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REPORT NUMBER: ITL64874

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DATE: 05/11/10

PREPARED FOR: THE LIGHTING QUOTIENT

CATALOG NUMBER: S305-3FT

LUMINAIRE: EXTRUDED SEMI-SPECULAR METAL LED DRIVER HOUSING. EXTRUDED SEMI-SPECULAR METAL HOUSING, EXTRUDED SEMI-SPECULAR METAL CIRCUIT BOARD MOUNTING PLATE, THREE CIRCUIT BOARDS EACH WITH 6 LEDS, ONE CLEAR PLASTIC OPTIC OVER EACH SET OF 3 LEDS, EXTRUDED CLEAR ACRYLIC LENS WITH HOLOGRAPHIC INTERIOR PLASTIC OVERLAY.

LAMPS: EIGHTEEN WHITE LIGHT EMITTING DIODES (LEDS) EACH WITH CLEAR HEMISPHERICAL INTEGRAL PLASTIC LENS, TILTED 35-DEGREES ABOVE AIMED AT THE HORIZON.

LED DRIVER: ROAL RSLD035-16

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

INSTRUMENTATION: Kikusui PCR500L AC Power Source  
Yokogawa WT210 Digital Power Meter  
Optronics OL770 Spectroradiometer  
ITL 1.5 Meter Diameter Integrating Sphere, 4π Geometry

OBJECT OF TEST: Measure the Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical data 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 in a horizontal position (LEDs aimed 35-degrees above the horizon). 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 spectroradiometer. Readings were taken with the luminaire operating at 120 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:

SPECTORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.4185
Chromaticity Ordinate y	0.3876
Correlated Color Temp CCT (K)	3197
Color Rendering Index (CRI)	83
ANSI C78.377-2008 Duv	-0.004
ELECTRICAL	
Input Voltage (Volts AC)	120.0
Input Current (mA AC)	379
Input Power (Watts)	45.4

Checked: <u>N Gully</u>
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