

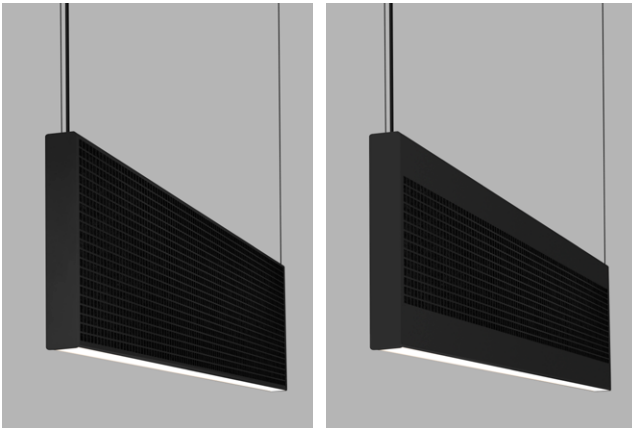
AUDIA

ACOUSTIX - STATIC WHITE, BIOS ST/DY

LUMENWERX

Project: _____

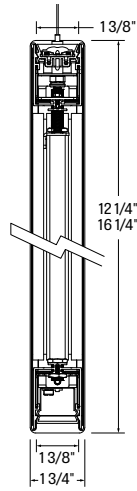
Type: _____



Full perforation

Half perforation

Section View



Direct/Indirect

Our premium acoustic offering Audia uses the science of Helmholtz resonance to trap acoustic waves through aluminum lattice, wrapped around proprietary sound absorbing material. With its slim core, narrow body and multiple color options, Audia was designed from the ground up with sound and light engineering in mind. Using our patent pending EchoCore™ technology we have constructed layers of sound absorbing material coupled with precise air pockets into a patterned aluminum body with a curved soft regress light reveal without compromising luminaire performance in our HLO (High-efficiency Lambertian optic) optics that delivers excellent efficacy. Audia is available in Static White and Bios biologically optimized options. Chromawerx QUADRO, DUO and SOLA are also available, see separate spec sheets.

Performance

Based on 3500K, 80CRI

| DISTRIBUTION | TOTAL LUMENS PER 4FT | EFFICACY lm/W |
|-----------------|----------------------|---------------|
| Direct | 2000 lm | 74 lm/W |
| Direct/Indirect | 4400 lm | 94 lm/W |
| Indirect (WIO2) | 3000 lm | 108 lm/W |

Order Guide

| LUMINAIRE ID | DISTRIBUTION | DIRECT OPTIC Specify NA for Indirect fixture | INDIRECT OPTIC Specify NA for Direct fixture | LIGHT SOURCE | CRI |
|--|---|---|---|---|--|
| AUDFACOP - Audia Full Perforation Pendant AUDHACOP - Audia Half Perforation Pendant | DI ¹ - Direct/Indirect D - Direct I ¹ - Indirect | HLO - High-Efficiency Lambertian Optic NA - Not applicable | WIO2 - Widespread Indirect Optic NA - Not applicable | SW - Static white BIOSST - Static biologically-optimized lighting BIOSDY - Dynamic biologically-optimized lighting | 80 - 80CRI 90 ² - 90CRI ² Not available with BIOS. |

| DIRECT LUMEN PACKAGE Specify NA for Indirect fixture | INDIRECT LUMEN PACKAGE Specify NA for Direct fixture | COLOR TEMP. | LUMINAIRE LENGTH | LUMINAIRE HEIGHT | VOLTAGE | DRIVER |
|---|---|---|---|--|---|--|
| 350 - Min. low output 350lm/ft 500 - Medium output 500lm/ft 750 ^{3,4} - Max. high output 750lm/ft NA - Not applicable | 350 - Min. low output 350lm/ft 500 - Medium output 500lm/ft 750 ^{3,4} - Max. high output 750lm/ft NA - Not applicable | 27 ⁵ - 2700K 30 - 3000K 35 - 3500K 40 - 4000K | Standard individual sections (nominal length): 4', 8', 12' Continuous runs: lengths over 12' #FT ⁶ - specify nominal length (#) in 4 foot increments ⁶ Consult factory for other lengths. | 12 - 12 inches 16 - 16 inches | 120 -120V 277 - 277V UNV - 120V-277V 347 ⁷ - 347V | DI - 1% 0-10V DA ⁸ - DALI LDE1 ⁸ - Lutron Hi-Lume 1% Eco ⁸ On-site commissioning is required. |

| ELECTRICAL | MOUNTING | FIXTURE FINISH | PERFORATION OPTION | FIXTURE INTERIOR COLOR | OPTIONS | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|--|
| 1 - 1 circuit 2 - 2 circuits +#EB ⁹ - Emergency battery +#EM - Emergency light circuit +#NL - Night light circuit ⁹ Not available with BIOS-DY. | 53WAC36W ¹⁰ - 36" aircraft cable, white canopies (5" power + 3" non-power), white power cord 53WAC36B ¹⁰ - 36" aircraft cable, white canopies (5" power + 3" non-power), black power cord 55WSW18 - 18" white stem, white canopies (5" power + 5" non power) ¹⁰ Power cord is 6" longer than suspension length. Consult factory for other lengths. | AL - Aluminum B - Matte black W - Matte white CF# - Custom finish, specify RAL# | SQ - Square RD - Round CP# - Custom perforation | <table border="0"> <tr> <td> FWT</td> <td> LMT</td> <td> IVT</td> <td> IGT</td> </tr> <tr> <td> TBT</td> <td> LNT</td> <td> LET</td> <td> SYT</td> </tr> <tr> <td> CDT</td> <td> OGT</td> <td> SDT</td> <td> BLT</td> </tr> <tr> <td> TPT</td> <td> CVT</td> <td> CFT</td> <td> MDT</td> </tr> <tr> <td> FOT</td> <td> PMT</td> <td> MOT</td> <td></td> </tr> </table> | FWT | LMT | IVT | IGT | TBT | LNT | LET | SYT | CDT | OGT | SDT | BLT | TPT | CVT | CFT | MDT | FOT | PMT | MOT | | FU - Fuse TB# - T-bar caddy clip, specify grid size TG# - Tegular caddy clip, specify grid size ST - Screw slots caddy clip CU - Custom |
| FWT | LMT | IVT | IGT | | | | | | | | | | | | | | | | | | | | | | |
| TBT | LNT | LET | SYT | | | | | | | | | | | | | | | | | | | | | | |
| CDT | OGT | SDT | BLT | | | | | | | | | | | | | | | | | | | | | | |
| TPT | CVT | CFT | MDT | | | | | | | | | | | | | | | | | | | | | | |
| FOT | PMT | MOT | | | | | | | | | | | | | | | | | | | | | | | |

Project: _____

Type: _____

Fixture Interior Colors



FWT - FROST WHITE



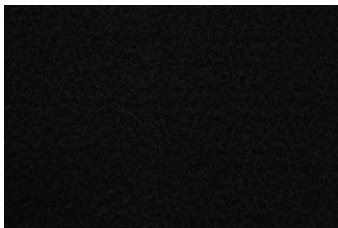
LMT - LIME



IVT - IVORY



IGT - ICEBERG



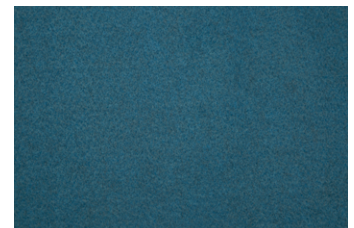
TBT - TRUE BLACK



LNT - LEMON



LET - LATTE



SYT - SKY



CDT - CLOUDY



OGT - ORANGE



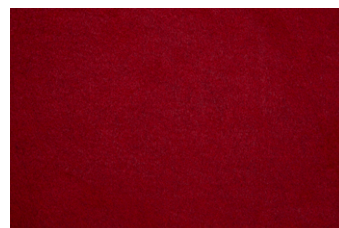
SDT - SAND



BLT - BLUEBERRY



TPT - TAUPE



CYT - CHERRY



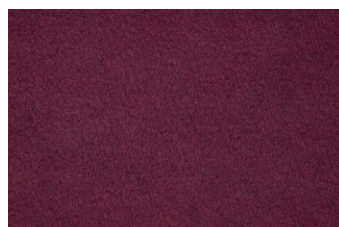
CFT - CAFÉ



MDT - MIDNIGHT BLUE



FOT - FOG



PMT - PLUM



MOT - MOCHA

AUDIA

ACOUSTIX - STATIC WHITE, BIOS ST/DY

LUMENWERX

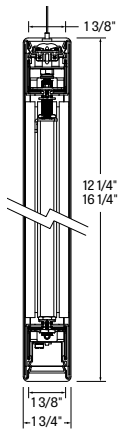
Project: _____

Type: _____

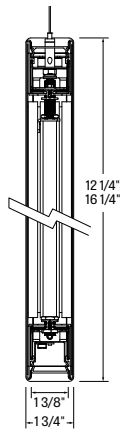
DIMENSIONS

Section Views

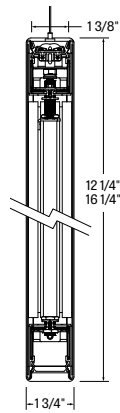
Direct/Indirect



Direct

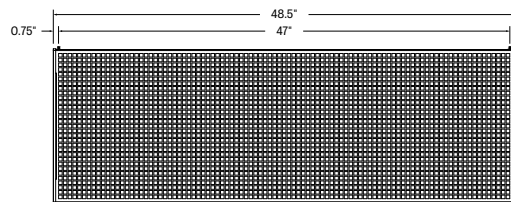


Indirect

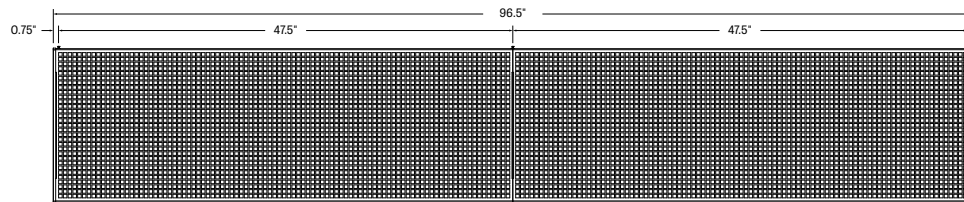


Front Views

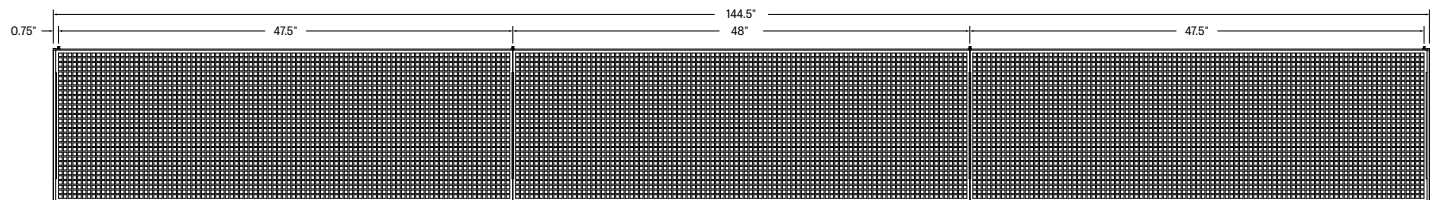
4'



8'



12'



ACOUSTIC CALCULATOR

Using the Lumenwerx Acoustix Value Calculator table, you can determine the number of acoustic luminaires required in a space by fixture type. We have three levels of recommended sound reduction: good, better, and best. Choosing one of these options will reduce the sound accordingly. The best option indicates the best acoustic improvement. Calculations are based on a standard ceiling height of 9 feet.



- ① Calculate the square feet of your room (L x W).
- ② Choose the level of acoustical improvement you are looking for, and find the corresponding value based on your room dimension and luminaire configuration.

| % in reduction in reverberation time | | |
|--------------------------------------|--------|-----|
| 😊 | GOOD | 25% |
| 😊😊 | BETTER | 40% |
| 😊😊😊 | BEST | 50% |

| LENGTH | HEIGHT | Room dimensions under 300 sq ft | | | Room dimensions over 300 sq ft | | |
|---------|--------|---------------------------------|--------------|-------------|--------------------------------|--------------|-------------|
| | | GOOD 😊 | BETTER 😊😊 | BEST 😊😊😊 | GOOD 😊 | BETTER 😊😊 | BEST 😊😊😊 |
| 4 Feet | 12" | 38 | 19 | 12 | 60 | 29 | 19 |
| | 16" | 51 | 25 | 17 | 84 | 39 | 26 |
| 8 Feet | 12" | 76 | 38 | 24 | 120 | 58 | 38 |
| | 16" | 102 | 50 | 34 | 168 | 78 | 52 |
| 12 Feet | 12" | 114 | 57 | 36 | 180 | 87 | 57 |
| | 16" | 153 | 75 | 51 | 252 | 117 | 78 |

- ③ Use the Lumenwerx Acoustix Value Formula to determine the number of luminaires needed in the room.

$$\text{Square feet} \div \text{Value} = \text{Number of luminaires}$$

Example:

Luminaires: Audia, 4 ft long, 16" high
Room square feet: L: 20 ft x W: 18 ft = 360 sq ft
Desired acoustical improvement: Better = 39
Number of luminaires needed in the room: 360 ÷ 39 = **10 luminaires**

NOTES:

- You can mix lit and blank fixtures.
- Lumenwerx acoustic calculators were developed to act as a guide. For precise acoustic performance in a space, please consult an acoustician.

Technical Specifications

OPTICS

High-Efficiency Lambertian Optic (HLO) - shielding of diffusing 0.075" thick acrylic with up to 88% transmission and good source obscuration. Luminaire brightness is controlled by the flux-to-shielding area ratio.

Widespread Indirect Optic (WIO2) - Vertically oriented LED arrays couple light into a linear light guide. A specially designed TIR/microstructure extracts light into the desired "batwing" distribution with smooth ceiling brightness and wide spacing.

LIGHT SOURCE - LED

Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operate at reduced drive current to optimize efficacy and lumen maintenance.

LUMINAIRE LENGTH

Audia is made up of standard 4, 8, and 12 foot individual sections that may be joined together to create longer continuous run lengths. Exact run length must be noted in the product code. The minimum individual section available is 4 feet, and continuous run lengths can be ordered in 4-foot increments.

All individual sections are joined together onsite using the joiner kits provided. Lumenwerx joiner kits are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% Eco and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

EMERGENCY REMOTE

Factory installed long life high temperature recyclable Ni-Cad battery pack with test switch and charge indicator, minimum of 90 minutes operation, up to 1000 lumens per 4ft (25°C) emergency lighting output. Recharge time of 24 hours.

WEIGHT

Direct - Audia 4ft: 16.16lbs - 7.3kg

Direct/Indirect - Audia 4ft : 17.86lbs - 8.10kg

Indirect - Audia 4ft: 16.16lbs - 7.3kg

MOUNTING OPTIONS

For cable-mounted fixtures - 53WAC36 (5" white canopy for all power mounting point, 3" white canopy for non power mounting point, and a 36" cable)

For stem mounted fixtures - 55WSW18 (5" white canopy for all power mounting point, and non power mounting point, and a 18" white stem)

Caddy clips, if required specify under OPTIONS

CONSTRUCTION

Housing - Extruded aluminum (0.095" nominal) up to 90% recycled content

Interior brackets - Die formed cold rolled sheet steel 18 gauge thick

Joining system - Die cast zinc (0.95" nominal)

Reflectors - Cold rolled steel 0.024" thick precisely die formed, 95% reflective matte white painted

Diffuser - 0.075" thick acrylic, 88% transmission

Perforated panel - Die cut aluminum panel (18 gauge aluminum sheet)

End caps - Die cast aluminum (0.95" nominal)

Hanger - Chromed Griplock securely attached with spring steel hardware in end caps and/or joiners

Aircraft cable suspension - 7x7 braids aluminum aircraft cable 0.06" thick

Stem - 0.5" diameter threaded steel tube matte white or aluminum powder coating. Custom finishes are also available.

FINISH

Interior - 95%, reflective matte powder coated white paint

Exterior - powder-coat paint in standard white, black, or aluminum. Custom colors are available (provide RAL #).

ACOUSTIC FINISH

Material is 100% polyester containing up to 50% of recycled plastic bottles (PET) with an ASTM E-84 Class A fire rating and is moisture resistant.

CARE

Remove dust and debris by wiping down with a clean, dry or damp, soft, lint-free cloth, or vacuum

ENVIRONMENT

Ambient temperature at fixture location shall not exceed 30°C/86°F, indoor use, dry or damp locations.

CERTIFICATIONS:

ETL - Rated for Indoor Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

WARRANTY

Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

AUDIA

ACOUSTIX - STATIC WHITE, BIOS ST/DY

LUMENWERX

Project: _____

Type: _____



WELL for Light - The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the construction and features of a luminaire. In WELL V1, it's Feature 54 Circadian Lighting, Feature 55 Glare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature L04 Glare Control, and Feature L07 Electric Light Quality.

This fixture meets Features:

- Feature 54 or L03 when BIOS LED is selected
- Feature 55 or L04 meets WELL glare category (a-c-d)
- Feature 58 or L07 when 90CRI is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5 % or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.



WELL for Sound - This luminaire is recommended for use as an acoustical absorption surface to limit reverberation times (RT) in a given space. This luminaire contributes to noise reduction and vibration dampening to promote focus and concentration. Reverberation needs to be calculated in each space based on the materials used.

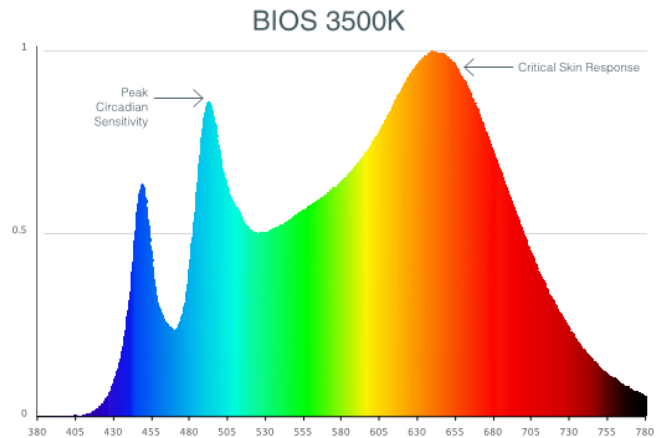


WELL for Mind -This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, smooth optics, and a sound diminishing element. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information please contact well@lumenwerx.com.



BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being. The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (460 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.

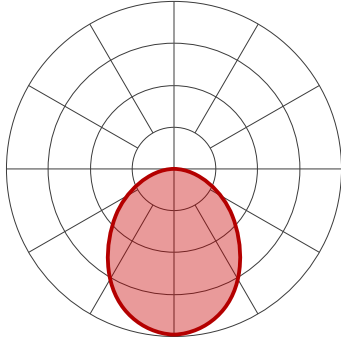


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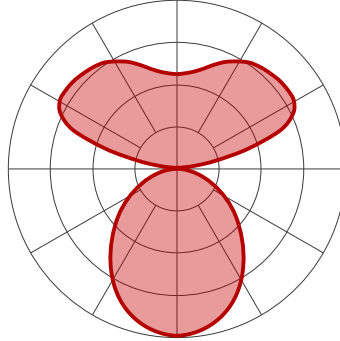
Type: _____

Photometrics

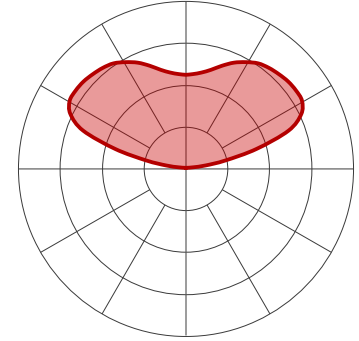
Please follow the multiplier tables to ensure correct lumen value lensing CCT and CRI will change the lumen output.



DIRECT



DIRECT/INDIRECT



INDIRECT

DIRECT

HLO-FH Delivered Lumens for Flush at 35K 80CRI

| Lumens per Foot | Total Lumens Per 4FT | Input Watts | LPW |
|-----------------|----------------------|-------------|-----|
| 350 | 1400 | 19.5 | 72 |
| 500 | 2000 | 27 | 74 |
| 750 | 3000 | 41 | 73 |

DIRECT

Multiplier - CCT/CRI

| CCT (K) | Watts Multiplier | | LPW Multiplier | |
|---------|------------------|-------|----------------|-------|
| | CRI80 | CRI90 | CRI80 | CRI90 |
| 2700 | 1.05 | 1.26 | 0.95 | 0.79 |
| 3000 | 1.01 | 1.23 | 0.99 | 0.81 |
| 3500 | 1.00 | 1.20 | 1.00 | 0.84 |
| 4000 | 1.00 | 1.17 | 1.00 | 0.85 |

DIRECT/INDIRECT

HLO-FH-WIO2 Delivered Lumens for Flush at 35K 80CRI

| Lumen Package (Direct + Indirect) | Direct | Indirect | Total Lumens Per 4FT | Input Watts | LPW |
|-----------------------------------|--------|----------|----------------------|-------------|-----|
| 350+350 | 1400 | 1400 | 2800 | 32.47 | 86 |
| 350+500 | 1400 | 2000 | 3400 | 38.21 | 89 |
| 350+750 | 1400 | 3000 | 4400 | 47.04 | 94 |
| 500+350 | 2000 | 1400 | 3400 | 40.15 | 85 |
| 500+500 | 2000 | 2000 | 4000 | 45.89 | 87 |
| 500+750 | 2000 | 3000 | 5000 | 54.72 | 91 |
| 750+350 | 3000 | 1400 | 4400 | 54.47 | 81 |
| 750+500 | 3000 | 2000 | 5000 | 60.2 | 83 |

DIRECT/INDIRECT

Multiplier - CCT/CRI

| CCT (K) | Watts Multiplier | | LPW Multiplier | |
|---------|------------------|-------|----------------|-------|
| | CRI80 | CRI90 | CRI80 | CRI90 |
| 2700 | 1.04 | 1.06 | 0.96 | 0.96 |
| 3000 | 1.01 | 1.09 | 0.97 | 0.92 |
| 3500 | 1.00 | 1.08 | 1.00 | 0.93 |
| 4000 | 0.98 | 1.06 | 1.02 | 0.95 |

INDIRECT

WIO2 Delivered Lumens at 35K 80CRI

| Lumens per Foot | Total Lumens Per 4FT | Input Watts | LPW |
|-----------------|----------------------|-------------|-----|
| 350 | 1400 | 13.11 | 107 |
| 500 | 2000 | 18.84 | 106 |
| 750 | 3000 | 27.67 | 108 |

INDIRECT

Multiplier - CCT/CRI

| CCT (K) | Watts Multiplier | | LPW Multiplier | |
|---------|------------------|-------|----------------|-------|
| | CRI80 | CRI90 | CRI80 | CRI90 |
| 2700 | 1.04 | 1.06 | 0.96 | 0.96 |
| 3000 | 1.01 | 1.09 | 0.97 | 0.92 |
| 3500 | 1.00 | 1.08 | 1.00 | 0.93 |
| 4000 | 0.98 | 1.06 | 1.02 | 0.95 |