. Ballasts are integral, magnetic, HPF, available in 120V or 277V - specify.

Finish: These luminaires are available in five standard BEGA colors: Black (BLK): White (WHT); Bronze (BRZ); Silver (SLV); Eurocoat™ (URO). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

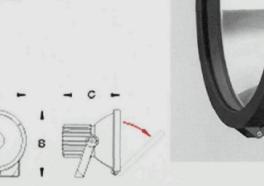
U.L. listed, suitable for wet locations. Protection class: IP 67.

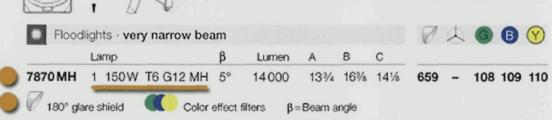
#### Mounting options:

- 435 Mounting bracket for pole top Ø 3\*
- 553 Pole mount canopy for 5" O.D. pole
- 554 Wall mount canopy
- 550 Pole mount arm for for 5" O.D. pole
- 551 Wall mount arm
- 555 Pole mount hub for pole top Ø 3" 762 Pole top for 2 floodlights
- 763 Pole top for 3 floodlights
- 764 Pole top for 4 floodlights 766 Pole top for 6 floodlights
- 761 Cross beam for 3 floodlights
- 765 Cross beam for 6 floodlights

CUSTOM WIDE BEAM ANGLE WITH FROSTED GLASS.



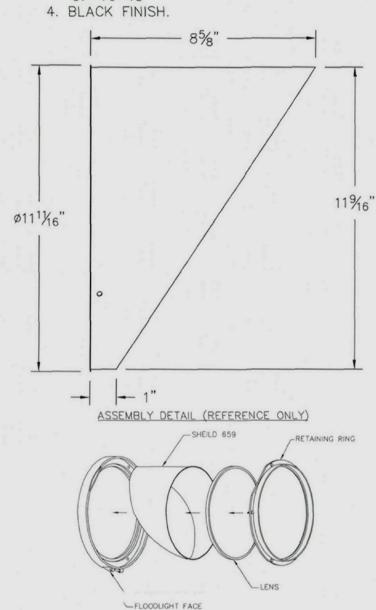




BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com @copyright BEGA-US 2008 Updated 2/08

#### NOTES:

- 1. ACCESSORY #659 -SEE SPECIFICATIONS
- 2. SHEILD ATTACHES TO FLOODLIGHT
- 3. CAN BY INSTALLED BY 360°, PREVENTS LATERAL GLARE FROM ONE DIRECTION UP TO 45°



Catalog No.: 659 **BEGA** Description: FLOODLIGHT SHIELD Drawn by: DBN Date: 9/5/07 File Name: 659 1000 Bega Way Carpinteria, Ca. 93013 (805) 684-0533 SCALE: NONE - DO NOT SCALE DRAWING

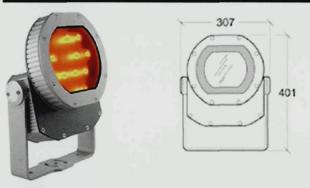
# FIXTURE CUTS

# FIXTURE TYPE

F-3

#### **Specifications**

#### Exterior 200 LED ™



The Exterior 200 LED is a long-life programmable luminaire offering full RGB + Amber and White color mixing. Weatherproofed for outdoor use, it features 44 high power LEDs and a choice of lens options.

- 44 high power LEDs in 5 colors: Red, Green, Blue, Amber and white
- · RGBAW color mixing, broader range of colors
- · Choice of narrow, medium or wide beam options
- · High optical performance: uniform distribution of light and color
- · 0-100% intensity control
- · Weatherproof rating: IP65
- DMX, stand-alone, synchronized (master/slave)
- \* Choice of DMX control modes: RGB, RGBAW, HSI, F

Physical Length: 169 mm (6.7 in.) including cable gland

Width: 307 mm (12.1 in.) Height: 401 mm (15.8 in.)

Weight: 7.6 kg (16.8 lbs.) including bracket



Dynamic Effects Color mixing: RGBAW

Red: 0 - 100% Green: 0 - 100% Blue: 0 - 100% Amber: 0 - 100% White: 0 - 100%

Control and Programming

Color control modes: RGBAW, RGB, HSI, HSIC

Control options: DMX, stand-alone, synchronized (master/slave)

DMX channels: 3, 4 or 5

DMX address setting: PC with Martin MUM software and DABS1 hardware interface

Stand-alone trigger options: Internal timer and/or ambient light level

Stand-alone and master/slave programming: PC with Martin MUM software and DABS1 hardware

interface 26-bit control (internal): RGBAW, RGB, HSI, HSIC

Protocol: USITT DMX512-A

Receiver RS-485

Firmware update: Serial upload via DMX link

Photometric Data Light source: Luxeon K2 high power emitters

Total output: 1400 lm with narrow diffuser, balanced white 5600 K at 25° C (77° F)

Half-peak angle: 21° with narrow diffuser

Minimum LED source lifetime (to 50% of initial output level). 30 000 hours at full intensity

Construction Color: Clear anodized, white, custom colors to special order

Housing: Anodized aluminum

Mounting bracket 8 mm (0.3 in.) anodized aluminum Front glass: 6 mm (0.2 in.) anti-reflection coated

Protection rating: IP65

Installation Orientation: Any

Vertical aiming: 330\*

Minimum distance to illuminated surfaces: 0.1 m (0.3 ft.)

Connections Power cable entry: IP68 cable gland

Power connection: 1.8 m (5.9 ft.) cable tail

Data cable entry: IP68 cable gland

Data connection: 1.8 m (5.9 ft.) combined input + output cable tail

Electrical AC power: 100-240 V nominal, 50/60 Hz

Typical power consumption (at 100 V, 50/60 Hz): 139 W Power supply unit. Integrated, auto-sensing multi-voltage

Main fuse: 2.5 AT (slow blow)

Typical Power and Current 100 V, 50 Hz: 139 W, 1.4 A, PF 0.990

100 V, 60 Hz: 139 W, 1.4 A, PF 0.989

110 V, 60 Hz: 137 W, 1.3 A, PF 0.988

120 V. 60 Hz: 136 W. 1.2 A. PF 0.986

208 V. 60 Hz: 133 W. 0.7 A. PF 0.932

230 V. 50 Hz 132 W. 0.7 A. PF 0.925

240 V, 50 Hz: 131 W, 0.7 A, PF 0.886

Measurements made at nominal voltage with all LEDs at full intensity. Allow for a

deviation of +/- 10%.

Thermal Cooling: Convection

Maximum ambient temperature (Ta max.): 45° C (113° F)

Minimum ambient temperature (Ta min.): -30° C (-22° F)

Maximum surface temperature, steady state, Ta=40° C (104° F): 90° C (194° F)

Total heat dissipation (calculated, +/- 10%): 860 BTU/hr.

Approvals



EU safety: EN 60598-1, EN 60598-2-1, IEC/EN 60825-1 EU EMC EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3 US safety (US model): UL 1598

Canadian safety (US model): CAN/CSA C.22.2 No. 250

Martin\* Olof Palmes Allé 18 8200 Arhus N Denmark Tel. +45 87 40 00 00 Fax +45 87 40 00 10

Included Items Adjustable mounting yoke

Diffuser (installed) depending on model

Accessories Narrow beam angle kit (diffuser sheet): P/N 41600110

Exterior 200 floor stand: P/N 91611305

Ordering Information Exterior 200 LED, Aluminum, EU model, Narrow: P/N 90545000

Medium beam angle kit (diffuser sheet). P/N 41600111

3-pin male XLR connector, cable-type, IP65: P/N 91611306

3-pin female XLR connector, cable-type, IP65: P/N 91611307

Wide beam angle kit (diffuser sheet): P/N 41600112

User manual: P/N 35000211

Safety eyebolt: P/N 91611239

Spare Parts 2.5 AT main fuse: P/N 05020010

COLUMN ACCENT LIGHTING

(B) TYPE F-3 IN HALF-RADIAL PATTERN

(B) TOP RING OF COLUMN 'B'

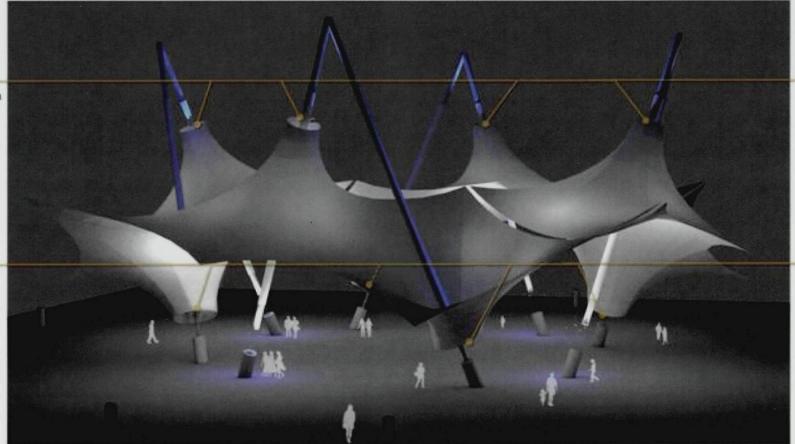
(3 AIM UP / 5 AIM DOWN)

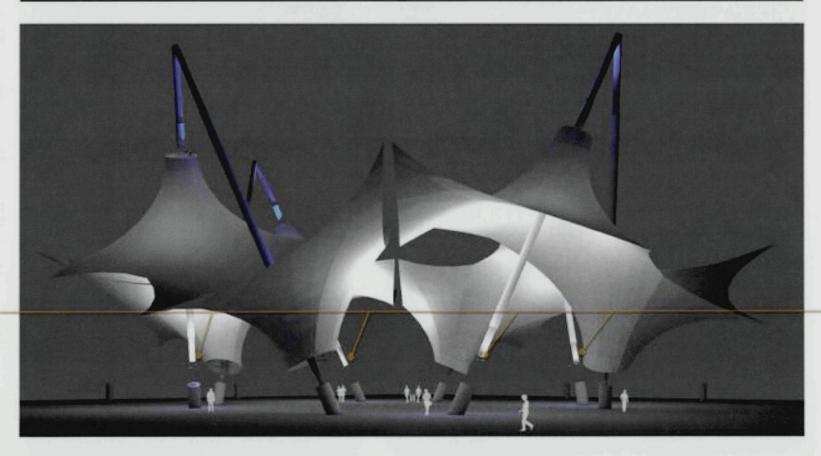
TOTAL: (32) F3 FIXTURES

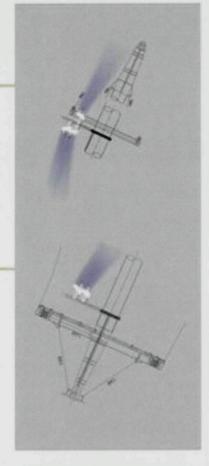
COLUMN ACCENT LIGHTING

(5) TYPE F-3 IN HALF RADIAL
PATTERN @ BASE OF COLUMN 'A'

(3 UNITS AIM UP TO MIDDLE OF
COLUMN/ 2 UNITS AIM UP TO TOP
OF COLUMN)
TOTAL: (20) F3 FIXTURES









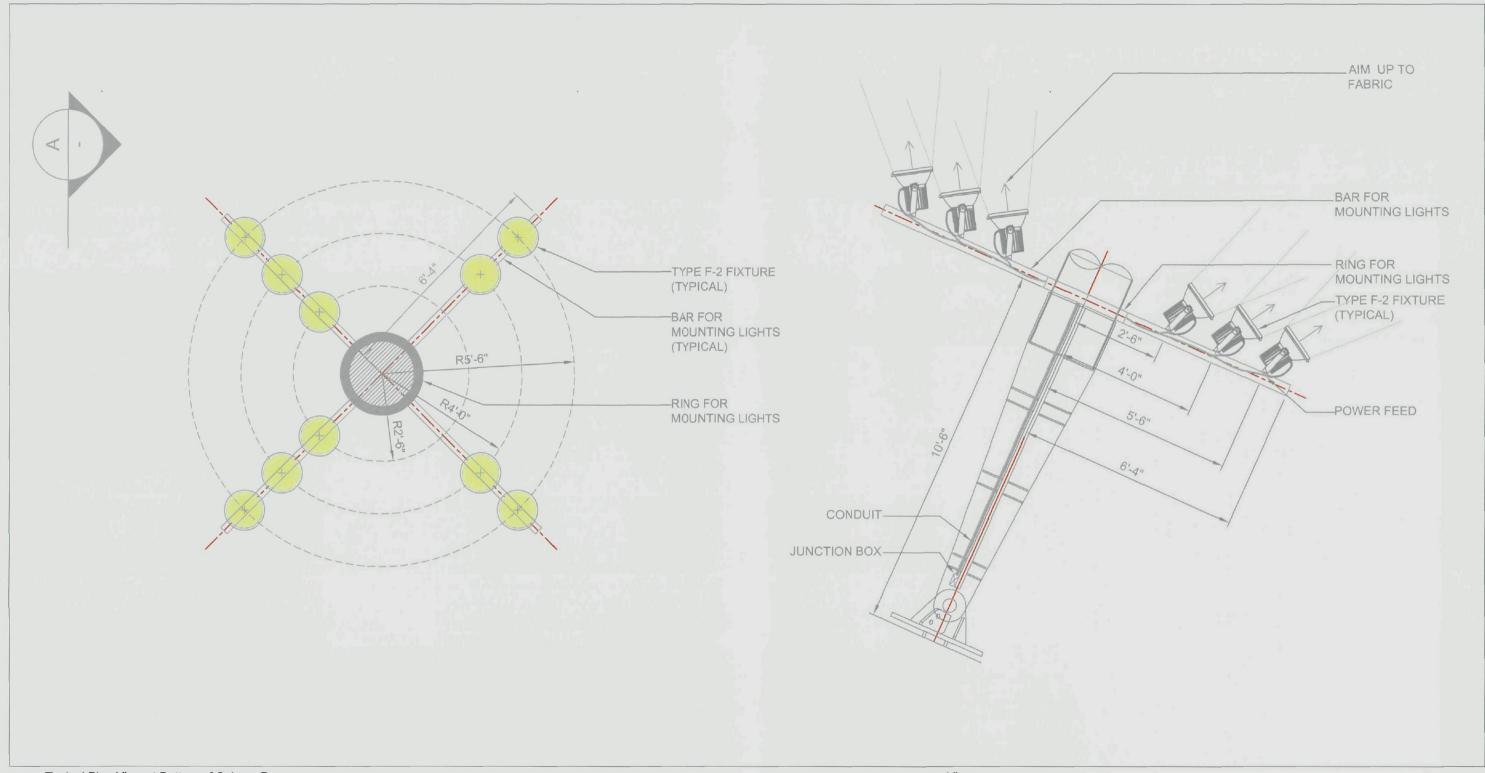
FABRIC UPLIGHTING

(10) TYPE F-2 IN RADIAL PATTERN

@ BASE OF EACH COLUMN 'B'

TOTAL: (40) F2 FIXTURES

TANTERI + ASSOCIATES, LLC



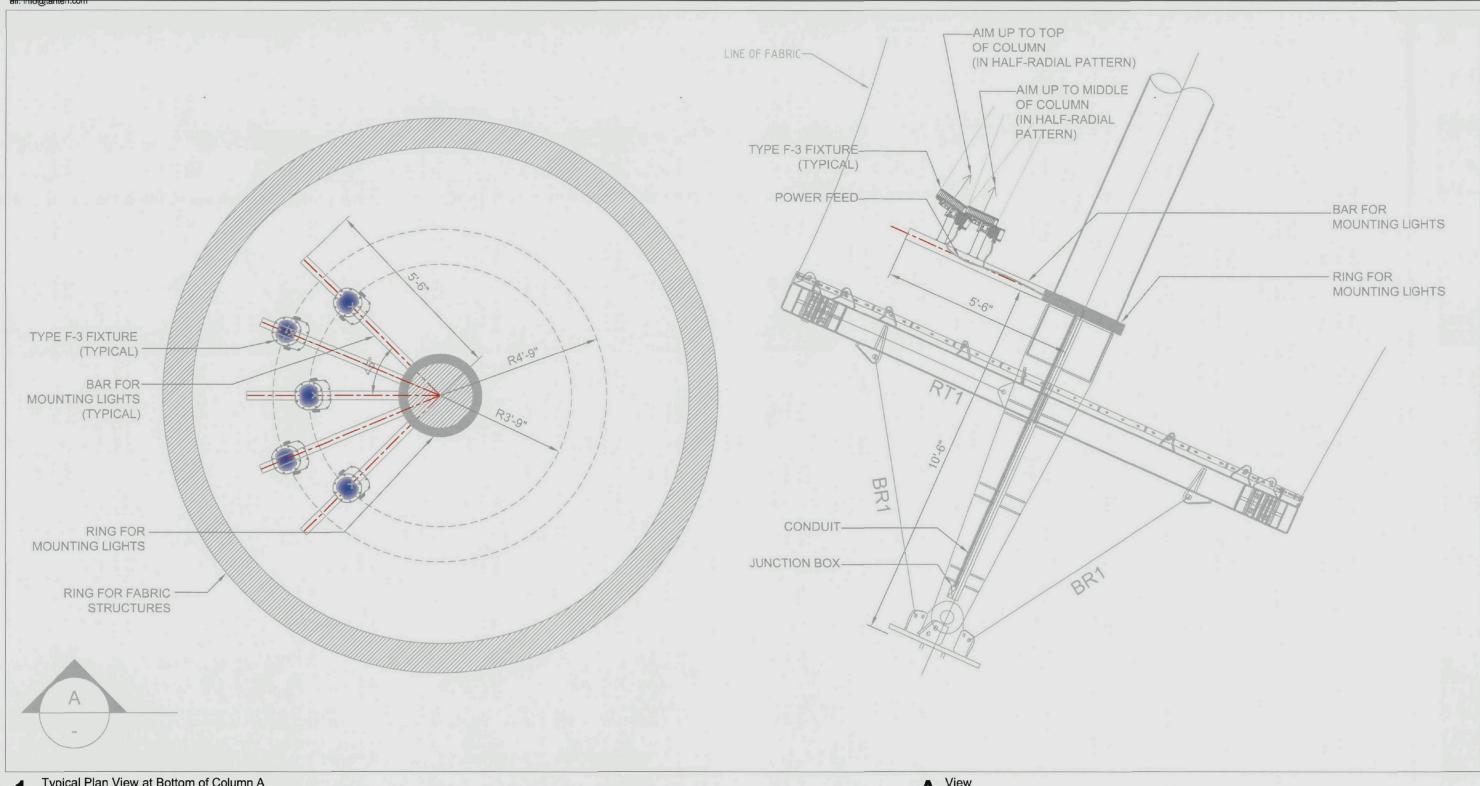
Typical Plan View at Bottom of Column B Scale: 3/8" = 1'-0"

**A** View Scale: 3/8" = 1'-0"

Lighting Detail: TYPE F-02 @ COLUMN B

NOTES: Drawing for design intent only. NOT for construction.

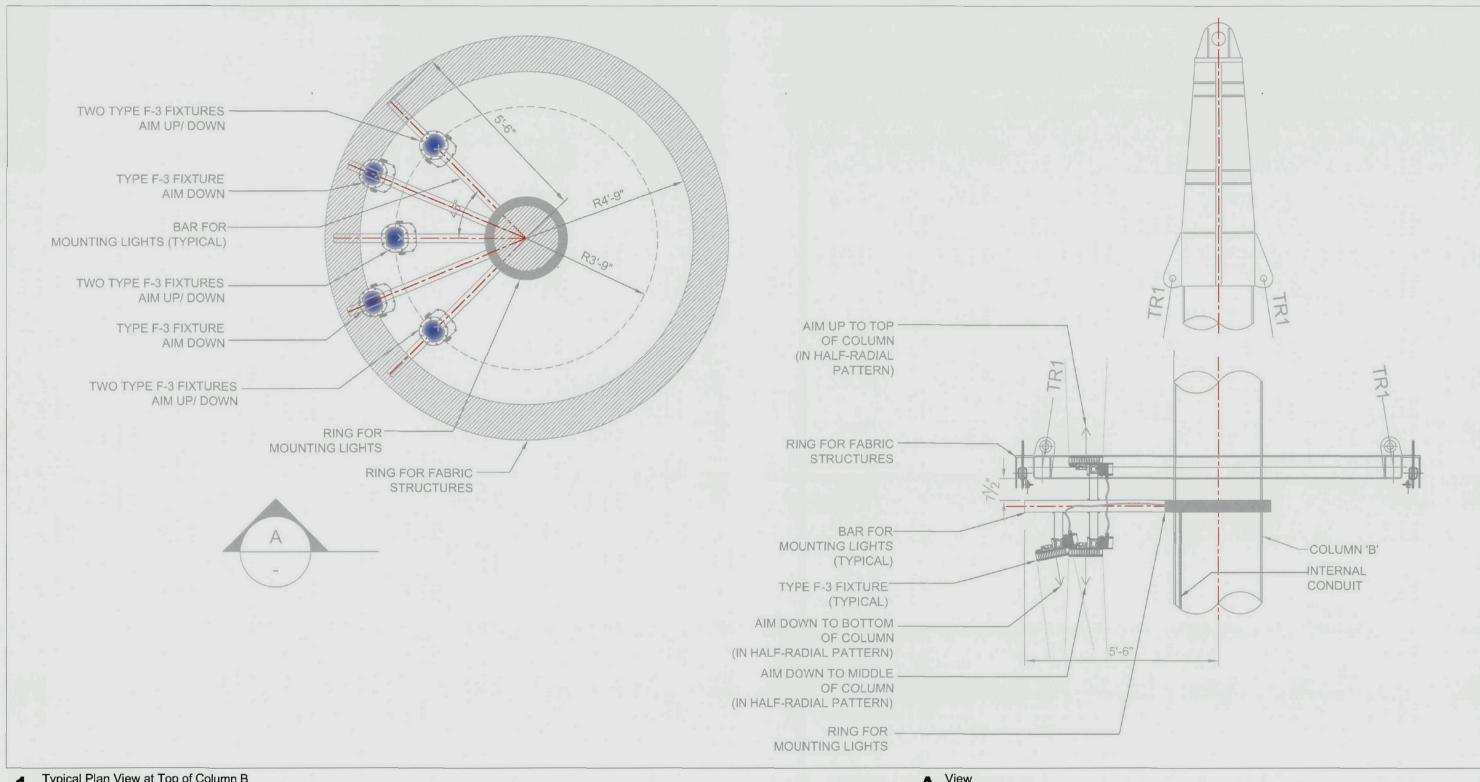
665 Broadway, Suite 706E, New York, NY 10012 tel: (212) 674-4488 fax: (212) 674-4025 em



Typical Plan View at Bottom of Column A Scale: 3/8" = 1'-0"

**A** View Scale: 3/8" = 1'-0"

Lighting Detail: TYPE F-03 @ COLUMN A



Typical Plan View at Top of Column B Scale: 3/8" = 1'-0"

**A** View Scale: 3/8" = 1'-0"

Lighting Detail: TYPE F-03 @ COLUMN B

NOTES: Drawing for design intent only. NOT for construction

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Numeric Summary
Label CalcType Units Avg Max
CalcPts-Floor Illuminance Fc 1.94 5.2



