

itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.

3386 LONGHORN ROAD, BOULDER, CO 80302 USA

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REPORT NUMBER: ITL64000 Page 1 of 3
DATE: 01/07/10
PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

CATALOG NUMBER: STR-LWY-2MB-**-04-C-UL-WH or BXSL0G04C-UW (525mA)

LUMINAIRE: CAST WHITE PAINTED METAL HOUSING WITH CAST WHITE PAINTED METAL ACCESS DOOR, CAST WHITE PAINTED METAL FORWARD HOUSING PIECE, TWO CIRCUIT BOARDS EACH WITH 20 LEDS AND CAST WHITE PAINTED METAL TRIM PLATE, ONE CLEAR NON-INTEGRAL PLASTIC LENS BELOW EACH LED, ONE SMALL RUBBER HOUSE SIDE SHIELD 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 4 π Steradian Integrating Sphere

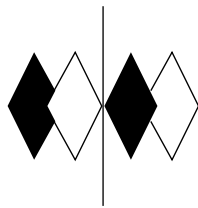
OBJECT OF TEST: Report the Absolute Flux in Lumens*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters including Total Harmonic Distortion (THD) to the luminaire.

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 ITL63996.

RESULTS: (continued subsequent pages)

Checked:	
Approved:	



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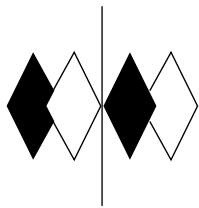
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RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	3534*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3230
Chromaticity Ordinate y	0.3440
Correlated Color Temp CCT (K)	5922
Color Rendering Index (CRI)	72
ANSI C78.377-2008 Duv	0.006
ELECTRICAL	
Input Voltage (Volts AC)	240.0
Input Current (mA AC)	307
Input Power (Watts)	70.3
Total Harmonic Distortion – Current (%)	10.6
Total Harmonic Distortion – Voltage (%)	0.1
EFFICACY (Lumens/Watt)	50.3

*NOTE: The total lumen output shown on this report was obtained from photometric test ITL63996.



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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	1.334	515	42.250	650	20.267
385	1.358	520	47.187	655	18.276
390	1.429	525	51.660	660	16.438
395	1.662	530	54.934	665	14.687
400	1.887	535	56.840	670	13.144
405	2.407	540	58.371	675	11.708
410	3.531	545	59.202	680	10.426
415	6.002	550	59.557	685	9.260
420	11.355	555	59.497	690	8.214
425	21.004	560	59.153	695	7.258
430	35.156	565	58.528	700	6.443
435	51.996	570	57.537	705	5.695
440	71.455	575	56.242	710	5.026
445	90.023	580	54.707	715	4.431
450	89.541	585	52.890	720	3.917
455	69.703	590	50.892	725	3.445
460	48.877	595	48.592	730	3.035
465	35.758	600	46.079	735	2.674
470	27.176	605	43.430	740	2.356
475	21.337	610	40.717	745	2.078
480	18.017	615	37.964	750	1.828
485	16.646	620	35.355	755	1.618
490	17.054	625	32.472	760	1.425
495	19.514	630	29.821	765	1.249
500	24.110	635	27.254	770	1.112
505	29.901	640	24.808	775	0.979
510	35.999	645	22.507	780	0.863

