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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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REPORT NUMBER: ITL63785
 DATE: 12/29/2009
 REVISED: 02/03/2010
 PREPARED FOR: B-K LIGHTING, INC.
 CATALOG NUMBER: NS-LED-e23-SP-12; AR-LED-TR-e23-SP-12-C; AR-LED-RM-e23-SP-12-C;
 DS-LED-e23-SP-12; RM-LED-e23-SP-12-C; SN-LED-e23-SP-12-C;
 ST-LED-e23-SP-12-C; SF-LED-e23-SP-12-C; TF-LED-e23-SP-12-C;
 WS-LED-e23-SP-12; AW-LED-e23-SP-12; SW-LED-e23-SP-12;
 VS-LED-e23-SP-12; VQ-LED-e23-SP-12; GD-LED-e23-SP-12;
 GQ-LED-e23-SP-12; EC-LED-e23-SP-12; ED-LED-e23-SP-12;
 SM-AR-LED-e23-SP-12-C

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	0.3835
Chromaticity Ordinate y	0.4001
Correlated Color Temp CCT (K)	4080
Color Rendering Index (CRI)	68
ANSI C78.377-2008 Duv	0.010
ELECTRICAL	
Input Voltage (Volts AC)	12.0
Input Current (mA AC)	988
Input Power (Watts)	8.1

Checked *N Gully*
 Approved *R Bergin*