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## Photometric Test Report

Relevant Standards  
IES LM-79-2008  
ANSI C82.77-2002  
UL1598-2008

**Prepared For**  
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**Catalog Number**  
**EVG236-BB-AC-NW-UL1-XX**  
Order Number  
10745979  
Test Number  
1017695

Test Date

2015-04-09 - 2015-04-13

Prepared By

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Approved By

Jeffrey Lockner, Project Engineer

The results contained in this report pertain only to the tested sample.  
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Laboratory results may not be representative of field performance  
Ballast factors have not been applied

Testing was performed in a 3-meter integrating sphere using the 4 geometry method.

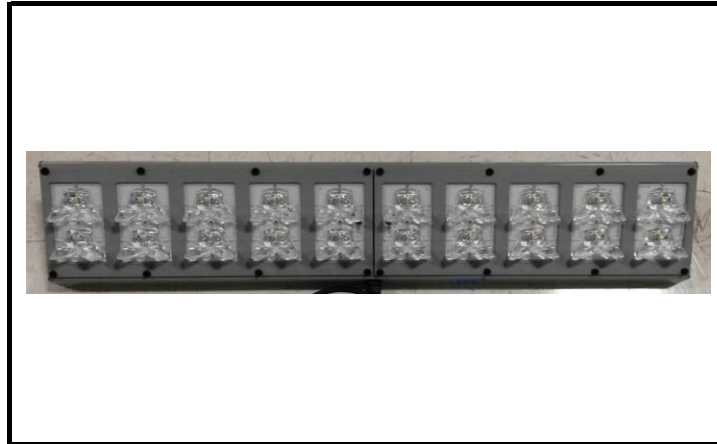
Absorption correction was employed for Sphere measurement

Tested in 30 planes left side, 30 planes right side, left and right averaged  
Vertical test increments are 2.5 degrees  
Test distance exceeds five times the greatest luminous opening of luminaire



**Luminaire Description:** Aluminum housing, steel endcaps, no enclosure  
**Lamp:** 20 white LEDs with clear optics below each  
**Mounting:** Floodlight  
**Ballast/Driver:** One LED Driver

### Luminaire



### Luminaire Characteristics

Luminous Length: 2.63 in.  
Luminous Width: 34.00 in.  
Luminous Height: 5.75 in.

### Summary of Results

#### Integrating Sphere

Total Output: 11530 Lumens  
Efficacy: 93.7 lm/w  
CCT: 4159 K  
CRI (Ra): 81.6

#### Distribution

Roadway Classification: Type IV, Very Long  
Cutoff Classification: Noncutoff  
BUG Rating: B0 U5 G2

#### Electrical Data at 277 VAC

Test Temperature: 25.3 °C  
Voltage: 277.0 VAC  
Current: 0.4853 A  
Power: 124.0 W  
Power Factor: 0.923  
Frequency: 60 Hz  
Current THD: 11.3 %

#### In-Situ

LED Temperature: 71.3 °C  
Driver Temperature: 51.9 °C  
Maximum LED Current: 1.785 A

Temperature is offset to an ambient temperature of 25°C as described in UL1598-2008.



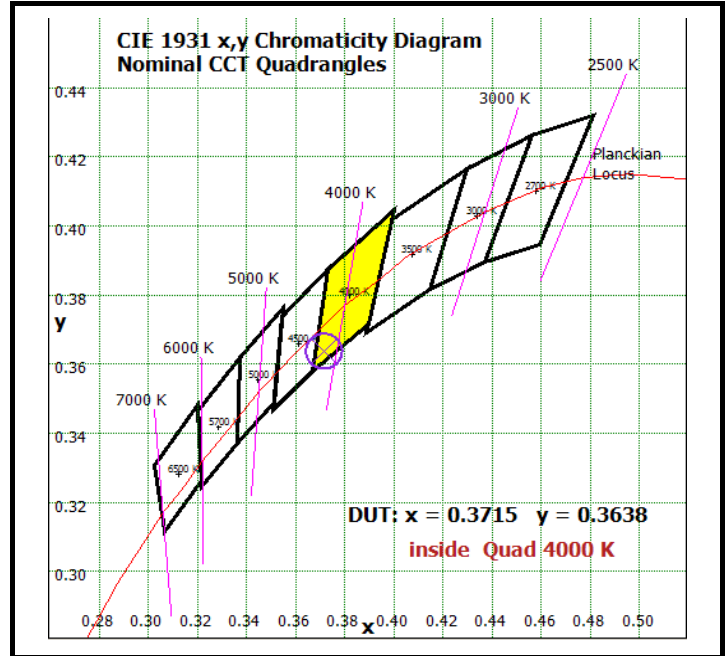
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	1.029 A	123.1 W	0.998	60 Hz	1.54 %

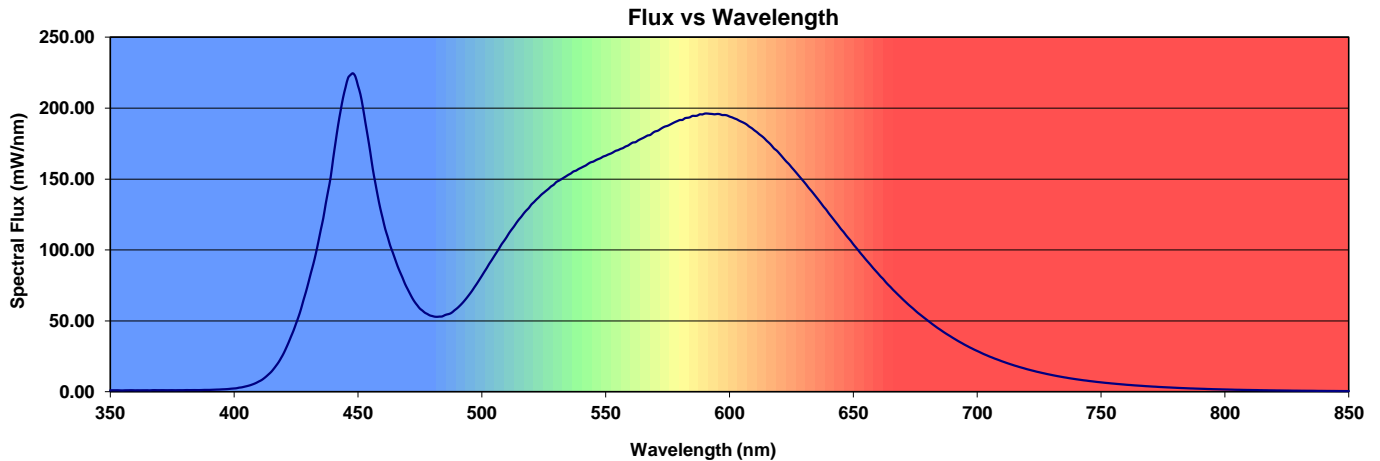
### Summary of Results

<b>Luminous Flux:</b>	11530 Lumens
<b>Efficacy:</b>	93.7 lm/w
<b>CCT:</b>	4159 K
<b>CRI (Ra):</b>	81.6
<b>CRI (R9):</b>	12.1
Chromaticity (x):	0.3715
Chromaticity (y):	0.3638
Chromaticity (u):	0.2244
Chromaticity (v):	0.3296
Chromaticity (u')	0.2244
Chromaticity (v')	0.4944
Duv:	-0.0039



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81.6	80.9	86.5	89.6	81.7	80.8	80.8	85.6	67.1	12.1	66.8	80.0	62.3	81.9	93.9





## Distribution - Goniophotometer

### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	1.029 A	123.3 W	0.998	60 Hz	1.20 %

**Cutoff Classification:**  
**BUG Rating:**

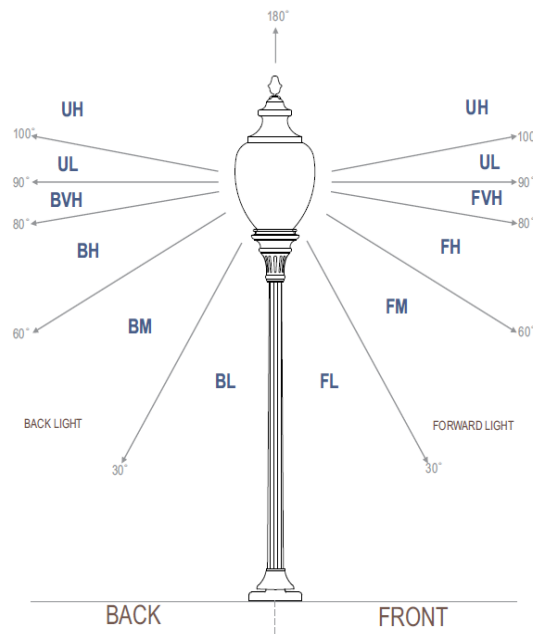
### Summary of Results

Noncutoff  
B0 U5 G2

**Total Lumen Output:**  
**Luminaire Efficacy:**  
**Maximum Candela:**

11446 Lumens  
92.8 lm/w  
672 Candela

### IES "BUG" Rating (Back Light, Uplight, Glare) Per IES TM-15-11

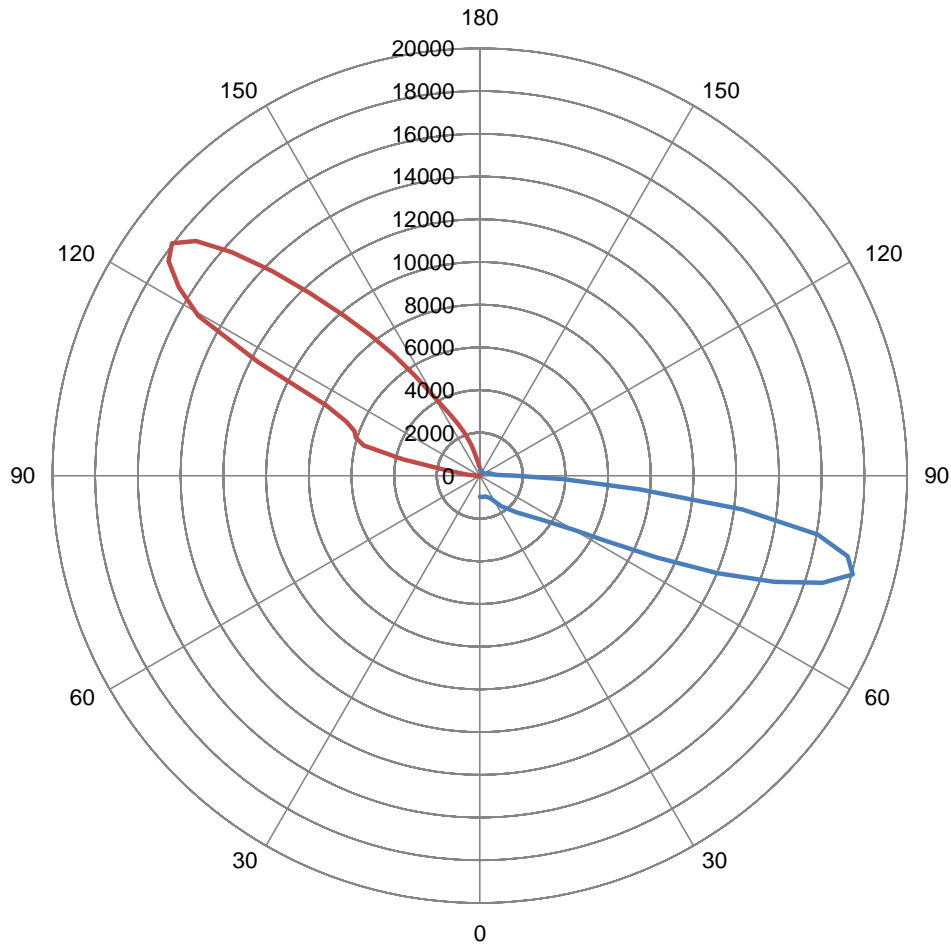


### Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	0.2	0.0%
FM	(30-60)	42.6	0.4%
FH	(60-80)	122.3	1.1%
FVH	(80-90)	124.7	1.1%
BL	(0-30)	0.0	0.0%
BM	(30-60)	0.0	0.0%
BH	(60-80)	0.9	0.0%
BVH	(80-90)	2.8	0.0%
UL	(90-100)	355.9	3.1%
UH	(100-180)	10796.7	94.3%
Total		11446.1	100.0%
<b>BUG Rating</b>	<b>B0 U5 G2</b>		



**Maximum Plane and Cone Plots of Candela**



Vertical Plane Through

75 ° Lateral

Lateral Cone Through

127.5 ° Vertical

**Maximum Intensity (Candlepower):** 18052.6 Candela

**Zonal Lumen Summary**

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	20.5	0.2%	120-125	1083.8	9.5%
5-10	0.0	0.0%	65-70	29.4	0.3%	125-130	1166.4	10.2%
10-15	0.0	0.0%	70-75	33.0	0.3%	130-135	1091.7	9.5%
15-20	0.0	0.0%	75-80	40.2	0.4%	135-140	1005.7	8.8%
20-25	0.0	0.0%	80-85	53.5	0.5%	140-145	971.5	8.5%
25-30	0.2	0.0%	85-90	74.0	0.6%	145-150	914.1	8.0%
30-35	1.9	0.0%	90-95	137.0	1.2%	150-155	825.6	7.2%
35-40	3.9	0.0%	95-100	219.0	1.9%	155-160	655.3	5.7%
40-45	5.7	0.1%	100-105	369.7	3.2%	160-165	406.4	3.6%
45-50	7.1	0.1%	105-110	550.8	4.8%	165-170	196.4	1.7%
50-55	9.8	0.1%	110-115	640.9	5.6%	170-175	74.6	0.7%
55-60	14.1	0.1%	115-120	829.2	7.2%	175-180	14.5	0.1%



## In-Situ Test

### In-Situ Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	N / A	N / A	N / A	60 Hz	N / A

### Summary of Results

LED Temperature: 71.3 °C  
Driver Temperature: 51.9 °C  
Maximum LED Current: 1.785 A

Temperatures are offset to an ambient temperature of 25°C as described in UL1598-2008

### LED Temperature Location



### Driver Temperature Location

