UL LISTED c us · NSF · IP68 IP69K CERTIFIED · IK07 IMPACT CERTIFIED · NEMA 4X · NEMA 6P · BAA BABAA COMPLIANT
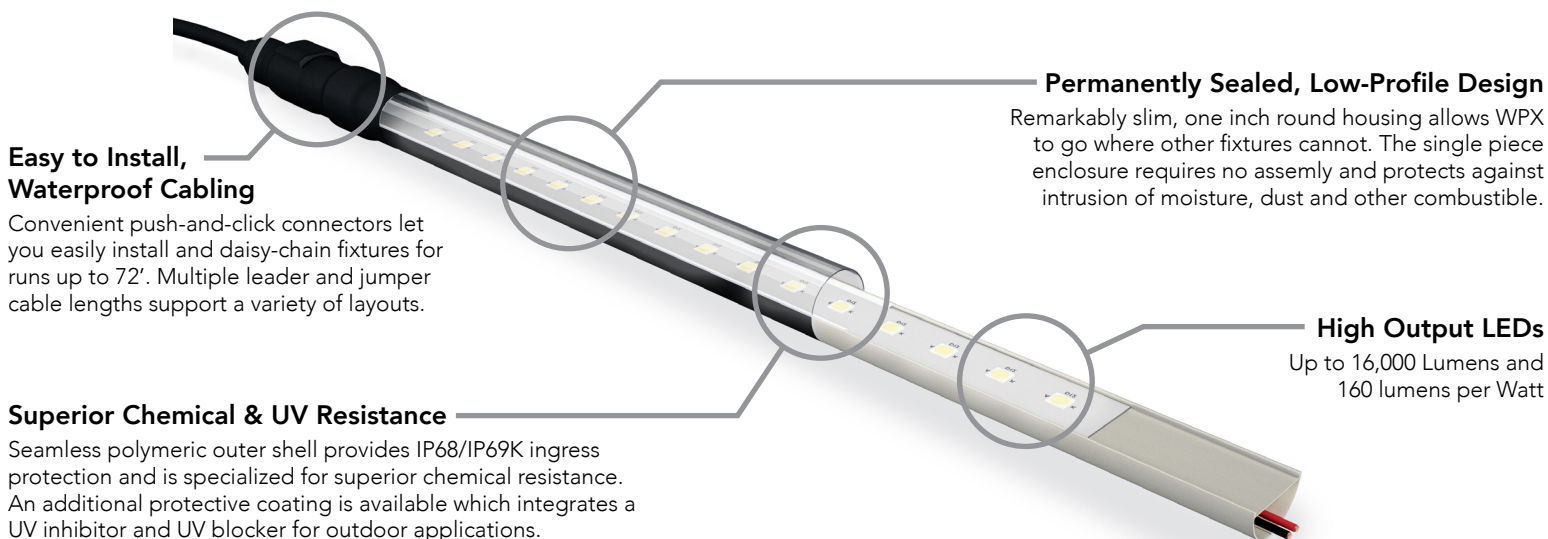
Proudly made in America

Low-Profile, Linkable LED Linear Luminaire for Harsh Environments

Easy to Install, Waterproof Cabling
Convenient push-and-click connectors let you easily install and daisy-chain fixtures for runs up to 72'. Multiple leader and jumper cable lengths support a variety of layouts.

Superior Chemical & UV Resistance
Seamless polymeric outer shell provides IP68/IP69K ingress protection and is specialized for superior chemical resistance. An additional protective coating is available which integrates a UV inhibitor and UV blocker for outdoor applications.

Permanently Sealed, Low-Profile Design
Remarkably slim, one inch round housing allows WPX to go where other fixtures cannot. The single piece enclosure requires no assembly and protects against intrusion of moisture, dust and other combustible.

High Output LEDs
Up to 16,000 Lumens and 160 lumens per Watt

PERFORMANCE SUMMARY

Delivered Light Output: Up to 16,000 Lumens

Maximum Run Length: Up to 72', not including jumper cables

Efficacy: Up to 160 LPW

CRI: Typical 85 CRI

CCT: 5000K & 4000K (Contact factory for custom CCT)

Dimming: Optional, 0-10V

Lifetime: 100,000 Hours at 25°C

Warranty: 5 Years

Mounting: Ceiling or wall

Lens: Clear (standard); Diffused (optional)

Protection Class: IP68/IP69K

Temperature Rating: Operable in temperatures -40°C to 60°C* *(Max 55°C for SHO fixtures)

Voltage: 120 or 277 VAC Input

Power Factor: 0.9 nominal

Surge Protection: None (DC Powered)

Total Harmonic Distortion: < 20%

FIXTURE SPECIFICATIONS

Construction & Materials

- Proudly engineered and manufactured in America:
    - Buy American Act (BAA) compliant
    - Build America, Buy America Act (BABAA) compliant
- Waterproof, push-and-click connectors
- Patented coextruded copolyester and aluminum housing
    - Seamless polymeric outer shell
    - Integrated aluminum heat spreader
- Double insulated (cabling and fixture)

Regulatory Qualifications

- cULus Listed
- UL Listed for Wet Locations
- Rated for use in natatoriums
- IP68/IP69K Certified
- IK07 Impact Certified
- NEMA 4X, NEMA 6P Rated
- NSF Rated

REV: 1124

ORDERING INFORMATION

Product	Length	Lumen Output	Color Temp.	Dimming	Lens Diffusion	UV Protection	Through Wired
WPX		—	—	—	—	—	—

Product: WPX

Length:
- **2** 2-Foot
- **4** 4-Foot
- **6** 6-Foot
- **8** 8-Foot

Lumen Output:
- **SO** Standard Output 1000 Lumens/Ft
- **HO** High Output 1500 Lumens/Ft
- **SHO*** Super High Output 2000 Lumens/Ft
  *Available in 4' & 8' 50K CCT Only

Color Temp.:
- **50K** 5000 Kelvin
- **40K** 4000 Kelvin

Dimming:
- **Blank** (standard) No Dimming
- **DIM** 0-10V Dimming

Lens Diffusion:
- **Blank** (standard) Chemical Resistant Clear Lens
- **GC** (glare control) Chemical Resistant Lens with Added Diffusion Sheet

UV Protection:
- **Blank** (standard) No Coating, Rated for Indoor Use
- **UVO** Outdoor-Rated with UV-Blocking Coating

Through Wired:
- **Blank** (standard) Connectors on Input & Output for ability to Daisy Chain fixtures
- **SE** (Single-Ended) Connector on Input Only, for Standalone Install, No Daisy Chain

FIXTURE DIMENSIONS

Model	Fixture Diameter	Fixture Length Thru Wire	Fixture Length Single End	Mounted Width	Mounted Height
WPX2	1.00″	25.82″	24.27″	1.25″	1.75″
WPX4	1.00″	47.82″	46.27″	1.25″	1.75″
WPX6	1.00″	69.82″	68.27″	1.25″	1.75″
WPX8	1.00″	91.82″	90.27″	1.25″	1.75″

LUMEN & POWER DATA

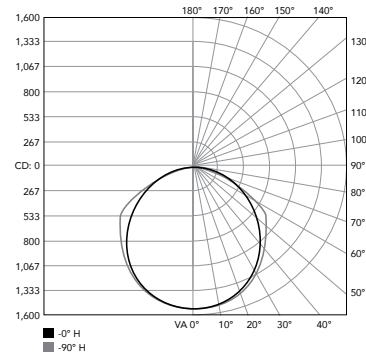| Fixture Length - Lumen Output	5000K Lumens	5000K Lumens Per Watt	4000K Lumens	4000K Lumens Per Watt
WPX2-SO	2,000 L	160 LPW	1,900 L	150 LPW
WPX4-SO	4,000 L	160 LPW	3,800 L	150 LPW
WPX6-SO	6,000 L	160 LPW	5,700 L	150 LPW
WPX8-SO	8,000 L	160 LPW	7,600 L	150 LPW
WPX2-HO	3,000 L	150 LPW	2,850 L	140 LPW
WPX4-HO	6,000 L	150 LPW	5,700 L	140 LPW
WPX6-HO	9000 L	150 LPW	8,550 L	140 LPW
WPX8-HO	12,000 L	150 LPW	11,400 L	140 LPW
WPX4-SHO	8,000 L	140 LPW	-	-
WPX8-SHO	16,000 L	140 LPW	-	-

PHOTOMETRY

WPX Series

Based on DTC Report Test #: 14404-T

Fixture photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. IESNA LM-79-08 specifies the entire luminaire as the source resulting in a fixture efficiency of 100%.

Polar Candela Distribution

- -0° H
- -90° H

Zonal Lumen Summary

Zone	Luminaire
0-30	26.2%
0-40	43.2%
0-60	77.4%
0-90	98.5%
0-180	100%

WPX FIXTURES PER POWER SUPPLY

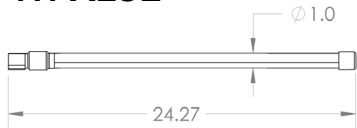| Fixture Length-Lumen Output	Fixture Watts	PSU-80	PSU-120	PSU-240	PSU-320	PSU-480	PSU-600
WPX2-SO	12 W	6	8	14	20	22	22
WPX4-SO	25 W	3	4	8	10	13	14
WPX6-SO	37 W	2	3	5	7	9	10
WPX8-SO	50 W	1	2	4	5	8	9
WPX2-HO	20 W	3	4	9	13	16	16
WPX4-HO	40 W	1	2	5	7	9	9
WPX6-HO	60 W	1	1	3	4	7	8
WPX8-HO	80 W	0	1	2	3	5	6
WPX4-SHO	58 W	1	2	3	4	7	8
WPX8-SHO	115 W	0	1	1	2	3	4

MOUNTING

G&G will provide the appropriate type (indoor vs. outdoor) and quantity of non-metallic quick latch clip depending on each fixture ordered (two clips per 2' and 4' fixtures, or three clips per 6' and 8' fixtures).
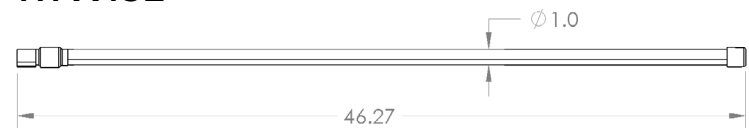
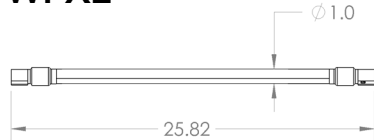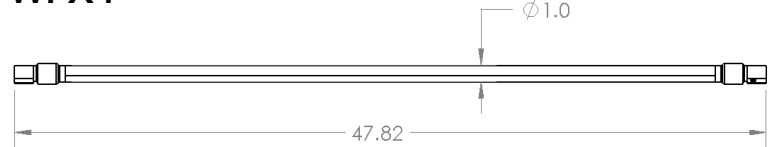| Part Number	Description
MNT-G1-NM-2015	(1) Non-Metallic Quick Latch Mounting Clip (Indoor)
MNT-G1-NM-2020	(1) Non-Metallic Quick Latch Mounting Clip (UVO Outdoor)
MNT-G1-SS	(1) Stainless Steel Bolt Latch Mounting Clip
MNT-G1-SS-KIT	Kit of (3) Stainless Steel Bolt Latch Mounting Clips
MNT-G1-MAG-NM-2015	(1) Non-Metallic Quick Latch Mounting Clip (Indoor) with Maximum Strength Disc Magnet
MNT-G1-MAG-NM-2020	(1) Non-Metallic Quick Latch Mounting Clip (UVO Outdoor) with Maximum Strength Disc Magnet
MNT-G1-MAG-SS	(1) Stainless Steel Bolt Latch Mounting Clip with Maximum Strength Disc Magnet

DIMENSIONAL DRAWINGS

WPX2SE

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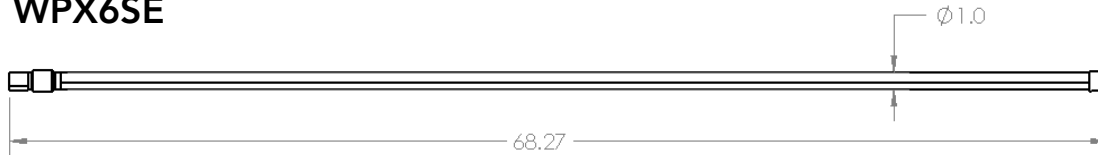24.27

WPX4SE

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46.27

WPX2

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25.82

WPX4

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47.82

WPX6SE

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68.27

WPX6

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69.82

WPX8SE

$\varnothing 1.0$

90.27

WPX8

1.0

91.82
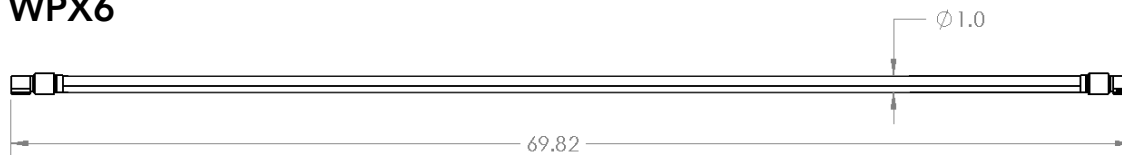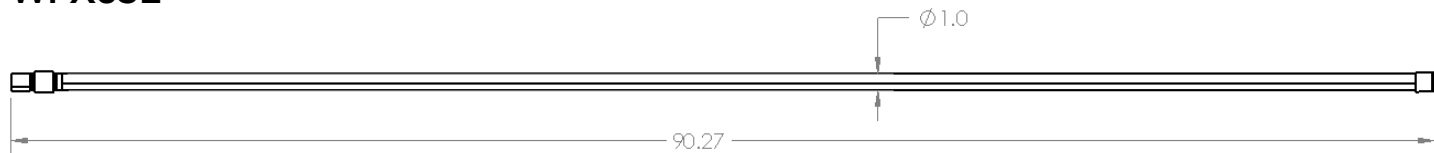
WPX Quick-Connect, IP68/IP69K Cables

Jumper Cables
White / Black

Leader Cable
White
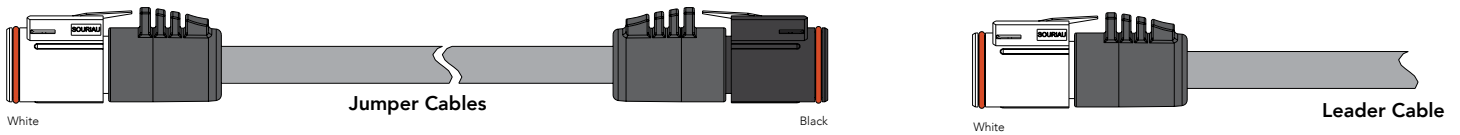
PERFORMANCE SUMMARY

Lifetime: 100,000 hours

Warranty: 3 Years

Protection Class: IP69/IP69K Connectors; Oil, UV and Water Resistant SJOOW Cord

Regulatory Qualifications: UL Listed for Indoor & Outdoor Use

Temperature Rating: Operable in temperatures -40°C to 50°C

ORDERING INFORMATION

Leader Cables

| Product | Length |
| WPX-LDR | — |

8 8ft   **25** 25ft

Jumper Cables

| Product | Length |
| WPX-JMP | — |

1 End-to-End   **2** 2ft   **4** 4ft   **8** 8ft   **12** 12ft   **16** 16ft   **20** 20ft

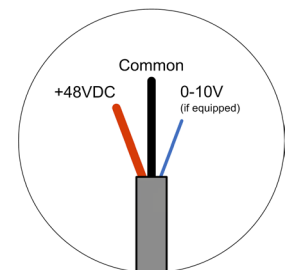## CABLING

Note: Cable lengths are ± 2 inches

Cable	Type	Wire	End-to-end Length*	Fixture-to-fixture Length*	Inside Cable Length*
WPX-JMP-1	Jumper	14 AWG SJOOW	11.5"	9.5"	7"
WPX-JMP-2	Jumper	14 AWG SJOOW	32"	30"	27.5"
WPX-JMP-4	Jumper	14 AWG SJOOW	56"	54"	51.5"
WPX-JMP-8	Jumper	14 AWG SJOOW	105"	103"	100.5"
WPX-JMP-12	Jumper	14 AWG SJOOW	154"	152"	149.5"
WPX-JMP-16	Jumper	14 AWG SJOOW	203"	200.5"	198"
WPX-JMP-20	Jumper	14 AWG SJOOW	249.5"	247.5"	245"
WPX-LDR-8	Leader	14 AWG SJOOW	8'	-	-
WPX-LDR-25	Leader	14 AWG SJOOW	25'	-	-

LEADER CABLE INSTALLATION

In some installations, the Leader Cable must be extended to reach from the fixtures to the power supply. The wire gauge required will depend on the load and the run length (see chart below). This will limit the voltage drop to ~3V.

14 AWG
20 AWG
G&G LED WET LOCATION LIGHTING – WATER/SUNLIGHT RESISTANT
1.0 in

Common
+48VDC   0-10V (if equipped)

Load / Run Length	1-50ft	50-100ft	100-150ft
1-3 Lights (5A)	16AWG	14AWG	12AWG
4-6 Lights (10A)	14AWG	12AWG	10AWG
7-9 Lights (15A)	12AWG	10AWG	8AWG

WPX Power Supply (80/120/240/320/480/600)

IP67
CERTIFIED

NEMA
4X

NEMA
6P

PERFORMANCE SUMMARY

Input Voltage Range: 110-277VAC

Frequency Range: 47 ~ 63Hz

Power Factor (at full load): 0.98/115VAC; 0.95/277VAC

Total Harmonic Distortion: < 20%

Output Voltage: Constant, 48 VDC

Lifetime: 100,000 Hours at 25°C

Warranty: 5 Years

Protection Class: IP67

Temperature Rating: Operable in temperatures -40°C to 60°C

Maximum Case Temperature: +90°C

Working Humidity: 20 to 95% RH Non-Condensing

Storage Temperature Humidity: -40°C to +80°C,10 to 95% RH

Temperature Coefficient: ± 0.03%/°C (0°C to 50°C)

Vibration: 10 to 500Hz, 5G 12 Minutes/1 Cycle, period for 72 minutes each along X, Y & Z Axes

POWER SUPPLY SPECIFICATIONS

Construction & Materials

- High-efficiency (95%), fan-less design
- Built-in wet-location junction boxes
- Extruded aluminum metal housing

Regulatory Qualifications

- IP67 (For indoor or outdoor installations)
- NEMA 4X, NEMA 6P Rated

Protections

- **Over Current:** Constant current limiting, recovers automatically after fault condition is removed
- **Short Circuit:** Hiccup mode, recovers automatically after fault condition is removed
- **Over Voltage:** Shut down and latch off O/P voltage, re-power on to recover
- **Over Temperature:** Shut down O/P voltage, recovers automatically after temperature goes down

ORDERING INFORMATION

Product		Rated Wattage

WPX-PSU —

80	120	240	320	480	600
80 Watt	120 Watt	240 Watt	320 Watt	480 Watt	600 Watt

POWER SUPPLY DIMENSIONS (mm)

Model	Length	Width	Depth (Height)
PSU-80	344.0	61.5	38.8
PSU-120	368.0	68.0	38.8
PSU-240	392.2	68.0	38.8
PSU-320	397.2	90.0	43.8
PSU-480	397.2	125.0	43.8
PSU-600	433.2	144.0	48.5

INPUT / OUTPUT SPECIFICATIONS

		PSU-80	PSU-120	PSU-240	PSU-320	PSU-480	PSU-600
Input AC Current	115 VAC	0.85A	1.4A	4A	3.5A	5A	7A
	230 VAC	0.425A	0.6A	2A	1.65A	2.45A	3.3A
	277 VAC	0.4A	0.55A	1.2A	1.45A	2A	2.9A
Efficiency		91%	93%	93%	95%	95%	96%
Output Current		1.7A	2.5A	5A	6.7A	10A	12.5A
Output Power		80W	120W	240W	320W	480W	600W

WPX FIXTURES PER POWER SUPPLY

Fixture Length-Lumen Output	Fixture Watts	Fixtures Supported per Power Supply					
		PSU-80	PSU-120	PSU-240	PSU-320	PSU-480	PSU-600
WPX2-SO	12 W	6	8	14	20	22	22
WPX4-SO	25 W	3	4	8	10	13	15
WPX6-SO	37 W	2	3	6	7	9	10
WPX8-SO	50 W	1	2	4	5	8	10
WPX2-HO	20 W	3	4	9	13	16	16
WPX4-HO	40 W	1	2	5	7	9	9
WPX6-HO	60 W	1	1	3	4	7	8
WPX8-HO	80 W	0	1	2	3	5	6
WPX4-SHO	58 W	1	2	3	5	7	8
WPX8-SHO	115 W	0	1	1	2	3	4

WIRE DIAGRAMS

WPX-PSU-80/120/240/320/480

Input
110-277 VAC

Output
48 VDC

Brown (AC Line/Black)

Blue (AC Neutral/White)

Green (Ground)

Power Supply

Red (+48VDC)

Black (Common)

WPX-PSU-600

Input
110-277 VAC

Output
48 VDC

Brown (AC Line/Black)

Blue (AC Neutral/White)

Green (Ground)

Power Supply

Brown (RC+)
Black (RC-)
Yellow (+SV)
Not Used (Cap)

Red (+48VDC)
Black (Common)

Red (+48VDC)
Black (Common)