

**itl boulder**

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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REPORT NUMBER: ITL63998 Page 1 of 3  
DATE: 01/06/10  
PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

CATALOG NUMBER: BXCP\*A06C-U (525mA)

LUMINAIRE: CAST GRAY PAINTED METAL HOUSING, CAST GRAY PAINTED METAL LED DRIVER COVER, TWO EXTRUDED FINNED METAL HEAT SINKS, EACH HEAT SINK CONTAINS ONE CIRCUIT BOARD WITH 30 LEDS, CAST GRAY PAINTED METAL TRIM PLATE, ONE CLEAR NON-INTEGRAL PLASTIC LENS BELOW EACH LED.

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

LED DRIVER: BETA LED CE336X01R0

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.


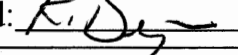
INSTRUMENTATION: Kikusui PCR500L AC Power Source  
Yokogawa WT210 Digital Power Meter  
Optronics OL770 Spectroradiometer  
ITL 1.5 Meter Diameter 4 $\pi$  Steradian Integrating Sphere

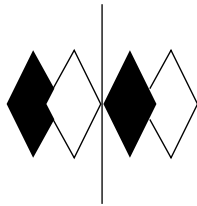
OBJECT OF TEST: Report the Absolute Flux in Lumens\*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters including Total Harmonic Distortion (THD) to the luminaire.

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 ITL63994.

RESULTS: (continued subsequent pages)

Checked: 
Approved: 



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Page 2 of 3

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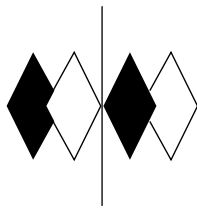
PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

CATALOG NUMBER: BXCP1A06C-U (525mA)/CAN-304-PS-RS-06-C-UL

## RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	8675*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3307
Chromaticity Ordinate y	0.3577
Correlated Color Temp CCT (K)	5573
Color Rendering Index (CRI)	72
ANSI C78.377-2008 Duv	0.009
ELECTRICAL	
Input Voltage (Volts AC)	240.0
Input Current (mA AC)	494
Input Power (Watts)	116.3
Total Harmonic Distortion – Current (%)	5.8
Total Harmonic Distortion – Voltage (%)	0.1
EFFICACY (Lumens/Watt)	74.6

\*NOTE: The total lumen output shown on this report was obtained from photometric test ITL63994.



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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	2.951	515	102.521	650	50.561
385	3.025	520	114.787	655	45.646
390	3.125	525	125.988	660	41.093
395	3.598	530	134.372	665	36.784
400	4.100	535	139.239	670	32.977
405	5.219	540	143.192	675	29.409
410	7.679	545	145.497	680	26.169
415	12.912	550	146.444	685	23.291
420	24.078	555	146.631	690	20.676
425	43.941	560	145.723	695	18.325
430	72.908	565	144.211	700	16.245
435	107.518	570	141.789	705	14.410
440	147.110	575	138.697	710	12.719
445	188.056	580	135.017	715	11.232
450	196.403	585	130.525	720	9.920
455	161.225	590	125.620	725	8.723
460	115.352	595	119.942	730	7.704
465	84.497	600	113.804	735	6.803
470	64.934	605	107.411	740	5.981
475	51.544	610	100.715	745	5.302
480	43.610	615	93.957	750	4.670
485	40.372	620	87.557	755	4.133
490	41.468	625	80.456	760	3.659
495	47.279	630	73.968	765	3.224
500	58.228	635	67.682	770	2.837
505	72.293	640	61.768	775	2.505
510	87.225	645	56.040	780	2.214

