



# RETROFIT SOLUTION LED

## RBCW500 SERIES

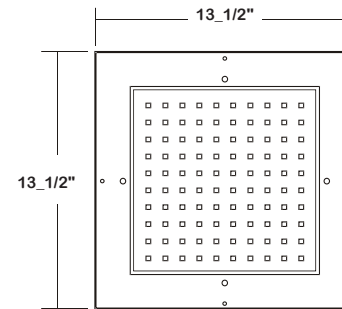
BCW500 CANOPY RETROFIT SOLUTION

DATE	
JOB	

WWW.LALIGHTING.COM  
626-454-8300

**EASILY CONVERTS THE L.A. LIGHTING EXISTING CANOPY BCW500 FLUORESCENT FIXTURES TO LED LUMINAIRES**

### DIMENSIONS



*\*Dimensions must be checked against host fixture to ensure the retrofit solution will fit properly  
\*L.A. Lighting has the capability to modify the retrofit solution to fit your fixture*

### FEATURES

- LED retrofit solution for the L.A. Lighting canopy BCW500 fluorescent luminaires
- 0-10V dimming driver standard (packaged separately)
- Includes easy-to-read installation instructions
- 1 safety cable pre-installed
- Supports California Title 24 compliance

### OPTIONS

- Full customization available upon request
- Additional lumen packages and color temperatures available
- Controls and sensors available
- Wireless control options available
- Emergency battery pack available
- Tamper proof screws available
- Custom colors available

### SPECIFICATIONS

#### CONSTRUCTION

- Aluminum LED cover tray
- LED cover tray to be secured to the host fixture with provided screws

#### FINISH

- Baked white powder coated finish / painted after fabrication / minimum reflectance 90%

#### OPTICAL

- Polycarbonate injection molded lens

#### ELECTRICAL

- High efficiency drivers coupled with long-life LEDs
- Service life greater than 50,000 hours (L70)
- Universal voltage 120V through 277V (347V / 480V available)
- LED light engine is pre-wired with a quick connector for easy connection
- Driver-disconnect is provided for disconnecting the electrical supply conductors to the LED driver
- Power Factor (PF)  $\geq 0.9$
- Total Harmonic Distortion (THD)  $\leq 20\%$

#### LISTING

- UL USA and Canada classified

#### WARRANTY

- 5-Year limited warranty standard. 10-Year limited warranty also available



**Los Angeles Lighting Mfg. Co.**  
Contact Us  
T: 626-454-8300 10141 Olney Street  
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www.lalighting.com Made in the USA



Due to continued product improvements and enhancements, Los Angeles Lighting Manufacturing Company reserves the right to alter specifications, dimensions, data, and/or materials without notice. Please visit our website to view the most current information.

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Revised: 07/24/23



**ORDERING INFORMATION**

**EXAMPLE:** RBCW500-3-1L-DRCDM-UNV-1/840

RETROFIT SERIES	LED LUMEN PACKAGE	NOMINAL LENGTH	COLOR	MECHANICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED MODULE	CRI / CCT
<b>RBCW500</b>		<b>1L</b>				<b>DRCDM</b>	<b>UNV</b>	<b>1</b>	
<b>RBCW500</b> Canopy Fluorescent BCW500 Fixture to LED Luminaire Retrofit Solution	<b>3</b> Nom. 3000 Lumens <b>4</b> Nom. 4000 Lumens  <b>*Additional Lumen Packages Available</b>	<b>1L</b> 1' x 1'	<b>(Blank)</b> Standard White  <b>BLK</b> Matte Black  <b>CS</b> Camaro Silver  <b>BZ</b> Statuary Bronze	<b>TP</b> Tamper Proof Screws (Hex Socket with Post)  *Leave Blank if Not Specified	<b>BPL1.5</b> 1500lm Emergency Battery Pack  <b>MSHxx</b> Motion Sensor High Frequency  <b>WLC(LED RU)</b> EnOcean Wireless Control  *Leave Blank if Not Specified  <i>Additional Electrical Options</i>	<b>DRCDM</b> 0-10V and Step Dimming Combined Driver	<b>UNV</b> 120V-277V	<b>1</b> One LED Module	<b>840</b> 80+CRI / 4000K Color Temp.  <b>850</b> 80+CRI / 5000K Color Temp.  *Additional Color Temp. Available
<p>Standard options for RBCW500 shown above. For additional options, including lumen packages, controls, lenses, switches, finishes, and more, visit <a href="http://www.lalighting.com/resources">www.lalighting.com/resources</a> or contact customer service.</p>									

**SYSTEM DATA**

**THESE ARE THE MOST POPULAR LUMEN PACKAGES. PLEASE CONSULT FACTORY FOR ADDITIONAL SYSTEM DATA.**

LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS*	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	CFL EQUIVALENT	IES FILES
3000 Lumens (Nominal)	RBCW500-3-1L-DRCDM-UNV-1/840	3172 lm	29 W	109.4 lm/W	-20°C / 35°C	2-26WCFL G24Q-3	<a href="#">LA-T2207-1</a>
4000 Lumens (Nominal)	RBCW500-4-1L-DRCDM-UNV-1/840	4042 lm	41 W	98.6 lm/W	-20°C / 35°C	2-32WCFL GXG24Q-3	<a href="#">LA-T2293-2</a>

**NOTE:**

System data is based on 120V input voltage. Actual performance may differ as a result of end-user environment and application.

\* As tested in a host fixture

This fixture has been tested and listed in accordance with UL Standards. L.A. Lighting certifies that it will operate safely when installed properly, and within an ambient temperature range noted in the system data table.

Additional lumen packages and color temperatures available.



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**PHOTOMETRIC DATA - RBCW500 SERIES**

**RBCW500-3-1L-DRCDM-UN-1/840**

TEST NO.=LA-T2207-1  
 LED SYSTEM=144 LED MODULE  
 NO. OF MODULE=1  
 SYSTEM WATT (W)=31.94  
 CRI=85  
 CCT (K)=4000  
 L70(Hrs.)=168,000  
 PHOTOMETRY TYPE=C  
 HOST FIXTURE=BCW500 with Polycarbonate Injection Molded Lens



**CANDLEPOWER**

ANGLE	END	45	CROSS
0	963	963	963
5	959	958	958
15	942	942	939
25	918	906	914
35	869	863	869
45	730	731	729
55	529	495	527
65	342	326	341
75	214	215	215
85	103	122	108
90	68	71	74
95	58	41	63
105	39	19	35
115	29	9	16
125	19	0	0
135	10	0	0
145	0	0	0
155	0	0	0
165	0	0	0
175	0	0	0
180	0	0	0

**ZONAL LUMEN SUMMARY**

DEGREES	LUMENS	% FIXTURE
0-30	779	24.6
0-40	1319	41.6
0-60	2340	73.8
0-90	3026	95.4
90-120	136	4.3
90-150	146	4.6
90-180	146	4.6
0-180	3172	100

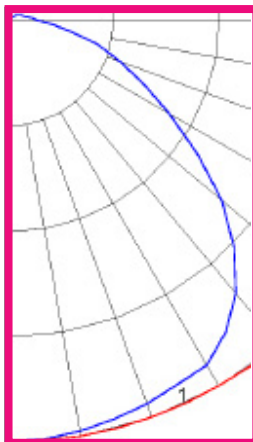
Lumen Output = 3172 lumens  
 Luminaire Efficacy = 99 lm/w

**SPACING CRITERION**

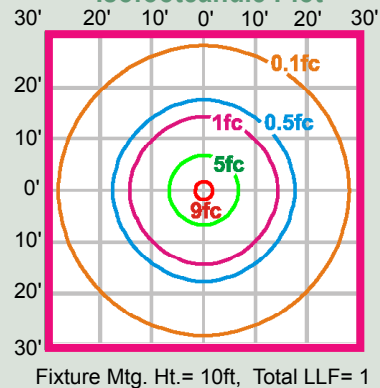
ALONG	ACROSS
1.40	1.40

**System Spec. Matrix**

	With Emergency BP	Without Emergency BP
Sensor	Yes	Yes
System Watts	32	29
Lumen Output	3172	3172
Efficacy	99 lm/w	109 lm/w
CCT	4000K	4000K
CRI	85	85
L70	168,000	168,000



**Isofootcandle Plot**



**RBCW500-4-1L-1DRCDM-UNV-1/840**

TEST NO.=LA-T2293-2  
 LED SYSTEM=144 LED MODULE  
 NO. OF MODULE=1  
 SYSTEM WATT (W)=43.90  
 CRI=84  
 CCT (K)=4000  
 L70(Hrs.)=136,000  
 PHOTOMETRY TYPE=C  
 HOST FIXTURE=BCW500 with Polycarbonate Injection Molded Lens



**CANDLEPOWER**

ANGLE	END	45	CROSS
0	1235	1235	1235
5	1234	1232	1229
15	1210	1212	1209
25	1179	1166	1175
35	1113	1106	1112
45	927	931	927
55	674	629	668
65	440	415	436
75	272	271	272
85	133	151	136
90	88	106	92
95	77	82	77
105	48	36	41
115	33	19	16
125	21	12	12
135	13	14	13
145	0	0	0
155	0	0	0
165	0	0	0
175	0	0	0
180	0	0	0

**ZONAL LUMEN SUMMARY**

DEGREES	LUMENS	% FIXTURE
0-30	1002	24.8
0-40	1693	41.9
0-60	2991	74.0
0-90	3866	95.6
90-120	155	3.8
90-150	177	4.4
90-180	177	4.4
0-180	4042	100.0

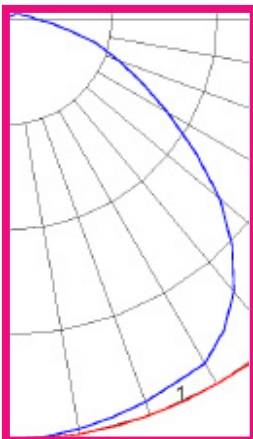
Lumen Output = 4042 lumens  
 Luminaire Efficacy = 92 lm/w

**SPACING CRITERION**

ALONG	ACROSS
1.40	1.40

**System Spec. Matrix**

	With Emergency BP	Without Emergency BP
Sensor	Yes	Yes
System Watts	44	41
Lumen Output	4042	4042
Efficacy	92 lm/w	99 lm/w
CCT	4000K	4000K
CRI	84	84
L70	136,000	136,000



**Isofootcandle Plot**

