

**itl boulder**  
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.  
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REPORT NUMBER: ITL63748  
DATE: 12/04/09  
PREPARED FOR: BETA LIGHTING, INC.

Page 1 of 3

CATALOG NUMBER: BXAL1512C-UW (350mA)

LUMINAIRE: EXTRUDED WHITE PAINTED METAL HOUSING, FABRICATED WHITE PAINTED METAL BALLAST MOUNTING PLATE, CAST WHITE PAINTED METAL END CAPS, FORMED PERFORATED METAL TOP, SIX EXTRUDED FINNED METAL HEAT SINKS, EACH HEAT SINK CONTAINS ONE CIRCUIT BOARD WITH 20 LEDS, CAST WHITE PAINTED METAL TRIM PLATE, ONE CLEAR PLASTIC NON-INTEGRAL LENS BELOW EACH LED.

LAMPS: ONE HUNDRED TWENTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

LED DRIVER: BETA LED CE366X01R0

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (240VAC, 60Hz) TO THE LED DRIVER. CLIENT STATES LEDS HAVE BEEN SEASONED FOR A MINIMUM OF 100 HOURS.



INSTRUMENTATION: Kikusui PCR500L AC Power Source  
Yokogawa WT210 Digital Power Meter  
Optronics OL770 Spectroradiometer  
ITL 1.5 Meter Diameter 4 $\pi$  Steradian Integrating Sphere

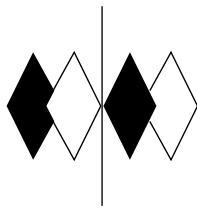
OBJECT OF TEST: Report the Absolute Flux in Lumens\*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters to the luminaire.

PROCEDURE: The luminaire was provided by customer and the LEDs had an unknown number of burn hours. The luminaire was mounted inside the integrating sphere with the luminaire horizontal (LEDs facing down). The luminaire was allowed to stabilize at 240 VAC input. After stabilization occurred, spectral power distribution, CCT, CRI, x/y chromaticity coordinates, ANSI C78.377 Duv, and input electrical data were measured with the luminaire operating in the integrating sphere. In order to measure the mean performance, twenty data sets were recorded and averaged within the OL770. Readings were taken with the luminaire operating at 240 VAC input in a 25 +/-1 degree Celsius free air ambient and in accordance with IESNA LM-79-08. All data are traceable to the National Institute of Standards and Technology.

\*NOTE: The total lumen output shown on this report was obtained from photometric test ITL63746.

RESULTS: (continued next page)

Checked: 
Approved: 



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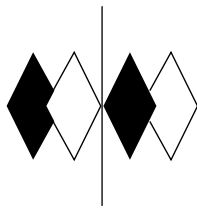
PREPARED FOR: BetaLED a Division of Ruud Lighting

CATALOG NUMBER: BXAL1512C-U(350mA)/ARE-EDG-T5-DA-12-C-UL

## RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	11013*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3268
Chromaticity Ordinate y	0.3547
Correlated Color Temp CCT (K)	5737
Color Rendering Index (CRI)	73
ANSI C78.377-2008 Duv	0.009
ELECTRICAL	
Input Voltage (Volts AC)	240.0
Input Current (mA AC)	600
Input Power (Watts)	141.9
EFFICACY (Lumens/Watt)	
	77.6

\*NOTE: The total lumen output shown on this report was obtained from photometric test ITL63746.



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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	3.471	515	133.105	650	63.561
385	3.570	520	146.476	655	57.294
390	3.650	525	160.465	660	51.547
395	4.139	530	170.306	665	46.151
400	4.685	535	176.449	670	41.374
405	5.908	540	181.165	675	36.848
410	8.413	545	183.593	680	32.783
415	13.729	550	184.618	685	29.142
420	25.234	555	184.700	690	25.910
425	46.335	560	183.323	695	22.931
430	78.795	565	181.598	700	20.320
435	118.698	570	178.216	705	17.959
440	167.588	575	174.199	710	15.883
445	228.754	580	169.757	715	13.981
450	262.209	585	164.083	720	12.372
455	231.785	590	157.915	725	10.880
460	171.232	595	150.778	730	9.583
465	127.223	600	143.250	735	8.425
470	99.275	605	135.253	740	7.417
475	78.838	610	126.752	745	6.567
480	65.673	615	118.441	750	5.759
485	59.706	620	110.288	755	5.094
490	59.488	625	101.391	760	4.521
495	65.308	630	93.081	765	3.963
500	79.213	635	85.124	770	3.489
505	96.270	640	77.512	775	3.082
510	113.792	645	70.481	780	2.722

