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REPORT NUMBER: ITL61915
DATE: 3/11/09
PREPARED FOR: BARE DEVELOPMENT, INC.
CATALOG NUMBER: HTS-8

LUMINAIRE: FABRICATED WHITE PAINTED METAL MOUNTING PLATE, EXTRUDED FINNED METAL HEAT SINK, ONE WHITE CIRCUIT BOARD WITH 36 LEDS, OPEN SIDES. CIRCUIT BOARD STOOD-OFF OF LENS 1/4".

LAMP: THIRTY-SIX WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

DRIVER: HIGH PERFECTION TECH LP1090-24-GG-299

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE LED DRIVER.

INSTRUMENTATION: Elgar CW2501 Voltage Regulator
Yokogawa WT210 Digital Power Meter
Optronics OL770 Spectroradiometer
ITL 1.5 Meter Diameter Integrating Sphere

OBJECT OF TEST: Measure the Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters to the LED driver.

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 in a base up position (LEDs aimed down). The luminaire was allowed to stabilize at 120 VAC input. After stabilization occurred, 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 OL770. All data are traceable to the National Institute of Standards and Technology.

RESULTS:

SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Correlated Color Temp CCT (K)	6083
Chromaticity Ordinate x	0.3198
Chromaticity Ordinate y	0.3400
Color Rendering Index (CRI)	75
ANSI C78.377-2008 Duv	0.005
ELECTRICAL	
Input Voltage (Volts AC)	120.0
Input Current (mA AC)	717
Input Power (Watts)	85.6

Checked: *N Gully*
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