

The Wide Base Wrap (WBW) Fixture family has been developed to dramatically improve energy efficiency and quality of light using Solid State Lighting (SSL) technologies. The Wide Base Wrap Series provides an attractive, low profile, energy efficient architectural look which has been specifically designed to replace existing fluorescent lighting or for use in new construction. Comfortable, low glare, uniform lighting is attributed to this style of fixture. Typical applications for this type of product are interior spaces where finished ceilings and walls exist. Applications include:

- Commercial/Corporate Office Spaces
- Schools, Colleges and Universities
- Retail Spaces, Public Spaces and Airports
- Hospitals, Government Facilities and Military Bases



project: _____

fixture type: _____

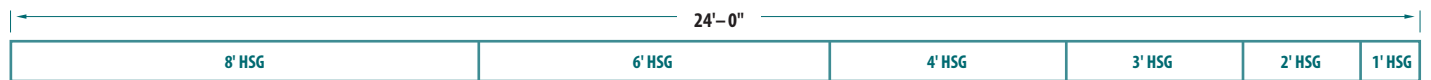
catalog #: _____

quantity: _____

ORDERING GUIDE

PREFIX/SERIES	SIZE	OPTICS (DISTRIBUTION)	LUMEN OUTPUT*	DRIVER VOLTAGE	DRIVER TYPE	COLOR TEMP.	LENS (DIFFUSER)	HOUSING COLOR / FINISH	FIXTURE OPTIONS
WBW - Wide Base Wrap Fixture	1 - 1' 2 - 2' 3 - 3' 4 - 4' 6 - 6' 8 - 8'	N - Normal C - Custom (Specify)	L010 L130 L020 L140 L030 L150 L040 L160 L050 L170 L060 L180 L070 L190 L080 L200 L090 L210 L100 L220 L110 L230 L120 L240 LC - Custom (Specify)	UNV - Universal Voltage (120v - 277v) (60 Hz) (Standard) 120 - 120v, 60Hz 277 - 277v, 60Hz 347 - 347v *Special Order Only	DM - 0-10v Low Voltage Dimming (10% - 100%) (Standard) SD - Step Dimming (50% / 100%) LV - Line Voltage Dimming *Specify Voltage (120v or 277v)	C27 - 2700 K* C30 - 3000 K* C35 - 3500 K C40 - 4000 K C50 - 5000 K* *Special Order Only	AP - Clear, Linear Prismatic Acrylic Lens (Standard) AF - Frosted Linear Prism Acrylic Lens (Optional) CS - Custom (Specify)	PP - Pre-painted (White) (Standard With Pop Rivet Construction) GW - Gloss White (Smooth) TW - Textured White TB - Textured Black CS - Custom Finish (Specify)	OS - Occupancy Sensor DL - Daylight Harvesting Sensor OD - Occupancy/Daylight Sensor OS - OSRAM Wireless Sensor EN - "Encelium" Wireless Sensor DS - Digital Sensor DT - "DainTree" Wireless Sensor EM - Emergency Battery Pack *

*L(x) = Delivered Lumens
Example: L090 = 9,000 Lumens



***EXAMPLE: CONTINUOUS ROW @ 1000 LUMENS PER FOOT**

- (QTY=1) WBW8-N-L080-UNV-DM-C40-AF-PP (QTY=1) WBW4-N-L040-UNV-DM-C40-AF-PP (QTY=1) WBW2-N-L020-UNV-DM-C40-AF-PP
 (QTY=1) WBW6-N-L060-UNV-DM-C40-AF-PP (QTY=1) WBW3-N-L030-UNV-DM-C40-AF-PP (QTY=1) WBW1-N-L010-UNV-DM-C40-AF-PP


RENOVA Products Listed on the DLC Qualified Product List (QPL)

See page 4 for complete list.

* Standard "EM" option to be NiCd Battery @ 1000 Lumens @ 90 min. duration (standard). Consult factory for all available options.

** WBW Series Fixtures have a lumen output range from 300 Lumens through 24,000 Lumens depending on length of fixture and driver/board configuration. Consult factory for correct catalog number on all custom configured lighting products.

PRIOR TO REPLACING AN EXISTING FLUORESCENT FIXTURE, PLEASE NOTE THE FOLLOWING:

 Fluorescent lamps contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and / or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org.

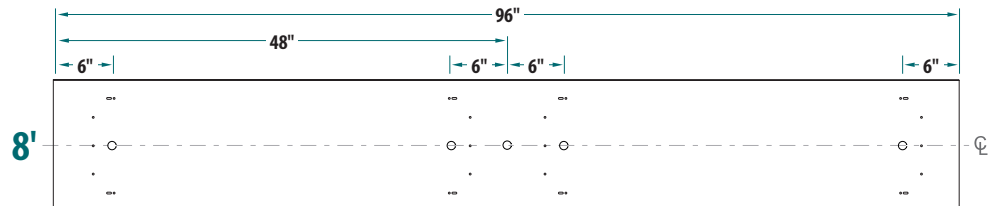
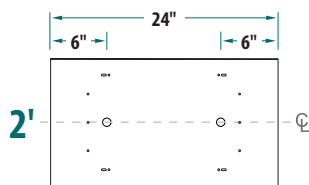
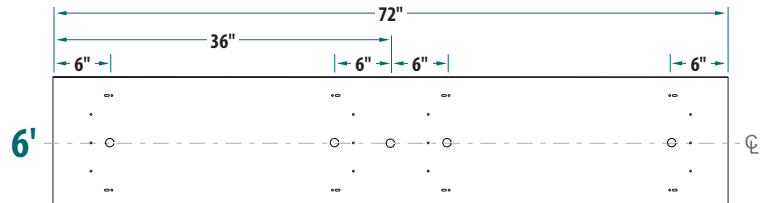
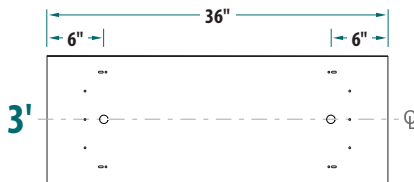
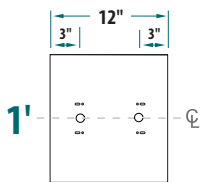
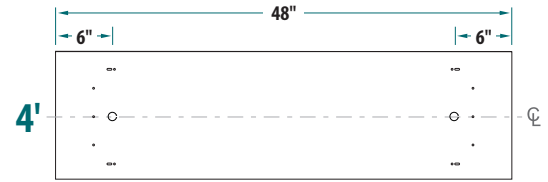
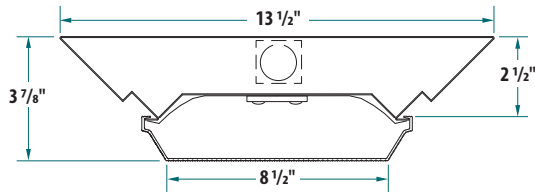


DLC Application Category #7
"Linear Ambient Lighting of Interior Commercial Spaces"

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified

WBW Cross Section & Fixture Dimensions

Prefix: WBW



Note: Unless otherwise specified, all EKO's are 7/8" diameter.

CONSTRUCTION

- Precision die-formed from code-gauge cold rolled steel.
- Mechanically fastened (standard - when ordered as "PP" under "Housing Color / Finish" in the ordering guide).
- Resistance (spot) welded construction is optional.
- Consult factory for all options or any modifications needed.

FINISH

- **Housing**
 - High Reflectance Gloss White polyester powder coat baked enamel. "PP" indicates White pre-paint (pop-riveted) construction. "GW" indicates Gloss White post paint (spot-welded) construction.
- **Reflector/Optics**
 - High Reflectance White polyester powder coat baked enamel for extreme durability and superior optical efficiency.

LED's/OPTICS

- High performance LED boards manufactured specifically for interior lighting. LED boards feature the latest mid-power LEDs for maximum performance, efficiency and longevity.
- Standard color temperatures offered are 3500K and 4000K. Consult factory for all other color temperature options. 80 CRI (Minimum). RoHS Compliant.

- Always consult factory for the latest developments and improvements concerning LEDs and Optics.

DRIVERS

- Electronic, high efficiency, programmable, linear, constant current type. Universal voltage 120v-277v (Standard)
- Features include constant lumen maintenance, end of life indication and LED thermal protection.
- 0-10v dimmable. 10%- 100% dimming (Standard) / 1%- 100% dimming (Optional).
- Factory programmed drive current, Dim to Off function, Soft Start function.
- Step-Dim and Line Voltage Dimming Drivers are optional.
- Auxiliary output (Optional) used to power various sensors / wireless modules.
- Suitable for dry and damp locations.
- UL/CUL Class 2 Recognized, RoHS Compliant.

LENS (DIFFUSER)

- Extruded, clear, 100% virgin acrylic, linear ribbed with pattern 12 prismatic embossment (Standard).
- 30% DR additive used to increase resistance to breakage (Optional).
- Optional frosted lens / diffuser manufactured from extruded, 100% virgin acrylic & high light transmission / LED diffusing polymer featuring linear ribbed pattern, which provides a clean, aesthetic architectural look.

MOUNTING

- Fixtures are designed to be surface mounted, or suspended using pendant, aircraft cable, or jack chain. Consult factory for all other special mounting conditions.

ELECTRICAL

- Surface Mount Fixtures are UL/CUL listed and labeled for dry/damp locations.
- LM80 performance for 50,000+ hours
- Bi-Level dimming option allows 50% power for compliance with common energy codes.
- Driver disconnect provided where required to comply with US & Canadian codes.

QUALITY CONTROL

- All fixtures are designed, fabricated, assembled, tested, packaged and shipped from RENOVA's manufacturing facility in Mansfield, MA (USA).

WARRANTY

- 5-year limited warranty. Please refer to RENOVA's website at www.renova.com/sales/warranties for the latest warranty terms and conditions.

NOTES:

LED Dimming Drivers have adjustable output capability. A wide range of input watts/lumen output can be adjusted up or down on all models to suit a particular application. Always consult factory for the latest information.

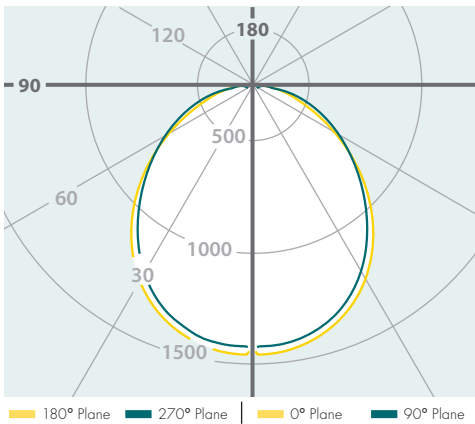
Photometric data, IES files and all other information is available on request.

RENOVA products are constantly being improved; therefore the information shown is subject to change without notice. Always consult your lighting representative or RENOVA Lighting Systems, Inc. for the latest information.



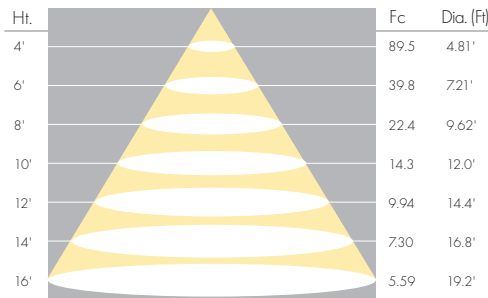
Catalog #: WBW4-N-L037-UNV-DM-C40-AF-XX-XX
Photometric Test Report #: 11201679-1231475
Delivered Lumens: 3738
Efficacy (Lumens/Watt): 137.8
Power: 27.13w @ 120 VAC
Power Factor: 0.996
Current THD: 5.72%
CRI: 83.7
CCT: 3988 K
LED Life: 50,000+ hrs

Candela Distribution Polar Plot



Spacing/Mounting Height: 1.22
SC (Along): 1.22 SC (Across): 1.22

Cone of Light Tabulation



Utilization of Lumens - Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

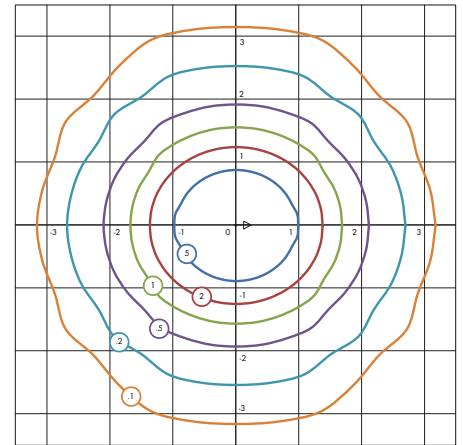
Ceiling Cavity Reflectance	80				70				50		
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10
Room Cavity Ratio (RCR)	** Values are expressed as lumens delivered to the task surface **										
0	4428	4428	4428	4428	4315	4315	4315	4315	4103	4103	4103
1	4042	3863	3703	3558	3931	3769	3624	3491	3594	3474	3365
2	3687	3382	3130	2918	3580	3304	3073	2876	3157	2963	2796
3	3371	2984	2684	2445	3271	2918	2641	2417	2794	2558	2363
4	3095	2655	2333	2087	3003	2600	2300	2068	2495	2235	2030
5	2853	2382	2052	1809	2769	2335	2026	1795	2246	1975	1767
6	2640	2151	1823	1588	2563	2111	1802	1577	2035	1761	1556
7	2452	1956	1635	1409	2383	1922	1617	1401	1857	1584	1385
8	2286	1789	1477	1262	2223	1760	1463	1256	1703	1435	1243
9	2138	1646	1344	1140	2081	1620	1332	1135	1571	1308	1124
10	2007	1521	1230	1037	1955	1499	1220	1032	1456	1200	1024

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

Angle	Along	45.0	Across
0	5604	5604	5604
45	4542	3953	3797
55	3869	3309	3257
65	3143	2711	2822
75	2349	2165	2446
85	1335	1608	2052

Horizontal Footcandles

Mounting Height = 8'-0" A.F.F.
Maximum Calculated Value = 18.43 Fc



Grid Lines in Units of Mounting Height

5fc | 2fc | 1fc | .5fc | .2fc | .1fc

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1093	29.2%
0-40	1752	46.9%
0-60	2918	78.1%
0-90	3648	97.6%
40-90	1896	50.8%
60-90	730	19.5%
90-180	90	2.4%
0-180	3738	100.0%

Luminaire Efficacy (Lumens Per Watt): 139.1



WBW Fixtures Listed on the DLC Qualified Products List (QPL)

RENOVA Catalog Number	Delivered Lumens	Input Watts	Lumens per Watt	DLC - QPL Classification
WBW2-N-L015-UNV-DM-C35-AP-xx-xx	1469	11.62	126.41	Premium
WBW2-N-L015-UNV-DM-C35-AF-xx-xx	1464	11.47	127.63	Premium
WBW2-N-L015-UNV-DM-C40-AP-xx-xx	1488	11.77	126.42	Premium
WBW2-N-L015-UNV-DM-C40-AF-xx-xx	1483	11.77	125.99	Premium

RENOVA Catalog Number	Delivered Lumens	Input Watts	Lumens per Watt	DLC - QPL Classification
WBW4-N-L015-UNV-DM-C35-AP-xx-xx	1505	12.02	125.24	Premium
WBW4-N-L015-UNV-DM-C35-AF-xx-xx	1523	12.02	126.81	Premium
WBW4-N-L015-UNV-DM-C40-AP-xx-xx	1544	12.02	128.53	Premium
WBW4-N-L015-UNV-DM-C40-AF-xx-xx	1562	12.02	130.03	Premium

RENOVA Catalog Number	Delivered Lumens	Input Watts	Lumens per Watt	DLC - QPL Classification
WBW8-N-L030-UNV-DM-C35-AP-xx-xx	3235	21.98	147.19	Premium
WBW8-N-L030-UNV-DM-C35-AF-xx-xx	3273	21.98	148.91	Premium
WBW8-N-L030-UNV-DM-C40-AP-xx-xx	3320	21.98	151.05	Premium
WBW8-N-L030-UNV-DM-C40-AF-xx-xx	3358	21.98	152.82	Premium

WBW4-N-L020-UNV-DM-C35-AP-xx-xx	2067	15.35	134.71	Premium
WBW4-N-L020-UNV-DM-C35-AF-xx-xx	2092	15.35	136.29	Premium
WBW4-N-L020-UNV-DM-C40-AP-xx-xx	2122	15.35	138.25	Premium
WBW4-N-L020-UNV-DM-C40-AF-xx-xx	2146	15.35	139.86	Premium

WBW8-N-L040-UNV-DM-C35-AP-xx-xx	4235	29.03	145.90	Premium
WBW8-N-L040-UNV-DM-C35-AF-xx-xx	4285	29.03	147.61	Premium
WBW8-N-L040-UNV-DM-C40-AP-xx-xx	4346	29.03	149.73	Premium
WBW8-N-L040-UNV-DM-C40-AF-xx-xx	4397	29.03	151.48	Premium

WBW4-N-L030-UNV-DM-C35-AP-xx-xx	3048	22.17	137.50	Premium
WBW4-N-L030-UNV-DM-C35-AF-xx-xx	3084	22.17	139.11	Premium
WBW4-N-L030-UNV-DM-C40-AP-xx-xx	3128	22.17	141.11	Premium
WBW4-N-L030-UNV-DM-C40-AF-xx-xx	3164	22.17	142.76	Premium

WBW8-N-L060-UNV-DM-C35-AP-xx-xx	6195	43.66	141.91	Premium
WBW8-N-L060-UNV-DM-C35-AF-xx-xx	6268	43.66	143.56	Premium
WBW8-N-L060-UNV-DM-C40-AP-xx-xx	6358	43.66	145.63	Premium
WBW8-N-L060-UNV-DM-C40-AF-xx-xx	6432	43.66	147.33	Premium

WBW4-N-L040-UNV-DM-C35-AP-xx-xx	3971	29.52	134.54	Premium
WBW4-N-L040-UNV-DM-C35-AF-xx-xx	4018	29.52	136.11	Premium
WBW4-N-L040-UNV-DM-C40-AP-xx-xx	4075	29.52	138.07	Premium
WBW4-N-L040-UNV-DM-C40-AF-xx-xx	4123	29.52	139.68	Premium

WBW8-N-L080-UNV-DM-C35-AP-xx-xx	8029	59.00	136.09	Premium
WBW8-N-L080-UNV-DM-C35-AF-xx-xx	8123	59.00	137.68	Premium
WBW8-N-L080-UNV-DM-C40-AP-xx-xx	8239	59.00	139.66	Premium
WBW8-N-L080-UNV-DM-C40-AF-xx-xx	8336	59.00	141.29	Premium