

itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL64088 Page 1 of 3
DATE: 01/22/10
PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

CATALOG NUMBER: FLD-EDG-25-**-06-C-UL-BK or BXALSC06C-UT (350mA)

LUMINAIRE: EXTRUDED BLACK PAINTED HOUSING, FABRICATED BLACK PAINTED METAL BALLAST MOUNTING PLATE, CAST BLACK PAINTED METAL END CAPS, FORMED PERFORATED METAL TOP, THREE EXTRUDED FINNED METAL HEAT SINKS, EACH HEAT SINK CONTAINS ONE CIRCUIT BOARD WITH 20 LEDS, CAST BROWN PAINTED METAL TRIM PLATE, ONE CLEAR NON-INTEGRAL PLASTIC LENS BELOW EACH LED.

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

LED DRIVER: ADVANCE LED-INTA-700C-140-F30

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
Xitron Technologies Model 2503AH Power Analyzer
Optronics OL770 Spectroradiometer
ITL 1.5 Meter Diameter 4π Geometry Integrating Sphere

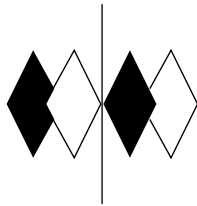
OBJECT OF TEST: Report the Absolute Flux in Lumens*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters including Total Harmonic Distortion (THD) to the luminaire.

PROCEDURE: The luminaire was provided by customer and the LEDs had an unknown number of burn hours. The luminaire was mounted inside the integrating sphere with the luminaire horizontal (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 ITL64084.

RESULTS: (continued subsequent pages)

Checked: _____
Approved: _____



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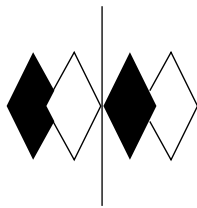
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RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	6114*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3268
Chromaticity Ordinate y	0.3552
Correlated Color Temp CCT (K)	5734
Color Rendering Index (CRI)	73
ANSI C78.377-2008 Duv	0.010
ELECTRICAL	
Input Voltage (Volts AC)	240.0
Input Current (mA AC)	315
Input Power (Watts)	72.2
Total Harmonic Distortion – Current (%)	10.1
Total Harmonic Distortion – Voltage (%)	0.1
EFFICACY (Lumens/Watt)	84.7

*NOTE: The total lumen output shown on this report was obtained from photometric test ITL64084.



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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	2.072	515	72.962	650	35.369
385	2.082	520	81.080	655	31.902
390	2.108	525	88.724	660	28.690
395	2.374	530	94.406	665	25.659
400	2.624	535	97.659	670	23.003
405	3.256	540	100.347	675	20.515
410	4.525	545	101.803	680	18.208
415	7.108	550	102.461	685	16.219
420	12.710	555	102.430	690	14.368
425	23.148	560	101.801	695	12.748
430	39.561	565	100.755	700	11.291
435	60.681	570	99.071	705	10.015
440	86.830	575	96.917	710	8.842
445	121.015	580	94.366	715	7.802
450	144.242	585	91.276	720	6.892
455	133.743	590	87.781	725	6.060
460	101.428	595	83.915	730	5.350
465	75.372	600	79.569	735	4.714
470	58.857	605	75.097	740	4.143
475	46.916	610	70.444	745	3.659
480	38.722	615	65.725	750	3.234
485	34.697	620	61.261	755	2.842
490	34.075	625	56.307	760	2.530
495	36.853	630	51.751	765	2.223
500	43.627	635	47.355	770	1.956
505	52.815	640	43.179	775	1.733
510	62.686	645	39.185	780	1.531

