



INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL69020

DATE: 06/08/11

PREPARED FOR: THE LIGHTING QUOTIENT

Page 1 of 3

ADDRESS: 114 BOSTON POST ROAD
W. HAVEN, CT 06516

CATALOG NUMBER: S099-0700-C-02-1-00-0-30-00

LUMINAIRE: EXTRUDED WHITE PAINTED METAL HOUSING WITH SEMI-SPECULAR INTERIOR FINISH AND FABRICATED WHITE PAINTED METAL END PLATES, EXTRUDED SEMI-SPECULAR METAL CIRCUIT BOARD MOUNTING PLATE, ONE WHITE CIRCUIT BOARD WITH 7 LEDS, ONE CLEAR PLASTIC OPTIC OVER LEDS, EXTRUDED CLEAR PLASTIC LENS WITH HOLOGRAPHIC INTERIOR PLASTIC OVERLAY.

LAMPS: SEVEN WHITE LIGHT EMITTING DIODES (LEDS) EACH WITH CLEAR SEMI-HEMISPHERICAL INTEGRAL LENS, TILTED 44-DEGREES UP FROM VERTICAL.

DRIVER: STRATO RSLD035-7A

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

INSTRUMENTS: Associated Power Technologies APT6040 AC Power Source
Yokogawa WT210 Digital Power Meter
Ocean Optics QE65000 Spectroradiometer
ITL 2.0 Meter Diameter Integrating Sphere, 4π Geometry

OBJECT OF TEST: Report the Absolute Flux in lumens*, measure the Spectral Power Distribution (SPD), Correlated Color Temperature (CCT), Color Rendering Index (CRIa), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input and output electrical data including input Power Factor (PF) to the LED driver.

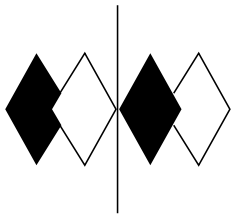
PROCEDURE: The luminaire was provided by the customer and had an unknown number of burn hours. The luminaire was mounted inside the integrating sphere in a horizontal position (see lamp description for LED orientations). The luminaire was allowed to stabilize at 120VAC input. After stabilization occurred, Spectral Power Distribution (SPD), Correlated Color Temperature (CCT), Color Rendering Index (CRIa), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical data including Power Factor (PF) and LED driver output 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 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.

*NOTE: The total lumen output shown on this report was obtained from photometric test ITL68988.

RESULTS: (continued next page)

THIS ITL REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.

Checked L Brockman
Approved R Bergin
Lighting Engineer



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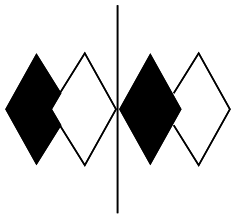
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RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	815.0*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.4381
Chromaticity Ordinate y	0.4084
Correlated Color Temp CCT (K)	3015
Color Rendering Index (CRIa)	84
ANSI C78.377-2008 Duv	0.002
ELECTRICAL	
Input Voltage (Volts AC)	120.0
Input Current (mA AC)	154
Input Power (Watts)	17.7
Input Power Factor (%)	95.8
LED DRIVER OUTPUT	
Output Voltage (Volts DC)	21.6
Output Current (mA DC)	715
Output Power (Watts)	15.4
SYSTEM EFFICACY (Lumens/Watt)	46.0

*NOTE: The total lumen output shown on this report was obtained from photometric test ITL68988.



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NVLAP LAB CODE: 200925-0

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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	0.054	515	7.685	650	11.327
385	0.066	520	8.213	655	10.505
390	0.075	525	8.732	660	9.637
395	0.094	530	9.105	665	8.757
400	0.125	535	9.386	670	7.943
405	0.197	540	9.733	675	7.110
410	0.325	545	10.116	680	6.353
415	0.636	550	10.514	685	5.643
420	1.167	555	10.987	690	4.987
425	2.013	560	11.516	695	4.414
430	3.154	565	12.051	700	3.861
435	4.417	570	12.654	705	3.370
440	5.735	575	13.245	710	2.946
445	6.979	580	13.867	715	2.547
450	6.951	585	14.472	720	2.205
455	5.316	590	14.990	725	1.905
460	3.918	595	15.466	730	1.639
465	3.205	600	15.737	735	1.416
470	2.665	605	15.876	740	1.225
475	2.345	610	15.835	745	1.054
480	2.351	615	15.594	750	0.923
485	2.632	620	15.254	755	0.791
490	3.193	625	14.766	760	0.689
495	4.027	630	14.207	765	0.591
500	5.015	635	13.611	770	0.510
505	5.993	640	12.936	775	0.441
510	6.891	645	12.149	780	0.377

