

itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.

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REPORT NUMBER: ITL64117

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DATE: 01/26/10

PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

CATALOG NUMBER: PKG-EDG-5S-**-03-C-UL or BXPS0R06C-UW (350mA)

LUMINAIRE: EXTRUDED WHITE PAINTED METAL HOUSING WITH CAST WHITE PAINTED METAL END CAPS, FABRICATED WIRE CAGE MOUNTING ASSEMBLY, THREE EXTRUDED FINNED METAL HEAT SINKS, EACH HEAT SINK CONTAINS ONE CIRCUIT BOARD WITH 20 LEDS, CAST WHITE PAINTED METAL TRIM PLATE, ONE CLEAR NON-INTEGRAL PLASTIC LENS BELOW EACH LED. TWO FORMED WHITE PAINTED SOLID METAL TRIM PLATES.

LAMPS: SIXTY 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.

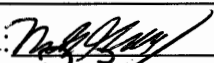
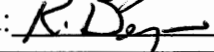
INSTRUMENTATION: Kikusui PCR500L AC Power Source
Xitron Technologies Model 2503AH Power Analyzer
Optronics OL770 Spectroradiometer
ITL 1.5 Meter Diameter 4π Geometry Integrating Sphere

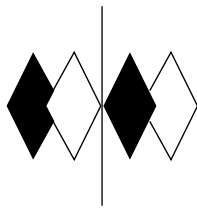
OBJECT OF TEST: Report the Absolute Flux in Lumens*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters including Total Harmonic Distortion (THD) to the luminaire.

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 ITL64112.

RESULTS: (continued subsequent pages)

Checked: 
Approved: 



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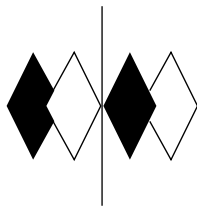
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RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	5797*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3296
Chromaticity Ordinate y	0.3577
Correlated Color Temp CCT (K)	5618
Color Rendering Index (CRI)	72
ANSI C78.377-2008 Duv	0.010
ELECTRICAL	
Input Voltage (Volts AC)	240.0
Input Current (mA AC)	317
Input Power (Watts)	72.7
Total Harmonic Distortion – Current (%)	10.2
Total Harmonic Distortion – Voltage (%)	0.1
EFFICACY (Lumens/Watt)	79.7

*NOTE: The total lumen output shown on this report was obtained from photometric test ITL64112.



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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	1.935	515	68.906	650	33.672
385	1.953	520	76.885	655	30.375
390	1.989	525	84.254	660	27.313
395	2.242	530	89.759	665	24.406
400	2.514	535	92.937	670	21.853
405	3.113	540	95.519	675	19.452
410	4.365	545	96.896	680	17.299
415	7.039	550	97.495	685	15.367
420	12.906	555	97.448	690	13.631
425	23.881	560	96.924	695	12.089
430	40.836	565	95.892	700	10.712
435	62.043	570	94.331	705	9.480
440	87.772	575	92.316	710	8.365
445	119.918	580	89.922	715	7.366
450	136.770	585	86.913	720	6.514
455	119.047	590	83.657	725	5.731
460	85.698	595	79.944	730	5.045
465	62.538	600	75.859	735	4.448
470	48.448	605	71.591	740	3.912
475	38.372	610	67.152	745	3.458
480	31.976	615	62.654	750	3.034
485	29.200	620	58.402	755	2.686
490	29.368	625	53.692	760	2.374
495	32.720	630	49.352	765	2.089
500	39.766	635	45.143	770	1.839
505	49.037	640	41.153	775	1.623
510	58.810	645	37.338	780	1.435

