

itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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REPORT NUMBER: ITL66181
DATE: 10/05/10

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PREPARED FOR: THE LIGHTING QUOTIENT
CATALOG NUMBER: S301-R06G-10X60 FILM

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

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

DRIVER: ROAL RSLD035-16

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

INSTRUMENTS: Kikusui PCR2000L AC Power Source
Yokogawa WT210 Digital Power Meter
Ocean Optics QE65000 Spectroradiometer
ITL 2.0 Meter Diameter Integrating Sphere, 4π Geometry

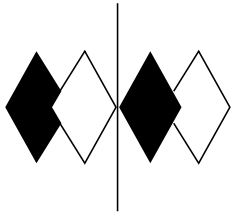
OBJECT OF TEST: Measure the Spectral Power Distribution (SPD), Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and electrical data to the luminaire.

PROCEDURE: The luminaire was provided by the customer and had an unknown number of burn hours. The luminaire was mounted inside the integrating sphere in a horizontal position (LEDs tilted 35-degrees above aimed at the horizon). The luminaire was allowed to stabilize at 120 VAC input. After stabilization occurred, Spectral Power Distribution (SPD), 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, multiple data sets were recorded and averaged. 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:

SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.4288
Chromaticity Ordinate y	0.3994
Correlated Color Temp CCT (K)	3103
Color Rendering Index (CRI)	82
ANSI C78.377-2008 Duv	-0.001
ELECTRICAL	
Input Voltage (Volts AC)	120.0
Input Current (mA AC)	352
Input Power (Watts)	42.0

Checked	<i>N Gully</i>
Approved	<i>R Bergin</i>



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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	0.127	515	17.640	650	25.401
385	0.133	520	19.579	655	23.418
390	0.164	525	21.161	660	21.419
395	0.202	530	22.337	665	19.370
400	0.282	535	23.070	670	17.450
405	0.429	540	23.814	675	15.536
410	0.660	545	24.558	680	13.831
415	1.173	550	25.345	685	12.227
420	2.217	555	26.248	690	10.770
425	4.176	560	27.291	695	9.450
430	7.263	565	28.444	700	8.240
435	11.752	570	29.702	705	7.165
440	17.595	575	31.041	710	6.222
445	22.320	580	32.405	715	5.355
450	21.378	585	33.696	720	4.609
455	15.600	590	34.896	725	3.967
460	10.397	595	35.818	730	3.397
465	7.589	600	36.390	735	2.922
470	5.881	605	36.526	740	2.515
475	4.841	610	36.267	745	2.169
480	4.500	615	35.623	750	1.873
485	4.726	620	34.711	755	1.612
490	5.552	625	33.549	760	1.392
495	7.202	630	32.237	765	1.189
500	9.595	635	30.747	770	1.024
505	12.340	640	29.141	775	0.879
510	15.082	645	27.294	780	0.757

