

itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL63824
DATE: 12/11/09
PREPARED FOR: BETA LIGHTING, INC.

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CATALOG NUMBER: BXAL1212C-UW (350mA)

LUMINAIRE: EXTRUDED BLACK PAINTED METAL HOUSING, FABRICATED BLACK PAINTED METAL BALLAST MOUNTING PLATE, CAST BLACK PAINTED METAL END CAPS, FORMED PERFORATED METAL TOP, SIX EXTRUDED FINNED METAL HEAT SINKS, EACH HEAT SINK CONTAINS ONE CIRCUIT BOARD WITH 20 LEDES, CAST BLACK 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 LEDES HAVE BEEN SEASONED FOR A MINIMUM OF 100 HOURS.

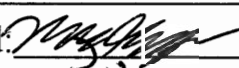
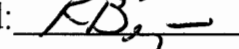
INSTRUMENTATION: Kikusui PCR500L AC Power Source
Yokogawa WT210 Digital Power Meter
Optronics OL770 Spectroradiometer
ITL 1.5 Meter Diameter 4π Steradian Integrating Sphere

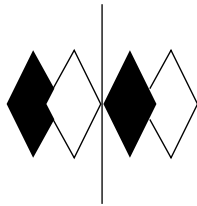
OBJECT OF TEST: Report the Absolute Flux in Lumens*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters to the luminaire.

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 ITL63821.

RESULTS: (continued next page)

Checked: 
Approved: 



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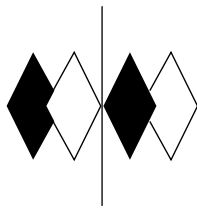
PREPARED FOR: BetaLED a Division of Ruud Lighting

CATALOG NUMBER: BXAL1212C-U(350mA)/ARE-EDG-2M-DA-12-C-UL

RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	10355*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3281
Chromaticity Ordinate y	0.3552
Correlated Color Temp CCT (K)	5682
Color Rendering Index (CRI)	72
ANSI C78.377-2008 Duv	0.009
ELECTRICAL	
Input Voltage (Volts AC)	240.0
Input Current (mA AC)	627
Input Power (Watts)	148.3
EFFICACY (Lumens/Watt)	
	69.8

*NOTE: The total lumen output shown on this report was obtained from photometric test ITL63821.



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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	3.310	515	124.602	650	60.046
385	3.411	520	136.949	655	54.266
390	3.526	525	150.525	660	48.742
395	3.992	530	159.982	665	43.681
400	4.539	535	165.960	670	39.136
405	5.833	540	170.611	675	34.895
410	8.543	545	173.156	680	31.073
415	14.189	550	174.155	685	27.628
420	26.080	555	174.248	690	24.524
425	47.376	560	172.903	695	21.781
430	79.503	565	171.333	700	19.293
435	118.120	570	168.247	705	17.095
440	164.192	575	164.446	710	15.110
445	220.407	580	160.282	715	13.312
450	246.356	585	154.903	720	11.775
455	210.875	590	149.149	725	10.363
460	152.180	595	142.413	730	9.137
465	111.931	600	135.183	735	8.051
470	86.463	605	127.696	740	7.083
475	68.308	610	119.688	745	6.269
480	57.210	615	111.731	750	5.529
485	52.407	620	104.141	755	4.869
490	52.858	625	95.758	760	4.323
495	58.783	630	87.889	765	3.792
500	72.754	635	80.371	770	3.336
505	89.296	640	73.245	775	2.965
510	105.787	645	66.562	780	2.603

