

POP RECESSED

REGRESSED SQUARE AND RECTANGULAR
STATIC WHITE

LUMENWERX



Project: _____

Type: _____



DESCRIPTION

Pop Recessed Regressed Square is a flexible, elegant, low-glare luminaire available in 10 different sizes. Its innovative, precision-crafted Uniform Lambertian Optic (ULO) allows all models to have a Uniform Glare Rating (UGR) of <19, beneficial for creating well-balanced, low glare architectural spaces. The fixture can be integrated in various grid ceiling and gypsum board setups. Pop Regressed Square comes in Static White. Consult web pages for Chromawerx Sola, Duo, and Quadro solutions for Pop Regressed Square.

Performance

Based on 3500K, 80 CRI, medium output

SIZE	TOTAL LUMENS	EFFICACY lm/W	SIZE	TOTAL LUMENS	EFFICACY lm/W
6" X 6"	220 lm	53 lm/W	1' X 4'	3500 lm	91 lm/W
6" X 2'	880 lm	81 lm/W	2' X 2'	3500 lm	91 lm/W
6" X 4'	1750 lm	87 lm/W	2' X 4'	7000 lm	105 lm/W
1' X 1'	880 lm	81 lm/W	4' X 4'	14000 lm	105 lm/W
1' X 2'	1750 lm	91 lm/W	20" X 60"	7300 lm	105 lm/W

Order Guide

LUMINAIRE ID	SIZE	OPTIC	LIGHT SOURCE ¹	CRI	LUMEN PACKAGE			COLOR TEMP	
PORRGSQ		ULO	SW						
PORRGSQ - Pop Recessed Regressed Square	0505 - 6" X 6" 052 - 6" X 2' 054 - 6" X 4' 11 - 1' X 1' 12 - 1' X 2' 14 - 1' X 4' 22 - 2' X 2' 24 - 2' X 4' 44 - 4' X 4' 2060 - 20" X 60"	ULO - Uniform Lambertian Optic	SW - Static white ¹ Chromawerx Sola, Duo, and Quadro also available. Consult other spec sheets.	80 - 80 CRI 90 - 90 CRI	6" X 6" 6" X 2' 6" X 4' 1' X 1' 1' X 2' 1' X 4' 2' X 2' 2' X 4' 4' X 4' 20" X 60"	Low L160 lm L630 lm L1250 lm L630 lm L1250 lm L2500 lm L2500 lm L5000 lm L10000 lm L5210 lm	Medium M220 lm M880 lm M1750 lm M880 lm M1750 lm M3500 lm M3500 lm M7000 lm M14000 lm M7300 lm	High H290 lm H1130 lm H2250 lm H1130 lm H2250 lm H4500 lm H4500 lm H9000 lm H18000 lm H9380 lm	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K

VOLTAGE	DRIVER ⁴	ELECTRICAL	MOUNTING			
120 -120V 277 - 277V UNV - 120V-277V 347 ^{2,3} - 347V	D1 - 1% 0-10V DA ⁵ - DALI LTEA2W ⁶ - Lutron 1% - 2 wire FP 120V LDE1 ⁵ - Lutron Hi-lume 1% Eco ⁴ PoE (Power-over-Ethernet) compatible. Consult factory for details. ⁵ On-site commissioning is required. ⁶ Not available with 6" X 6" and 1' X 1'.	1 - 1 circuit +EB ^{7,8} - Emergency battery pack +GTD ^{8,9} - Generator transfer device ⁷ For 6" X 6", 6" X 2', and 1' X 1', available with a remote driver box only. ⁸ Not available with 347V. ⁹ For 6" X 6", available with a remote driver box only.	On-grid ¹⁰	Off-grid ¹¹ - centered in tile	Drywall	Side-by-side ¹²
			GRD - Grid ceiling	GRDC - Grid ceiling, centered in tile	DF - Drywall trim kit DMF - Drywall mud flange	SBS - Side-by-side mounting
² For 6" X 6", available with a remote driver box only. ³ Available with D1 only.						

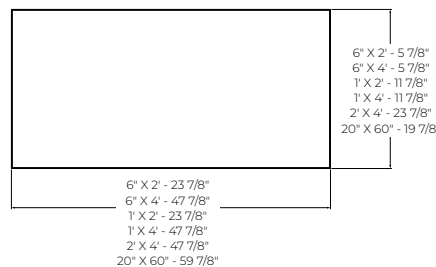
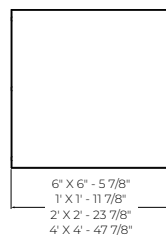
¹⁰ Not available with 6" X 6", 6" X 2', 6" X 4', and 1' X 1'.

¹¹ Not available with 2' X 2', 2' X 4', 4' X 4', and 20" X 60".

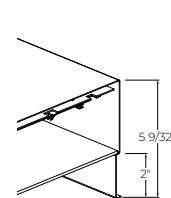
¹² A drawing is required to show your side-by-side mounting configuration.

FINISH	OPTIONS
W - Matte white CF# - Custom finish, specify RAL#	FU120 - Fuse 120V FU277 - Fuse 277V FWC - Flexible whip cable (6' std) CP - Chicago Plenum NA - None

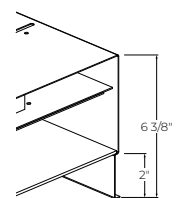
Top View



3D Cross section



1' X 2'
1' X 4'
2' X 2'
2' X 4'
4' X 4'
20" X 60"



6" X 6"
6" X 2'
6" X 4'
1' X 1'

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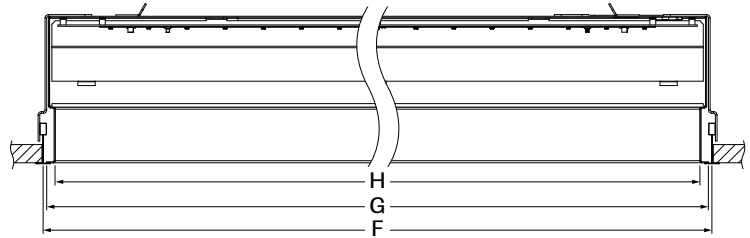
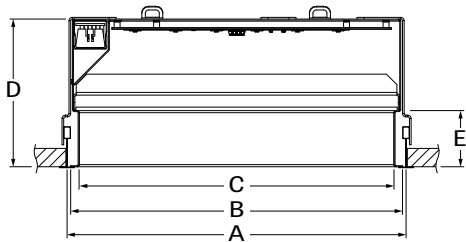
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Dimensions (shown with 1' X 4')

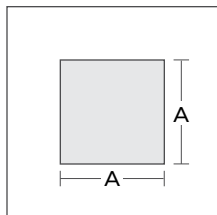
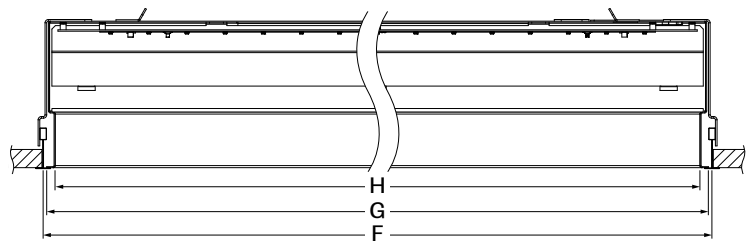
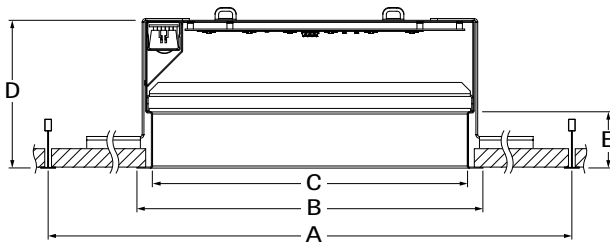
GRD - Grid ceiling, on-grid mounting

SIZE	A	B	C	D	E	F	G	H
1' X 2'	12"	11 7/8"	11 1/4"	5 9/32"	2"	24"	23 7/8"	23 1/4"
1' X 4'	12"	11 7/8"	11 1/4"	5 9/32"	2"	48"	47 7/8"	47 1/4"
2' X 2'	24"	23 7/8"	23 1/4"	5 9/32"	2"	24"	23 7/8"	23 1/4"
2' X 4'	24"	23 7/8"	23 1/4"	5 9/32"	2"	48"	47 7/8"	47 1/4"
4' X 4'	48"	47 7/8"	47 1/4"	5 9/32"	2"	48"	47 7/8"	47 1/4"
20" X 60"	20"	19 7/8"	19 1/4"	5 9/32"	2"	60"	59 7/8"	59 1/4"



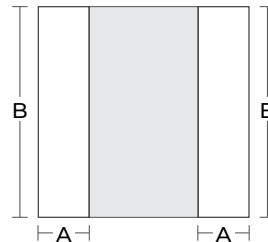
GRDC - Grid ceiling, off-grid mounting - centered in tile

SIZE	A	B	C	D	E	F	G	H
6" X 6"	N/A	6 3/8"	5 1/4"	6 3/8"	2"	N/A	6 3/8"	5 1/4"
6" X 2'	24"	6 3/8"	5 1/4"	6 3/8"	2"	24"	23 7/8"	23 1/4"
6" X 4'	24"	6 3/8"	5 1/4"	6 3/8"	2"	48"	47 7/8"	47 1/4"
1' X 1'	N/A	12 3/8"	11 1/4"	6 3/8"	2"	N/A	12 3/8"	11 1/4"
1' X 2'	24"	12 3/8"	11 1/4"	5 9/32"	2"	24"	23 7/8"	23 1/4"
1' X 4'	24"	12 3/8"	11 1/4"	5 9/32"	2"	48"	47 7/8"	47 1/4"



Cut-out dimensions

SIZE	A
6"X6"	5-3/4"
1'X1'	11-3/4"



Tile cut dimensions

SIZE	A	B
6"X2'	9"	23-3/4"
6"X4'	9"	47-3/4"
1'X2'	6"	23-3/4"
1'X4'	6"	47-3/4"

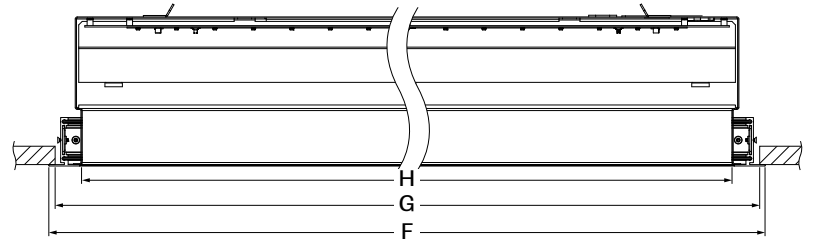
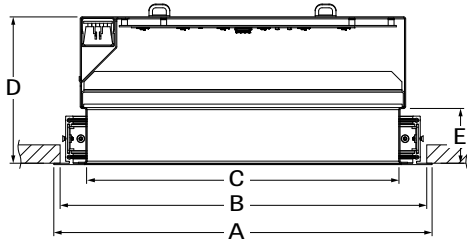
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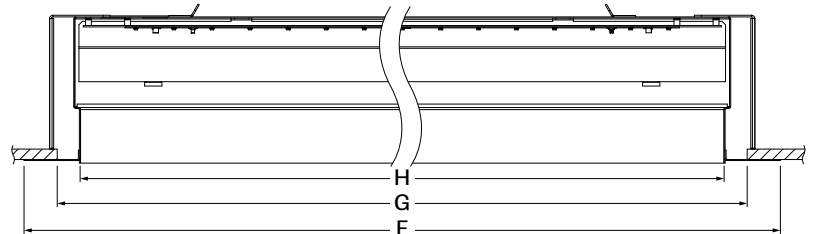
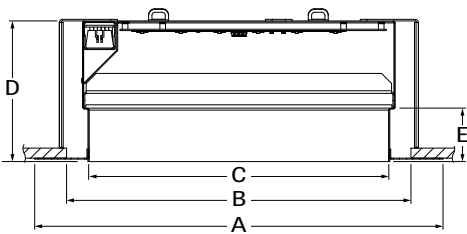
DF - Drywall trim kit

SIZE	A	B	C	D	E	F	G	H
6" X 6"	7 21/32"	7 1/4"	5 1/4"	6 3/8"	2"	7 21/32"	7 1/4"	5 1/4"
6" X 2'	7 21/32"	7 1/4"	5 1/4"	6 3/8"	2"	25 21/32"	25 1/4"	23 1/4"
6" X 4'	7 21/32"	7 1/4"	5 1/4"	6 3/8"	2"	49 21/32"	49 1/4"	47 1/4"
1' X 1'	13 21/32"	13 1/4"	11 1/4"	6 3/8"	2"	13 21/32"	13 1/4"	11 1/4"
1' X 2'	13 21/32"	13 1/4"	11 1/4"	5 9/32"	2"	25 21/32"	25 1/4"	23 1/4"
1' X 4'	13 21/32"	13 1/4"	11 1/4"	5 9/32"	2"	49 21/32"	49 1/4"	47 1/4"
2' X 2'	25 21/32"	25 1/4"	23 1/4"	5 9/32"	2"	25 21/32"	25 1/4"	23 1/4"
2' X 4'	25 21/32"	25 1/4"	23 1/4"	5 9/32"	2"	49 21/32"	49 1/4"	47 1/4"
4' X 4'	49 21/32"	49 1/4"	47 1/4"	5 9/32"	2"	49 21/32"	49 1/4"	47 1/4"
20" X 60"	21 21/32"	21 1/4"	19 1/4"	5 9/32"	2"	61 21/32"	61 1/4"	59 1/4"



DMF - Drywall mud flange

SIZE	A	B	C	D	E	F	G	H
6" X 6"	9 11/32"	7 1/8"	5 1/4"	6 3/8"	2"	9 11/32"	7 1/8"	5 1/4"
6" X 2'	9 11/32"	6 3/4"	5 1/4"	6 3/8"	2"	27 11/32"	24 3/4"	23 1/4"
6" X 4'	9 11/32"	6 3/4"	5 1/4"	6 3/8"	2"	51 11/32"	48 3/4"	47 1/4"
1' X 1'	15 11/32"	12 3/4"	11 1/4"	6 3/8"	2"	15 11/32"	12 3/4"	11 1/4"
1' X 2'	15 11/32"	12 3/4"	11 1/4"	5 9/32"	2"	27 11/32"	24 3/4"	23 1/4"
1' X 4'	15 11/32"	12 3/4"	11 1/4"	5 9/32"	2"	51 11/32"	48 3/4"	47 1/4"
2' X 2'	27 11/32"	24 3/4"	23 1/4"	5 9/32"	2"	27 11/32"	24 3/4"	23 1/4"
2' X 4'	27 11/32"	24 3/4"	23 1/4"	5 9/32"	2"	51 11/32"	48 3/4"	47 1/4"
4' X 4'	51 11/32"	48 3/4"	47 1/4"	5 9/32"	2"	51 11/32"	48 3/4"	47 1/4"
20" X 60"	23 11/32"	20 3/4"	19 1/4"	5 9/32"	2"	63 11/32"	60 3/4"	59 1/4"



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Technical Specifications

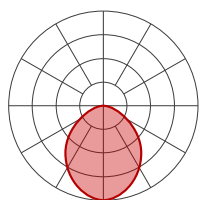
OPTIC

Uniform Lambertian Optic (ULO) - This optic provides a smooth homogenous glow with even illumination and consistent distribution. With Pop Regressed, ULO offers excellent visual comfort in all aperture sizes, from smallest to largest.

LIGHT SOURCE

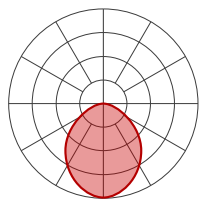
Custom array of mid-flux LEDs are mounted directly to the housing for optimal thermal performance. Available in 2700K, 3000K, 3500K, and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operated at reduced drive current to optimize efficacy and lumen maintenance.

All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L90 lumen maintenance greater than 60,000 hours reported, 150,000 hours projected. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.



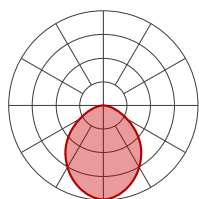
Performance for 6" X 6", at 80 CRI

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
Low output	3500K	2.9	160	55
Medium output	3500K	4.2	220	53
High output	3500K	5.7	290	51



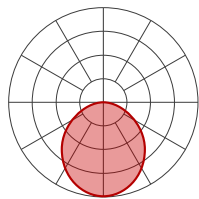
Performance for 6" X 2", at 80 CRI

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
Low output	3500K	7.5	630	84
Medium output	3500K	10.9	880	81
High output	3500K	14.7	1130	77



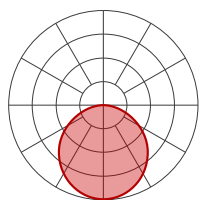
Performance for 6" X 4", at 80 CRI

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
Low output	3500K	13.7	1250	91
Medium output	3500K	20.1	1750	87
High output	3500K	27.1	2250	83



Performance for 1' X 1', at 80 CRI

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
Low output	3500K	7.4	630	85
Medium output	3500K	10.8	880	81
High output	3500K	14.5	1130	78



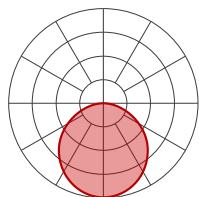
Performance for 1' X 2', at 80 CRI

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
Low output	3500K	13.1	1250	95
Medium output	3500K	19.2	1750	91
High output	3500K	25.8	2250	87

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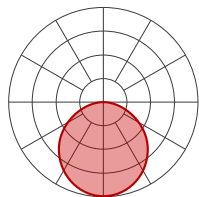
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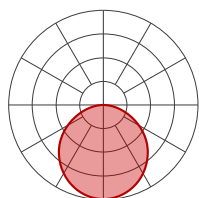
Performance for 1' X 4', at 80 CRI

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
Low output	3500K	26.2	2500	95
Medium output	3500K	38.4	3500	91
High output	3500K	51.7	4500	87



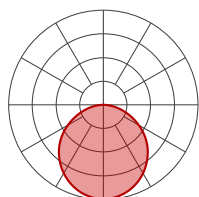
Performance for 2' X 2', at 80 CRI

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
Low output	3500K	26.2	2500	95
Medium output	3500K	38.4	3500	91
High output	3500K	51.7	4500	87



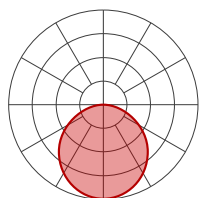
Performance for 2' X 4', at 80 CRI

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
Low output	3500K	45.7	5000	110
Medium output	3500K	66.8	7000	105
High output	3500K	89.9	9000	100



Performance for 4' X 4', at 80 CRI

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
Low output	3500K	91.3	10000	110
Medium output	3500K	133.6	14000	105
High output	3500K	179.9	18000	100



Performance for 20" X 60", at 80 CRI

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
Low output	3500K	47.6	5210	109
Medium output	3500K	69.7	7300	105
High output	3500K	93.8	9380	100

Multiplier - CCT/CRI

CCT (K)	Watts		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
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

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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 55 or L04 meets WELL glare category (b-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 Mind -This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, and smooth optics. 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.

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) and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire, or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, Duo (tunable white), Quadro (RGBW) emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

EMERGENCY

Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 10W (25°C) emergency lighting output and recharge time of 24 hours.

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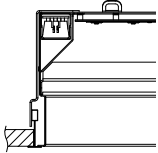
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MOUNTING OPTIONS

On-grid

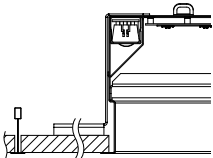
Recessed mount in a grid ceiling.



GRD - Grid ceiling

Off-grid - centered in tile

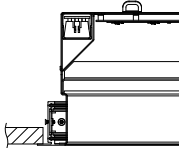
Recessed mount in the center of a tile in a grid ceiling.



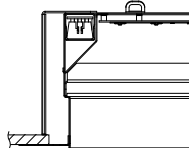
GRDC - Grid ceiling, centered in tile

Drywall

Recessed mount in drywall ceilings with trim kit, or mud flange options.



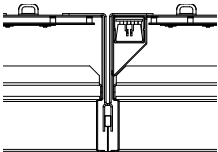
DF - Drywall trim kit



DMF - Drywall mud flange

Side-by-side

Recessed mount in a side-by-side group formation. To determine brackets, and mounting details, a drawing illustrating your side-by-side configuration, with ceiling details, is required.



SBS - Side-by-side mounting

FINISH

Interior - 95% reflective, matte white powder coating.

Exterior - Matte white powder coating. Custom finishes are also available.

CONSTRUCTION

Housing - 20 gauge cold rolled steel.

Diffuser - 0.125" thick white acrylic.

WEIGHT

6" X 6" - 3.6 lbs - 1.7 kg

6" X 2' - 9.2 lbs - 4.2 kg

6" X 4' - 16 lbs - 7.3 kg

1' X 1' - 8.1 lbs - 3.7 kg

1' X 2' - 12.6 lbs - 5.7 kg

1' X 4' - 22.7 lbs - 10.3 kg

2' X 2' - 22.9 lbs - 10.4 kg

2' X 4' - 39.9 lbs - 18.1 kg

4' X 4' - 72.2 lbs - 32.7 kg

20" X 60" - 41.5 lbs - 18.8 kg

CERTIFICATIONS

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

Chicago Plenum - City of Chicago Approved (CCEA)

IC rated - Suitable for direct contact with insulation.

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.