

itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL64199 Page 1 of 3
DATE: 02/10/10
PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

CATALOG NUMBER: PKG-EDG-PS-**-06-C-UL or BXPS0A06C-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.

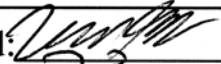
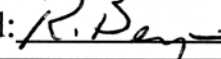
INSTRUMENTATION: Kikusui PCR2000L AC Power Source
Xitron Technologies Model 2503AH Power Analyzer
Optronics OL770 Spectroradiometer
ITL 1.5 Meter Diameter 4π Geometry Integrating Sphere

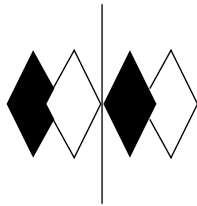
OBJECT OF TEST: Report the Absolute Flux in Lumens*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters including Total Harmonic Distortion (THD) to the luminaire.

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 ITL64194.

RESULTS: (continued subsequent pages)

Checked: 
Approved: 



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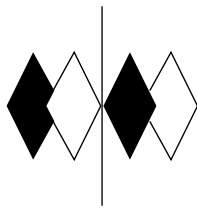
CATALOG NUMBER: PKG-EDG-PS-**-06-C-UL or BXPS0A06C-UW (350mA)

RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	6148*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3307
Chromaticity Ordinate y	0.3596
Correlated Color Temp CCT (K)	5575
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)	72.8
Total Harmonic Distortion – Current (%)	10.2
Total Harmonic Distortion – Voltage (%)	0.1
EFFICACY (Lumens/Watt)	84.5

*NOTE:

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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	2.014	515	72.935	650	35.625
385	2.046	520	81.508	655	32.133
390	2.078	525	89.342	660	28.930
395	2.351	530	95.197	665	25.834
400	2.631	535	98.574	670	23.166
405	3.246	540	101.318	675	20.631
410	4.563	545	102.878	680	18.346
415	7.349	550	103.470	685	16.319
420	13.469	555	103.504	690	14.496
425	24.966	560	102.950	695	12.838
430	42.539	565	101.834	700	11.367
435	64.662	570	100.212	705	10.067
440	91.520	575	98.011	710	8.903
445	125.208	580	95.438	715	7.839
450	142.832	585	92.237	720	6.912
455	124.295	590	88.832	725	6.093
460	89.438	595	84.860	730	5.376
465	65.299	600	80.542	735	4.727
470	50.689	605	75.973	740	4.173
475	40.131	610	71.243	745	3.683
480	33.503	615	66.421	750	3.239
485	30.663	620	61.945	755	2.870
490	30.907	625	56.897	760	2.526
495	34.471	630	52.282	765	2.226
500	42.030	635	47.837	770	1.958
505	51.839	640	43.599	775	1.725
510	62.251	645	39.574	780	1.533

