

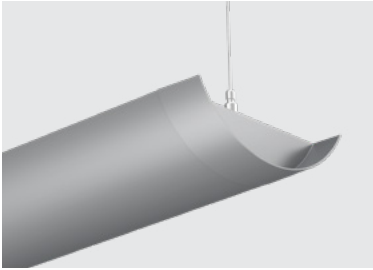
PAZ LED

PENDANT INDIRECT



LUMENWERX
WWW.LUMENWERX.COM

WIDESPREAD INDIRECT



Shown with regressed end cap



Shown with sloped end cap

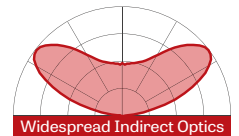
PROJECT: _____

TYPE: _____

NOTES: _____

DESCRIPTION

Constructed of extruded and die-cast aluminum, Paz measures just over 6" across - the smallest curved profile available today. A choice of end cap treatments and suspension options, as well as continuous runs in 2' increments, provide design flexibility. Paz incorporates our high performance widespread indirect optics and delivers comfortable totally indirect lighting with up to 109 lumens per watt. ChromaWerx Duo and Sola provide tunable white options. (See separate spec sheets.)



up to 109 lm/w performance

ORDER GUIDE

PAZPI	WIO	LED				
LUMINAIRE ID	END CAP	OPTICS	LIGHT SOURCE	CRI	LUMEN PACKAGES	COLOR TEMP.
PAZPI - Paz pendant indirect	RE - Regressed end cap SL - Sloped end cap	WIO - Widespread indirect optics	LED - High performance LED	80 - 80CRI 90 - 90CRI	500 - min. low output 500lm/ft 750 - medium output 750lm/ft 1000 - high output 1000lm/ft 1200 - max. ultra high output 1200lm/ft #### - other required lm/ft	27 - 2700k 30 - 3000k 35 - 3500k 40 - 4000k

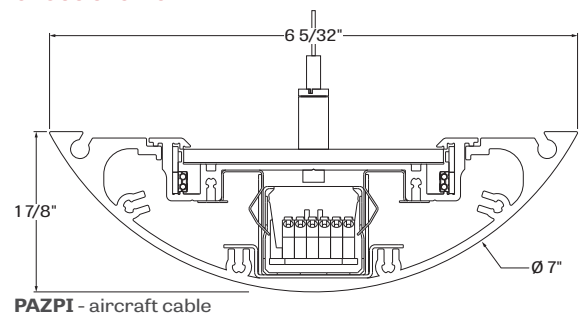
LUMINAIRE LENGTH	VOLTAGE	DRIVER	ELECTRICAL
#FT - nominal length in feet Standard sections - 2', 4', 6', 8' & 12' Continuous Run - for luminaires over 12'	120 - 120V 277 - 277V UNV - 120V-277V 347 - 347V	D1 - 1% dimming 0-10V DA - Dali LTEA2W - Lutron 1% - 2 wire FF 120V LDE1 - Lutron Hi-lume 1% Eco LDE5 - Lutron 5% EcoSystem	1 - 1 circuit +EB - emergency battery (min 4' fixture, except Lutron) +EM - emergency light circuit +NL - night light circuit +GTD### - generator transfer device, 120V or 277V

MOUNTING	FINISH
53WAC36 - power 5" + non power 3" white canopy (36" aircraft cable) SC53WAC36 - Sliding cables suspension, power 5" + non power 3" white canopy (36" sliding aircraft cable) 55WSW18 - power 5" + non power 5" white canopy & stem (18" stem) 55W2SW18 - power 5" + non power 5" white canopy & two stems (18" stems - max 4') For all other options refer to our Pendant Mounting Guide	W - matte white AL - aluminum CF# - custom finish specify RAL#

CONTROLS	OPTIONS
STANDALONE CONTROLS OMS - Onboard Occupancy ODS - Onboard Daylight OCS - Onboard Occupancy & Daylight CONNECTED CONTROLS CCS() - LU-Lutron, EN-Enlighted, OS-Osram, CR-Crestron. To specify see information on page 3	FU - fuse TB# - T-bar caddy clip specify grid size TG# - Tegular caddy clip specify grid size ST - Screw Slots caddy clip CU - custom

See page 2 for ordering code detailed information

CROSS SECTION

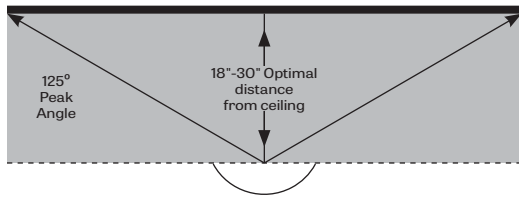


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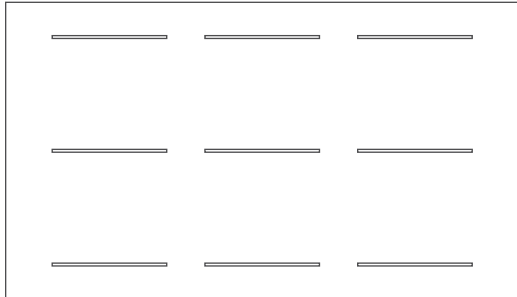
OPTICS

Widespread Indirect Optic (WIO) -

The LumenWerx Widespread Indirect Optic (WIO) uses two vertically oriented LED arrays that couple light into the edges of a linear light guide. A specially designed TIR/microstructure extracts light into the desired “batwing” distribution. Peak intensity hits at 125° while suppressing direct uplight. Peak-to-zenith intensity ratio is 2:1, outstanding for a narrow luminaire. The Widespread Indirect Optic produces noticeably smoother ceiling brightness than a typical lambertian uplight distribution, permitting generally wider spacing as well.



SPACE CALCULATION



Room: 58'Wx36'Lx11.5'H
 Suspension: 30"
 Fixture spacing: 12'x16'
 PAZPI-WIO-LED-80-1200-35-12FT
 Indirect Lumen Output: 1200 lm/ft
 Efficacy: 105LPW
 LLF: 0.9
 LPD: 0.59Watt/Sq.Ft.
For Workplane:
 Avg Illuminance= 40.67FC
 Uniformity Max/Min=3.09
 Uniformity Avg/Min= 2.36
For Ceiling:
 Avg Illuminance= 69.08FC
 Uniformity Max/Min= 12.93
 Uniformity Avg/Min= 6.71

LIGHT SOURCE - LED

Custom linear array of mid-flux LED's are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 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.

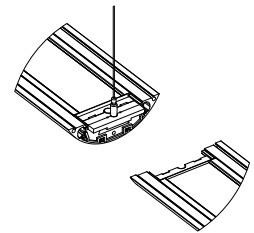
All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

PERFORMANCE PER 4' AT 4000K

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	4000K	18.5	2000	109
medium output	4000K	28	3000	108
high output	4000K	36.5	4000	109
ultra high output	4000K	44	4800	109

LUMINAIRE LENGTH

Paz is made up of standard 2, 4, 6, 8 and 12 foot 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 2 foot, and continuous run lengths can be ordered in 2 feet increments. All individual sections are joined together onsite using the joiner kits provided. LumenWerx offers joiner kits that 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.



joining system Paz indirect

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% (specify 2-wire, or Ecosystem Dim-to-Off), Lutron 5-Series (5% Ecosystem), DMX (RDM compatible) and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

EMERGENCY

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.

WIDESPREAD INDIRECT

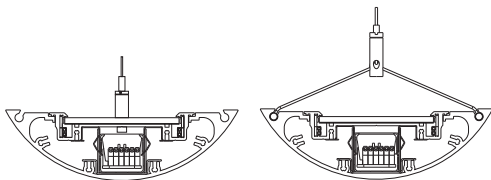
MOUNTING OPTIONS

Fixtures can be suspended using aircraft cable or stems.

Unless otherwise specified, LumenWerx provides the following hardware:

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)

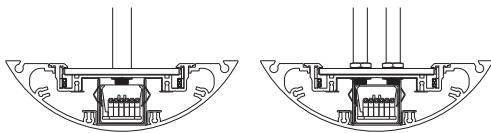
53WAAC36 (5" white canopy for all power mounting point, 3" white canopy for non power mounting point, and a 36" adjustable cable)



53WAC36 - aircraft cable 53WAAC36 - sliding cable

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

55W2SW18 (5" white canopy for all power mounting point, and non power mounting point, and two 18" white stems)



55WSW18 - stem 55W2SW18 - double stems

Caddy clips, if required specify under **OPTIONS**

[For all other options, see our website for a detailed Pendant Mounting Guide](#)

FINISH

Interior - 95%, reflective matte powder coated white paint

Exterior - matte white, matte black or aluminum powder coating.

Custom finishes are also available.

CONTROLS

LumenWerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.

STANDALONE CONTROLS

An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, location and functionality of the sensor within the luminaire are selected by LumenWerx.

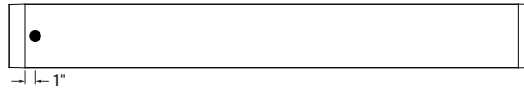
Three types are available:

OMS: An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used.

Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.

ODS: An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

OCs: Both an occupancy and a daylight sensor are installed in the luminaire.



Location of an Onboard control

CONNECTED CONTROLS

With Connected Controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron*, Enlighted, Osram ENCELIUM, Acuity nLight, Crestron and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

LumenWerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by LumenWerx, depending on the control system manufacturer.

LumenWerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a LumenWerx luminaire with Connected Controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact controls@lumenwerx.com to assure complete compatibility with intended control system and to fully specify the luminaire.

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Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for LumenWerx to create shop drawings and submittals.

* Lumenwerx offers a Lutron Vive-Enabled fixture option using either the DFCSJ-OEM-OCC (OCS Option) or DFCSJ-OEM-RF (wireless only, no sensor) Integral Fixture Modules and a DALI or EcoSystem LED driver based on customer dimming requirements.

Please contact our controls department at controls@lumenwerx.com for further assistance.

CONSTRUCTION

Housing - Extruded Aluminum (0.095" nominal) up to 90% Recycled Content

Interior brackets - Die formed cold rolled sheet steel 20 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

Light guide - Clear PMMA Laminated with microstructure film formed into optical TIR/extraction form

End caps - Die cast Aluminum (0.95" nominal)

Hanger - Chromed Griplock securely attached 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 silver powder coating. Custom finishes are also available

(Double) Stem - 0.375" diameter threaded steel tube matte white or silver powder coating. Custom finishes are also available

WEIGHT

Paz 4ft - 12.08lbs - 5.48kg

Paz 8ft - 23.59lbs - 10.7kg

Paz 12ft - 35.1lbs - 15.92kg

CERTIFICATIONS

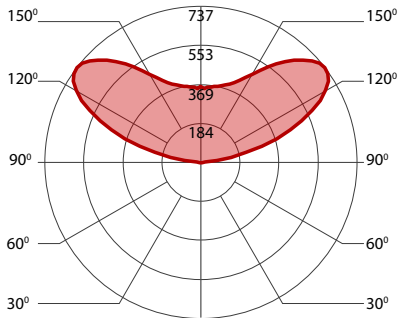
ETL - Rated for Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

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.

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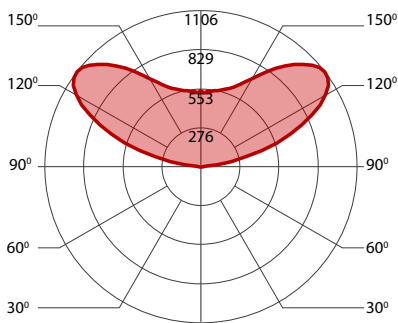
500 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	2700K	20	2000	100
low output	3000K	19.5	2000	103
low output	3500K	19	2000	105
low output	4000K	18.5	2000	109

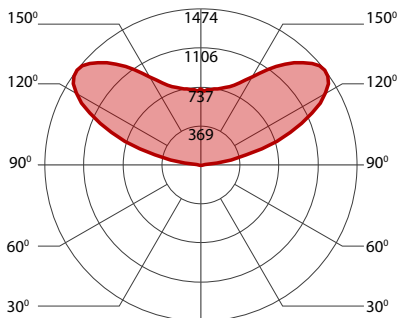
750 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
medium output	2700K	30.5	3000	99
medium output	3000K	29.5	3000	102
medium output	3500K	29	3000	104
medium output	4000K	28	3000	108

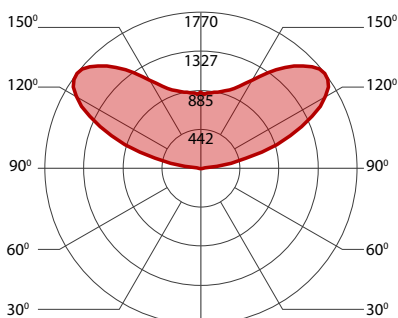
1000 LUMEN AT 80CRI - HIGH OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
high output	2700K	40	4000	100
high output	3000K	39	4000	103
high output	3500K	38	4000	105
high output	4000K	36.5	4000	109

1200 LUMEN AT 80CRI - ULTRA HIGH OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
ultra high output	2700K	48	4800	100
ultra high output	3000K	46.5	4800	103
ultra high output	3500K	45.5	4800	105
ultra high output	4000K	44	4800	109