

The Standard Box Wrap (SBW) Fixture family has been developed to dramatically improve energy efficiency and quality of light using Solid State Lighting (SSL) technologies. The Standard Box 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.	CRI	LENS (DIFFUSER)	HOUSING COLOR / FINISH	FIXTURE OPTIONS
SBW - Standard Box Wrap Fixture	1 - 1' 2 - 2' 3 - 3' 4 - 4' 6 - 6' 8 - 8'	N - Normal C - Custom (Specify)	L010 10W L020 15W L030 22W L040 30W L050 37W L060 44W L070 51W L080 59W L090 67W L100 74W L110 82W L120 89W L130 96W L140 103W L150 110W L160 117W	UNV - Universal Voltage (120v - 277v) (60 Hz) 120 - 120v* 277 - 277v* 347 - 347v* *Special order only	DM - 0-10v Low Voltage (Standard) DM1 - 0-10v Low Voltage* Dimming (1% - 100%) LH1 - Lutron Hi-Lume* Dimming (1% - 100%) LV - Line Voltage* Dimming (120V only) DA1 - Dali-2 and D4i cert* Dimming (1% - 100%) *Special Order Only	C27 - 2700 K* C30 - 3000 K* C35 - 3500 K C40 - 4000 K C50 - 5000 K* *Special Order Only	Blank -80 CRI 9 - 90 CRI* S - Sunlike 95 CRI* *Special Order Only	AP - Clear, Linear Prismatic Acrylic Lens (Standard) NL - No Lens	PP - Prepainted (White) (Standard With Pop Rivet Construction) GW - Gloss White (Smooth) TW - Textured White TB - Textured Black CS - Custom Finish (Specify)	VC - "V"- Cables SNS21x - Philips Wireless Sensor (EasySense) ††† SVP - Silvair PIR Wireless Sensor ††† SVM - Silvair Microwave Sensor ††† LAR - Lutron Athena Wireless control RF Only ††††† LAP - Lutron Athena Wireless PIR Sensor ††† LVR - Lutron Vive Wireless control RF Only ††††† LVP - Lutron Vive Wireless PIR Sensor ††† WLS - Wave Linx Integral PIR Sensor ††† Axx - Auxiliary output 12 or 24V EM - Emergency Battery Pack †

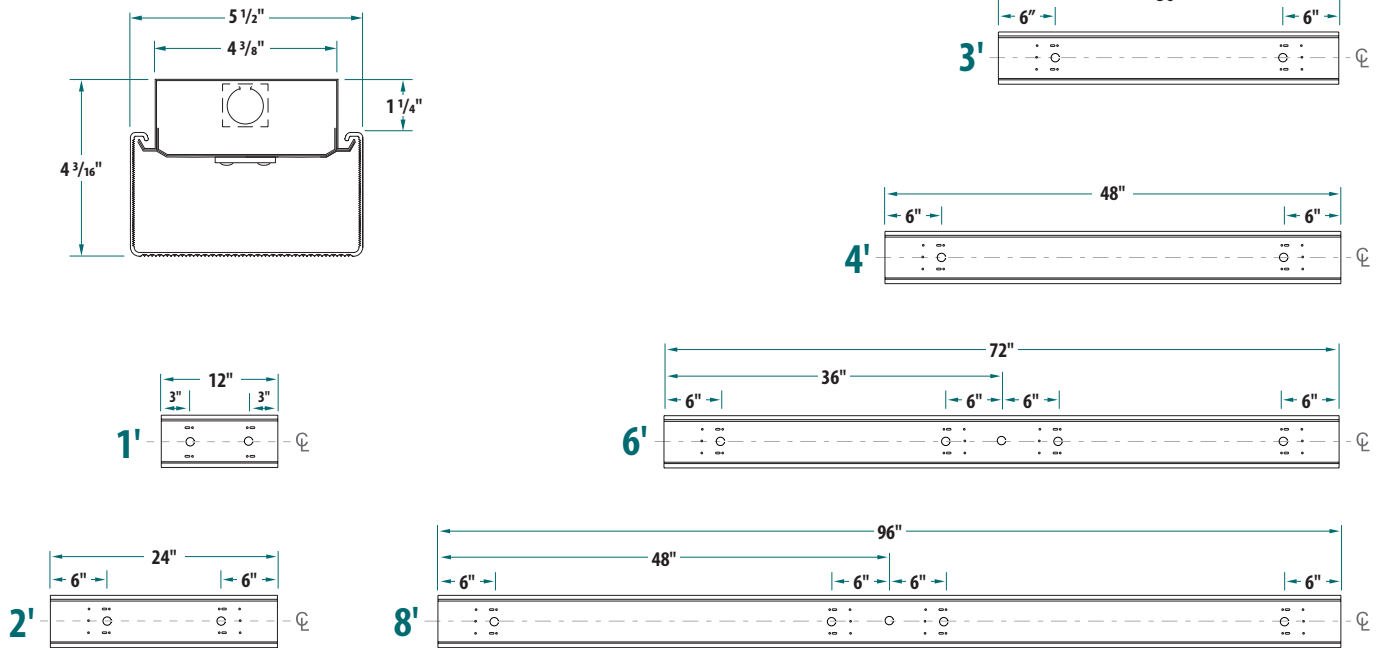
† Standard "EM" option to be NiCd Battery @ 5 Watts constant power @ 90 min. duration (standard). Consult factory for all available options.  
 † † PIR sensors provide: Occupancy/Vacancy, Daylight Harvesting, Task Tuning & Advanced Grouping control options. (max 12 ft mounting height, highbay options available upon request)  
 † † † Microwave sensor provides: Occupancy/Vacancy, Task Tuning, Energy Monitoring & Advanced Grouping control options. (Sensor not visible from exterior of fixture, max 12 ft mounting height)  
 † † † † RF sensors provide: Wireless fixture control only. (Wireless controls must be located within 60 ft (18 m) from each other in the line of sight, or 30 ft (9 m) through walls)

\* Standard "EM" option to be NiCd Battery @ 1000 Lumens @ 90 min. duration [standard]. Consult factory for all available options.  
 \*\* SBWV Series Fixtures have a lumen output range from 300 Lumens through 12,000 Lumens depending on length of fixture and driver/board configuration. Consult factory for correct catalog number on all custom configured lighting products.

**(Hg) PRIORITY 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](http://www.lamprecycle.org).

SBW Cross Section & Fixture Dimensions

Prefix: SBW



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

Design Features / Specifications

CONSTRUCTION

- Housing to be manufactured from code-gauge, die-formed cold rolled steel
- All components are mechanically / resistance welded fasted for strength and rigidity
- Electrical Knock-Outs (EKO's) are provide in end caps and housing

REFLECTOR:

- Reflectors are precision die-formed from code-gauged cold rolled steel. finish is high-reflectance - white powder coat baked enamel. (94%T.R. Min.)
- Driver Cover is secured into housing with thumb nut style fasteners for ease of maintenance

FINISH:

- All housings and components manufactured from cold rolled steel receive a multi-stage iron phosphate pre-treatment prior to finishing.
- Gloss white polyester powder coat baked enamel for extreme durability and architectural aesthetics. Pre-Paint is standard. Post-Paint is optional.
- Custom colors and finishes are available as an option (including color-matching).

LEDs / OPTICS:

- High performance LED boards manufactured specifically for interior lighting. LED boards feature the most current 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) standard, 90 CRI and Sunlike 95 CRI Options available.
- RoHS Compliant.
- Always consult factory for the latest developments and improvements concerning LEDs and Optics.

DRIVERS:

- Electronic, constant current type. Universal voltage (120v-277v).
- 0-10v dimmable. 10-100% (Standard)
  - 100% (Optional).
- Line Voltage Dimming Drivers are optional.
- Auxiliary output (Optional) used to power various sensors / wireless modules. (12 or 24Vdc options specify when ordering)
- Suitable for dry and damp locations.
- UL Recognized Class P, RoHS Compliant.

ELECTRICAL:

- Surface/Suspended fixtures are UL/CUL listed and labeled
- LM80 Performance for 50,000+ hours.
- Driver disconnect provided where required to comply with US and Candaian codes

DIFFUSER:

- Custom extruded from special bled of 100% virgin acrylic & high light transmission / LED diffusing polymer. 30% DR additive use to increase resistance to breakage.
- Extruded linear ribs provide clean, aesthetic, architectural look.
- Lens thickness to be 0.080" (standard). Consult factory for special requiremetns.

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.

QUALITY CONTROL:

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

WARRANTY:

5-year limited warranty. Please refer to REVNOVA's website at [www.renova.com/sales/warranties](http://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.

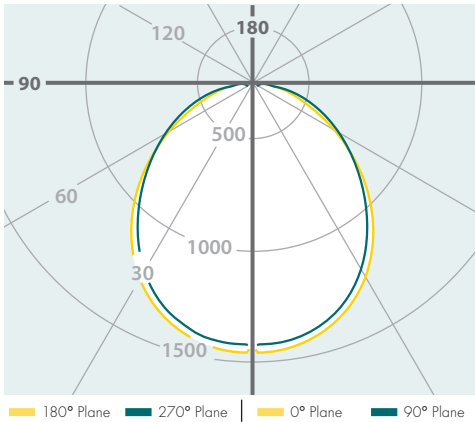
Photometric data, IES files and all other information is available on request.

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.



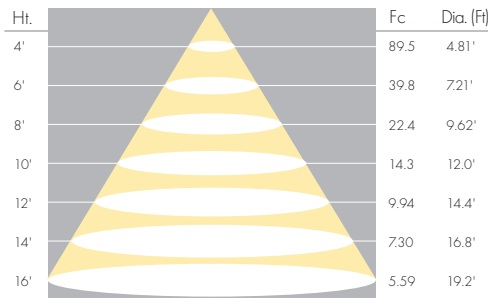
Catalog #: SBW4-N-L030-UNV-DM-C40-AF-PP  
 Photometric Test Report #: 1063452-1108194  
 Delivered Lumens: 2829  
 Efficacy (Lumens/Watt): 124.3  
 Power: 25.89w @ 120 VAC  
 Power Factor: 0.996  
 Current THD: 6.96%  
 CRI: 82.8  
 CCT: 4118 K  
 LED Life: 50,000+ hrs

**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%

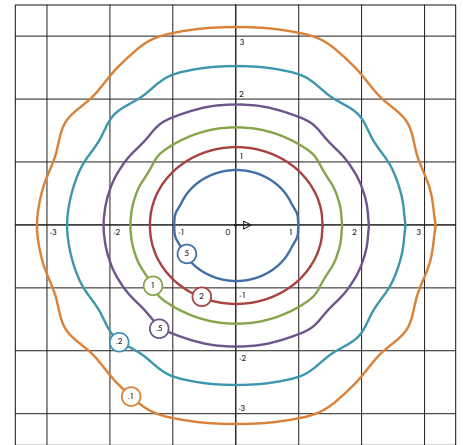
Ceiling Cavity Reflectance	80				70				50		
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10
Room Cavity Ratio (RCR)	** Values are expressed as lumens delivered to the task surface **										
0	4428	4428	4428	4428	4315	4315	4315	4315	4103	4103	4103
1	4042	3863	3703	3558	3931	3769	3624	3491	3594	3474	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/m<sup>2</sup>)**  
 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