

itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL64788 Page 1 of 3
DATE: 05/11/10
PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

CATALOG NUMBER: STR-LWY-3M-**-08-C-UL-WH-43K or BXSLO308C-U7W (525mA)

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

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

LED DRIVER: TWO 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.

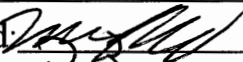

INSTRUMENTATION: Kikusui PCR500L AC Power Source
Yokogawa WT210 Digital Power Meter
Optronics OL770 Spectroradiometer
ITL 1.5 Meter Diameter Integrating Sphere, 4 π Geometry

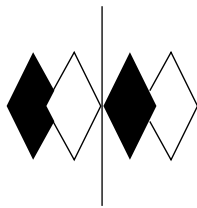
OBJECT OF TEST: Report the Absolute Flux in Lumens*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters including Total Harmonic Distortion (THD) to the luminaire.

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, 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 ITL64785.

RESULTS: (continued subsequent pages)

Checked: 
Approved: 



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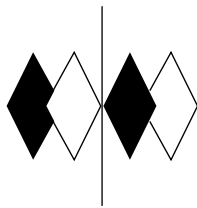
CATALOG NUMBER: STR-LWY-3M-**-08-C-UL-WH-43K or BXSL0308C-U7W (525mA)

RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	7880*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3632
Chromaticity Ordinate y	0.3624
Correlated Color Temp CCT (K)	4414
Color Rendering Index (CRI)	78
ANSI C78.377-2008 Duv	-0.001
ELECTRICAL	
Input Voltage (Volts AC)	240.0
Input Current (mA AC)	608
Input Power (Watts)	140.5
Total Harmonic Distortion – Current (%)	9.7
Total Harmonic Distortion – Voltage (%)	0.0
EFFICACY (Lumens/Watt)	56.1

*NOTE:

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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	2.250	515	81.500	650	72.668
385	2.364	520	90.317	655	67.009
390	2.514	525	100.174	660	61.484
395	2.938	530	107.869	665	56.001
400	3.364	535	112.900	670	50.858
405	4.384	540	117.428	675	45.801
410	6.526	545	120.590	680	41.058
415	11.308	550	122.953	685	36.704
420	21.441	555	124.892	690	32.740
425	39.214	560	126.178	695	29.147
430	65.009	565	127.240	700	25.832
435	94.541	570	127.813	705	22.836
440	127.240	575	127.795	710	20.185
445	156.056	580	127.434	715	17.748
450	150.151	585	126.730	720	15.612
455	114.024	590	125.427	725	13.684
460	81.023	595	123.491	730	11.989
465	60.963	600	121.064	735	10.469
470	47.147	605	117.970	740	9.170
475	38.027	610	114.482	745	8.030
480	33.044	615	110.498	750	7.023
485	31.028	620	106.643	755	6.132
490	32.146	625	101.390	760	5.378
495	36.595	630	96.239	765	4.684
500	46.304	635	90.785	770	4.089
505	57.782	640	84.756	775	3.570
510	68.844	645	78.894	780	3.116

