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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303)442-1255 • FAX: (970)535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

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REPORT NUMBER: ITL82282
DATE: 08/18/14
REVISED: 04/04/16
PREPARED FOR: OXYGEN LIGHTING
CATALOG NUMBER: 3-593-XX

ADDRESS: 201 RAILHEAD ROAD
FORT WORTH, TX 76106

LUMINAIRE: FABRICATED SEMI-SPECULAR METAL DRIVER HOUSING, FORMED SEMI-SPECULAR METAL CIRCUIT BOARD MOUNTING STRIP, 2 WHITE CIRCUIT BOARDS EACH WITH 36 LEDS, FROSTED TRANSLUCENT WHITE CYLINDRICAL ACRYLIC DIFFUSER WITH FABRICATED SEMI-SPECULAR METAL END CAPS. DIFFUSER FROSTED SIDE OUT.

LAMP: SEVENTY-TWO WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), AIMED AT THE HORIZON.

DRIVERS: TWO ESPEN VEL12030MVH-1

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVERS. ACRYLIC MATERIAL INFORMATION PROVIDED BY CLIENT.

INSTRUMENTS:	Associated Power Technologies APT5010 AC Power Source	Calibration Due: N/A
	Yokogawa WT210 Digital Power Meter #6	10/31/14
	Ocean Optics QE65000 Spectroradiometer	07/14/15
	ITL 1.5m Diameter Integrating Sphere S15-2, 4PI Geometry	07/14/15

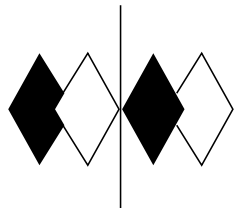
OBJECT OF TEST: Measure the Correlated Color Temperature (CCT), Color Rendering Indices (CRI_a,1-14), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and electrical data including ANSI C82.77-2002 Power Factor (PF) to the test sample.

PROCEDURE: The test sample was provided by the customer and had an unknown number of burn hours. The test sample was mounted inside the integrating sphere and allowed to stabilize. After stabilization occurred, measurements were taken. In order to measure mean performance, multiple data sets were recorded and averaged. Readings were taken with the test sample operating at 120VAC 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.

RESULTS: (continued subsequent pages)

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Checked	<i>N THOMAS</i>
Approved	<i>P O'CONNOR</i> Sphere Lab Supervisor



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NVLAP LAB CODE: 200925-0

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RESULTS:

SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.4367
Chromaticity Ordinate y	0.3979
Correlated Color Temp CCT (K)	2952
Color Rendering Index (CRI _a)	83
Color Rendering Index 1 (Light greyish red)	81
Color Rendering Index 2 (Dark greyish yellow)	90
Color Rendering Index 3 (Strong yellowish green)	96
Color Rendering Index 4 (Moderate yellowish green)	80
Color Rendering Index 5 (Light bluish green)	81
Color Rendering Index 6 (Light blue)	86
Color Rendering Index 7 (Light violet)	85
Color Rendering Index 8 (Light reddish purple)	66
Color Rendering Index 9 (Strong red)	24
Color Rendering Index 10 (Strong yellow)	76
Color Rendering Index 11 (Strong green)	77
Color Rendering Index 12 (Strong blue)	68
Color Rendering Index 13 (Light yellowish pink (skin))	83
Color Rendering Index 14 (Moderate olive green (leaf))	97
ANSI C78.377-2008 Duv	-0.002
ELECTRICAL FOR SPECTRORADIOMETRIC TEST	
Input Voltage (Volts AC)	120.0
Input Current (Amps AC)	0.203
Input Power (Watts)	24.1
Input Power Factor (%)	98.9