

itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL64120 Page 1 of 3
DATE: 01/28/10
PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

CATALOG NUMBER: FLD-EDG-40-**-06-C-UL-BK or BXALSD06C-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 BLACK 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: BETA LED CE366X01R0

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.

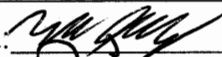
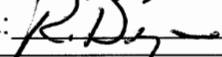
INSTRUMENTATION: Kikusui PCR500L AC Power Source
Xitron Technologies Model 2503AH Power Analyzer
Optronics OL770 Spectroradiometer
ITL 1.5 Meter Diameter 4 π Geometry Integrating Sphere

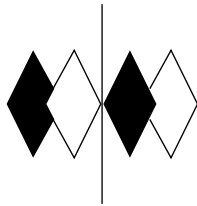
OBJECT OF TEST: Report the Absolute Flux in Lumens*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters including Total Harmonic Distortion (THD) to the luminaire.

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 ITL64115.

RESULTS: (continued subsequent pages)

Checked:	
Approved:	



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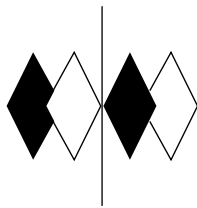
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RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	5875*
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3280
Chromaticity Ordinate y	0.3559
Correlated Color Temp CCT (K)	5683
Color Rendering Index (CRI)	73
ANSI C78.377-2008 Duv	0.009
ELECTRICAL	
Input Voltage (Volts AC)	240.0
Input Current (mA AC)	324
Input Power (Watts)	74.9
Total Harmonic Distortion – Current (%)	5.3
Total Harmonic Distortion – Voltage (%)	0.1
EFFICACY (Lumens/Watt)	78.4

*NOTE: The total lumen output shown on this report was obtained from photometric test ITL64115.



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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	2.008	515	69.900	650	34.101
385	2.028	520	77.880	655	30.744
390	2.059	525	85.247	660	27.671
395	2.308	530	90.803	665	24.704
400	2.590	535	93.983	670	22.167
405	3.228	540	96.585	675	19.737
410	4.577	545	98.028	680	17.578
415	7.369	550	98.626	685	15.619
420	13.423	555	98.592	690	13.872
425	24.599	560	98.043	695	12.300
430	41.653	565	96.994	700	10.877
435	62.885	570	95.424	705	9.631
440	88.280	575	93.300	710	8.510
445	119.653	580	90.877	715	7.505
450	137.397	585	87.856	720	6.630
455	122.661	590	84.585	725	5.830
460	91.167	595	80.855	730	5.141
465	67.497	600	76.696	735	4.523
470	52.637	605	72.423	740	3.994
475	41.938	610	67.913	745	3.539
480	34.915	615	63.379	750	3.094
485	31.613	620	59.069	755	2.743
490	31.388	625	54.333	760	2.423
495	34.423	630	49.940	765	2.136
500	41.234	635	45.710	770	1.883
505	50.290	640	41.653	775	1.658
510	59.917	645	37.818	780	1.469

