

itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL63825
DATE: 12/11/09
PREPARED FOR: BETA LIGHTING, INC.

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CATALOG NUMBER: BXAL1524C-UT (350mA)

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

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

LED DRIVERS: TWO 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 4π Steradian Integrating Sphere

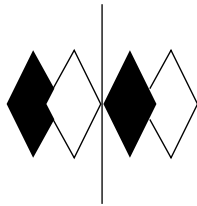
OBJECT OF TEST: Report the Absolute Flux in Lumens*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters to the luminaire.

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 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 ITL63822.

RESULTS: (continued next page)

Checked: 
Approved: 



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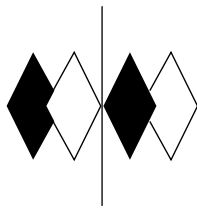
PREPARED FOR: BetaLED a Division of Ruud Lighting

CATALOG NUMBER: BXAL1524C-U(350mA)/ARE-EDG-5M-DA-24-C-UL

RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	21779*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3270
Chromaticity Ordinate y	0.3540
Correlated Color Temp CCT (K)	5730
Color Rendering Index (CRI)	72
ANSI C78.377-2008 Duv	0.009
ELECTRICAL	
Input Voltage (Volts AC)	240.0
Input Current (Amps AC)	1.23
Input Power (Watts)	292.1
EFFICACY (Lumens/Watt)	
	74.6

*NOTE: The total lumen output shown on this report was obtained from photometric test ITL63822.



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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	7.133	515	263.513	650	125.483
385	7.408	520	289.702	655	113.178
390	7.670	525	317.592	660	101.808
395	8.789	530	337.586	665	91.113
400	10.058	535	349.719	670	81.683
405	12.885	540	359.040	675	72.931
410	18.775	545	364.258	680	64.904
415	31.459	550	366.129	685	57.651
420	58.053	555	366.073	690	51.237
425	105.505	560	363.522	695	45.386
430	176.044	565	359.738	700	40.208
435	259.656	570	353.266	705	35.576
440	357.843	575	345.485	710	31.507
445	474.598	580	336.736	715	27.717
450	520.164	585	325.410	720	24.567
455	436.646	590	312.949	725	21.598
460	314.282	595	298.737	730	19.022
465	232.946	600	283.494	735	16.753
470	180.690	605	267.215	740	14.764
475	143.603	610	250.466	745	13.036
480	120.976	615	233.752	750	11.502
485	111.289	620	217.476	755	10.151
490	112.254	625	199.960	760	9.019
495	125.246	630	183.473	765	7.897
500	154.496	635	167.878	770	6.958
505	189.251	640	153.069	775	6.165
510	224.251	645	138.930	780	5.440

