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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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REPORT NUMBER: ITL63787
DATE: 12/29/2009
REVISED: 02/04/2010
PREPARED FOR: B-K LIGHTING, INC.
CATALOG NUMBER: NS-LED-e23-WFL-12; AR-LED-TR-e23-WFL-12-C; AR-LED-RM-e23-WFL-12-C;
DS-LED-e23-WFL-12; RM-LED-e23-WFL-12-C; SN-LED-e23-WFL-12-C;
ST-LED-e23-WFL-12-C; SF-LED-e23-WFL-12-C; TF-LED-e23-WFL-12-C;
WS-LED-e23-WFL-12; AW-LED-e23-WFL-12; SW-LED-e23-WFL-12;
VS-LED-e23-WFL-12; VQ-LED-e23-WFL-12; GD-LED-e23-WFL-12;
GQ-LED-e23-WFL-12; EC-LED-e23-WFL-12; ED-LED-e23-WFL-12;
SM-AR-LED-e23-WFL-12-C

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LUMINAIRE: MACHINED CYLINDRICAL METAL HOUSING, ONE CIRCUIT BOARD WITH 3
LEDS, ONE CLEAR CONICAL PLASTIC OPTIC PER LED WITH FROSTED
SURFACE OPPOSITE LED, MOLDED BLACK PLASTIC OPTIC MOUNTING
FRAME, CLEAR FLAT MICRO-PRISMATIC GLASS LENS IN MACHINED WHITE
PAINTED CYLINDRICAL METAL FRAME WITH UNFINISHED INTERIOR, LENS
PRISMS IN.

LAMPS: THREE 2.5-WATT WHITE LIGHT EMITTING DIODES (LEDS) EACH WITH
CLEAR HEMISPHERICAL INTEGRAL PLASTIC LENS, LEDS AIMED AT THE
HORIZON.

DRIVER: INTEGRAL

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT
VOLTAGE (12VAC, 60Hz) TO THE LED DRIVER. LAMP INFORMATION
PROVIDED BY CLIENT.

INSTRUMENTS: Kikusui PCR500L AC Power Source
Yokogawa WT210 Digital Power Meter
Optronic Laboratories OL770 Spectroradiometer
ITL 1.5 meter Diameter 4 pi Steradian Integrating Sphere

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

PROCEDURE: The luminaire was provided by customer and had an unknown
number of burn hours. The luminaire was mounted inside the
integrating sphere in a horizontal position (LEDs aimed at the
horizon). The luminaire was allowed to stabilize at 12 VAC
input. After stabilization occurred, Correlated Color
Temperature (CCT), Color Rendering Index (CRI), Chromaticity
Coordinates (x,y), ANSI C78.377 Duv, and electrical data were
measured with the luminaire operating in the integrating
sphere. In order to measure mean performance, twenty data sets
were recorded and averaged within the spectroradiometer.
Readings were taken with the luminaire operating at 12 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.

RESULTS:

SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3896
Chromaticity Ordinate y	0.4073
Correlated Color Temp CCT (K)	3981
Color Rendering Index (CRI)	67
ANSI C78.377-2008 Duv	0.011
ELECTRICAL	
Input Voltage (Volts AC)	12.0
Input Current (Amps AC)	1.00
Input Power (Watts)	8.2

Checked N Gully

Approved R Bergin