

itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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REPORT NUMBER: ITL64511 Page 1 of 3
DATE: 03/31/10
PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

CATALOG NUMBER: PWY-EDG-5S-**-18-C-UL or BXBP*R18C-U (350mA)

LUMINAIRE: FABRICATED GRAY PAINTED CYLINDRICAL METAL LOWER HOUSING, FABRICATED GRAY PAINTED METAL TOP TRIM/HEAT SINK, THREE CIRCUIT BOARDS EACH WITH SIX LEDS MOUNTED AROUND PERIMETER OF A CAST GRAY PAINTED METAL PLATE, CAST BLACK PAINTED METAL CIRCUIT BOARD RETAINING RING, ONE CLEAR PLASTIC NON-INTEGRAL LENS BELOW EACH LED. CAST GRAY PAINTED METAL LOWER HOUSING CAP WITH THREE VERTICAL SUPPORTS.

LAMPS: EIGHTEEN WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

LED DRIVER: THOMAS RESEARCH PRODUCTS TRC-025S070PS

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (240VAC, 60Hz) TO THE LED DRIVER. CLIENT STATES LEDS HAVE BEEN SEASONED FOR A MINIMUM OF 100 HOURS.

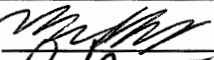
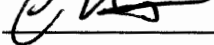
INSTRUMENTATION: Kikusui PCR500L AC Power Source
Yokogawa WT210 Digital Power Meter
Optronics OL770 Spectroradiometer
ITL 1.5 Meter Diameter Integrating Sphere, 4 π Geometry

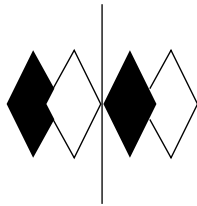
OBJECT OF TEST: Report the Absolute Flux in Lumens*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters including Total Harmonic Distortion (THD) to the luminaire.

PROCEDURE: The luminaire was provided by customer who stated that the LEDs had a minimum of 100 burn hours. The luminaire was mounted inside the integrating sphere with the luminaire in a vertical position (LEDs facing down). The luminaire was allowed to stabilize at 240 VAC input. After stabilization occurred, spectral power distribution, 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 240 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.

*NOTE: The total lumen output shown on this report was obtained from photometric test ITL64508.

RESULTS: (continued subsequent pages)

Checked: 
Approved: 



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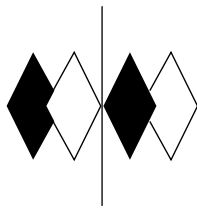
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CATALOG NUMBER: PWY-EDG-5S-**-02-C-UL or BXPB*R18C-U (350mA)

RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	1543*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3197
Chromaticity Ordinate y	0.3362
Correlated Color Temp CCT (K)	6102
Color Rendering Index (CRI)	71
ANSI C78.377-2008 Duv	0.003
ELECTRICAL	
Input Voltage (Volts AC)	240.0
Input Current (mA AC)	111
Input Power (Watts)	23.9
Total Harmonic Distortion – Current (%)	13.1
Total Harmonic Distortion – Voltage (%)	0.0
EFFICACY (Lumens/Watt)	64.6

*NOTE: The total lumen output shown on this report was obtained from photometric test ITL64508.



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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	0.613	515	18.552	650	8.728
385	0.636	520	20.749	655	7.852
390	0.672	525	22.737	660	7.051
395	0.790	530	24.206	665	6.292
400	0.909	535	25.022	670	5.616
405	1.150	540	25.641	675	4.998
410	1.669	545	25.987	680	4.430
415	2.830	550	26.099	685	3.924
420	5.504	555	26.048	690	3.475
425	10.486	560	25.878	695	3.074
430	18.028	565	25.575	700	2.716
435	27.773	570	25.151	705	2.398
440	39.197	575	24.586	710	2.117
445	46.037	580	23.911	715	1.863
450	40.346	585	23.101	720	1.644
455	28.541	590	22.224	725	1.444
460	19.037	595	21.212	730	1.268
465	13.450	600	20.076	735	1.111
470	9.937	605	18.940	740	0.981
475	7.748	610	17.730	745	0.866
480	6.572	615	16.501	750	0.758
485	6.191	620	15.350	755	0.670
490	6.602	625	14.071	760	0.591
495	7.906	630	12.901	765	0.522
500	10.145	635	11.774	770	0.457
505	12.919	640	10.717	775	0.403
510	15.742	645	9.702	780	0.357

