

itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL64944 Page 1 of 3

DATE: 05/21/10

PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

CATALOG NUMBER: STR-LWY-3M-**-10-C-UL-43K or BXSL0310C-U7 (525mA)

LUMINAIRE: CAST GRAY PAINTED METAL HOUSING WITH CAST GRAY PAINTED METAL ACCESS DOOR, EXTRUDED FINNED METAL HEAT SINK, CAST GRAY PAINTED METAL FORWARD HOUSING PIECE, FIVE CIRCUIT BOARDS EACH WITH 20 LEDS AND CAST GRAY PAINTED METAL TRIM PLATE, ONE CLEAR PLASTIC NON-INTEGRAL LENS BELOW EACH LED.

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

LED DRIVER: BETA LED CE366X01R0, 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.


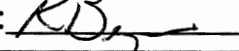
INSTRUMENTATION: Kikusui PCR2000L AC Power Source
Yokogawa WT210 Digital Power Meter
Ocean Optics QE65000 Spectroradiometer
ITL 2.0 Meter Diameter Integrating Sphere, 4π Geometry

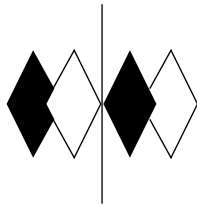
OBJECT OF TEST: Report the Absolute Flux in Lumens*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters including Total Harmonic Distortion (THD) to the luminaire.

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 ITL64940.

RESULTS: (continued subsequent pages)

Checked:	
Approved:	



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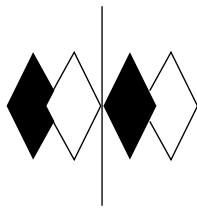
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RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	9654*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3589
Chromaticity Ordinate y	0.3563
Correlated Color Temp CCT (K)	4521
Color Rendering Index (CRI)	79
ANSI C78.377-2008 Duv	-0.003
ELECTRICAL	
Input Voltage (Volts AC)	240.0
Input Current (mA AC)	746
Input Power (Watts)	173.6
Total Harmonic Distortion – Current (%)	6.1
Total Harmonic Distortion – Voltage (%)	0.1
EFFICACY (Lumens/Watt)	55.6

*NOTE: The total lumen output shown on this report was obtained from photometric test ITL64940.



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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	1.316	515	99.166	650	88.916
385	1.602	520	112.171	655	81.914
390	2.023	525	123.556	660	75.106
395	2.637	530	132.920	665	68.282
400	3.932	535	139.433	670	61.797
405	6.642	540	143.899	675	55.764
410	10.657	545	147.696	680	50.036
415	19.389	550	150.682	685	44.800
420	35.683	555	152.981	690	40.016
425	60.144	560	154.509	695	35.627
430	92.867	565	155.780	700	31.520
435	129.324	570	156.078	705	27.873
440	168.122	575	156.154	710	24.741
445	198.220	580	155.717	715	21.738
450	188.788	585	154.817	720	19.025
455	143.700	590	152.857	725	16.654
460	101.814	595	150.312	730	14.587
465	75.963	600	147.525	735	12.749
470	58.757	605	143.862	740	11.182
475	47.219	610	139.646	745	9.786
480	40.913	615	135.247	750	8.544
485	38.736	620	129.960	755	7.462
490	40.415	625	123.496	760	6.570
495	46.517	630	116.575	765	5.696
500	57.043	635	110.411	770	4.979
505	70.597	640	103.441	775	4.356
510	85.171	645	96.169	780	3.789

