

itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL63877
DATE: 12/17/09
PREPARED FOR: BETA LIGHTING, INC.

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CATALOG NUMBER: BXSE0304C-U (350mA)

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

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

LED DRIVER: ADVANCE LED-INTA-700C-140-F30

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 4π Steradian Integrating Sphere

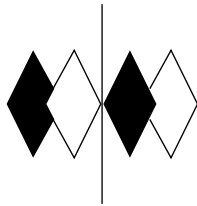
OBJECT OF TEST: Report the Absolute Flux in Lumens*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters to the luminaire.

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 spectroradiometer. 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 ITL63874.

RESULTS: (continued next page)

Checked: <i>[Signature]</i>
Approved: <i>[Signature]</i>



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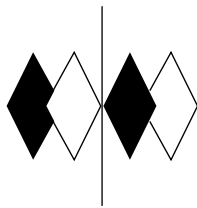
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CATALOG NUMBER: BXSE0304C-U (350mA)

RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	3311*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3304
Chromaticity Ordinate y	0.3565
Correlated Color Temp CCT (K)	5589
Color Rendering Index (CRI)	71
ANSI C78.377-2008 Duv	0.009
ELECTRICAL	
Input Voltage (Volts AC)	240.0
Input Current (mA AC)	231
Input Power (Watts)	51.3
EFFICACY (Lumens/Watt)	64.5

*NOTE: The total lumen output shown on this report was obtained from photometric test ITL63874.



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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	1.133	515	39.297	650	19.217
385	1.170	520	43.985	655	17.349
390	1.216	525	48.276	660	15.594
395	1.389	530	51.468	665	13.942
400	1.594	535	53.295	670	12.473
405	2.035	540	54.751	675	11.119
410	3.012	545	55.604	680	9.898
415	5.127	550	55.949	685	8.782
420	9.693	555	55.923	690	7.789
425	17.886	560	55.614	695	6.902
430	29.681	565	55.040	700	6.118
435	43.299	570	54.086	705	5.408
440	58.873	575	52.921	710	4.778
445	75.024	580	51.503	715	4.205
450	76.593	585	49.806	720	3.710
455	59.931	590	47.924	725	3.269
460	41.418	595	45.784	730	2.880
465	30.383	600	43.449	735	2.530
470	23.411	605	40.995	740	2.231
475	18.579	610	38.446	745	1.968
480	15.862	615	35.863	750	1.730
485	14.857	620	33.411	755	1.532
490	15.354	625	30.691	760	1.355
495	17.691	630	28.207	765	1.191
500	22.055	635	25.800	770	1.044
505	27.557	640	23.504	775	0.924
510	33.344	645	21.328	780	0.816

