

itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL64830 Page 1 of 3
DATE: 05/13/10
PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

CATALOG NUMBER: STR-LWY-4M-**-04-D-UL-WH or BXSL0404D-UW (525mA)

LUMINAIRE: CAST WHITE PAINTED METAL HOUSING WITH CAST WHITE PAINTED METAL ACCESS DOOR, CAST WHITE PAINTED METAL FORWARD HOUSING PIECE, TWO EXTRUDED FINNED METAL HEAT SINKS, TWO CIRCUIT BOARDS EACH WITH 20 LEDS AND CAST WHITE PAINTED METAL TRIM PLATE, ONE CLEAR NON-INTEGRAL PLASTIC 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.

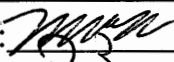
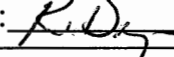
INSTRUMENTATION: Kikusui PCR500L AC Power Source
Yokogawa WT210 Digital Power Meter
Optronics OL770 Spectroradiometer
ITL 1.5 Meter Diameter Integrating Sphere, 4 π Geometry

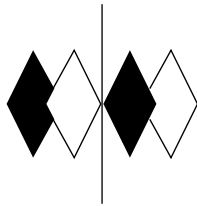
OBJECT OF TEST: Report the Absolute Flux in Lumens*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters including Total Harmonic Distortion (THD) to the luminaire.

PROCEDURE: The luminaire was provided by customer and the LEDs had a minimum of 100 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, multiple data sets were recorded and averaged. 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 ITL64826.

RESULTS: (continued subsequent pages)

Checked:	
Approved:	



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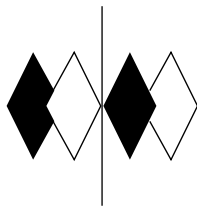
CATALOG NUMBER: STR-LWY-4M-**-04-D-UL-WH or BXSL0404D-UW (525mA)

RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	5514*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3134
Chromaticity Ordinate y	0.3395
Correlated Color Temp CCT (K)	6351
Color Rendering Index (CRI)	72
ANSI C78.377-2008 Duv	0.008
ELECTRICAL	
Input Voltage (Volts AC)	240.0
Input Current (mA AC)	297
Input Power (Watts)	67.6
Total Harmonic Distortion – Current (%)	13.0
Total Harmonic Distortion – Voltage (%)	0.1
EFFICACY (Lumens/Watt)	81.6

*NOTE:

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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	2.113	515	70.132	650	28.583
385	2.144	520	77.697	655	25.554
390	2.208	525	83.984	660	22.807
395	2.509	530	88.403	665	20.232
400	2.844	535	90.679	670	17.974
405	3.539	540	92.308	675	15.895
410	4.912	545	92.950	680	14.019
415	7.752	550	92.892	685	12.355
420	14.218	555	92.429	690	10.881
425	26.607	560	91.545	695	9.560
430	46.508	565	90.174	700	8.405
435	73.420	570	88.543	705	7.369
440	110.233	575	86.391	710	6.492
445	152.768	580	83.807	715	5.667
450	160.839	585	80.773	720	4.979
455	124.353	590	77.285	725	4.359
460	84.602	595	73.463	730	3.815
465	60.700	600	69.378	735	3.330
470	45.226	605	65.145	740	2.933
475	34.735	610	60.703	745	2.576
480	28.928	615	56.204	750	2.257
485	26.805	620	51.981	755	1.986
490	27.815	625	47.469	760	1.747
495	32.508	630	43.233	765	1.531
500	40.459	635	39.280	770	1.329
505	50.317	640	35.499	775	1.182
510	60.365	645	31.961	780	1.034

