

itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL63577
DATE: 11/10/09
PREPARED FOR: BETA LIGHTING, INC.

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CATALOG NUMBER: BXAL1312C-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) TO THE LED DRIVER. CLIENT STATES LEDS HAVE BEEN SEASONED FOR A MINIMUM OF 100 HOURS.


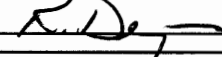
INSTRUMENTATION: Kikusui PCR500L AC Power Source
Yokogawa WT210 Digital Power Meter
Optronics OL770 Spectroradiometer
ITL 1.5 Meter Diameter Integrating Sphere

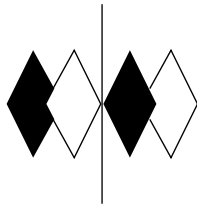
OBJECT OF TEST: Report the Absolute Flux in Lumens*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters to the luminaire.

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 ITL63574.

RESULTS: (continued next page)

Checked: 
Approved: 



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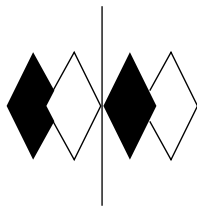
PREPARED FOR: BetaLED a Division of Ruud Lighting

CATALOG NUMBER: BXAL1312C-U(350mA)/ARE-EDG-3M-DA-12-C-UL

RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	9914*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3285
Chromaticity Ordinate y	0.3583
Correlated Color Temp CCT (K)	5664
Color Rendering Index (CRI)	72
ANSI C78.377-2008 Duv	0.010
ELECTRICAL	
Input Voltage (Volts AC)	240.0
Input Current (mA AC)	595
Input Power (Watts)	140.6
EFFICACY (Lumens/Watt)	70.5

*NOTE: The total lumen output shown on this report was obtained from photometric test ITL63574.



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PREPARED FOR: BetaLED a Division of Ruud Lighting

CATALOG NUMBER: BXAL1312C-U (350mA) / ARE-EDG-3M-DA-12-C-UL

RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	3.096	515	119.759	650	57.142
385	3.185	520	132.212	655	51.536
390	3.271	525	144.817	660	46.361
395	3.727	530	153.981	665	41.575
400	4.192	535	159.451	670	37.265
405	5.254	540	163.408	675	33.249
410	7.568	545	165.926	680	29.600
415	12.489	550	166.696	685	26.287
420	23.202	555	166.676	690	23.389
425	42.506	560	165.513	695	20.734
430	71.475	565	163.694	700	18.337
435	106.436	570	160.901	705	16.289
440	147.966	575	157.322	710	14.364
445	199.354	580	153.070	715	12.641
450	227.534	585	147.836	720	11.150
455	201.426	590	142.056	725	9.875
460	148.654	595	135.626	730	8.648
465	110.145	600	128.675	735	7.631
470	86.084	605	121.354	740	6.717
475	68.796	610	113.663	745	5.937
480	57.525	615	106.019	750	5.235
485	52.428	620	98.639	755	4.627
490	52.687	625	90.826	760	4.085
495	58.277	630	83.416	765	3.587
500	70.722	635	76.253	770	3.154
505	85.902	640	69.611	775	2.792
510	102.054	645	63.193	780	2.469

