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## Outdoor Distribution Test Report

Relevant Standards  
IES LM-79-2008, IES LM-31-1995 (Withdrawn)  
ANSI C82.77-2002

Prepared For  
**Leotek Electronics USA LLC**  
1955 Lundy Ave  
San Jose, CA 95131  
United States

Catalog Number  
**GCJ2-30J-MV-40K-2R-XX-070**  
Order Number  
12844807  
Test Number  
12844807.15

Test Date

2019-08-29

Prepared By

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Approved By

Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Gray cast aluminum housing, plastic access panel, LED board with optics installed.  
**Lamp:** 30 White LEDs  
**Mounting:** Pole / Arm  
**Ballast/Driver:** Philips XI075C070V105CNY2

### Luminaire



### Luminaire Characteristics

Luminous Length: 6.50 in.  
Luminous Width: 9.000 in.

### Summary of Results

Roadway Classification: Type II, Medium  
BUG Rating: B2 U0 G2

### Test Conditions

Test Temperature: 25.2 °C  
Voltage: 120.0 VAC  
Current: 0.3685 A  
Power: 44.01 W  
Power Factor: 0.995  
Frequency: 60 Hz  
Current THD: 8.70 %

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

Laboratory results may not be representative of field performance  
Ballast factors have not been applied



### Distribution - Goniophotometer

#### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.3685 A	44.01 W	0.995	60 Hz	8.70 %

#### Summary of Results

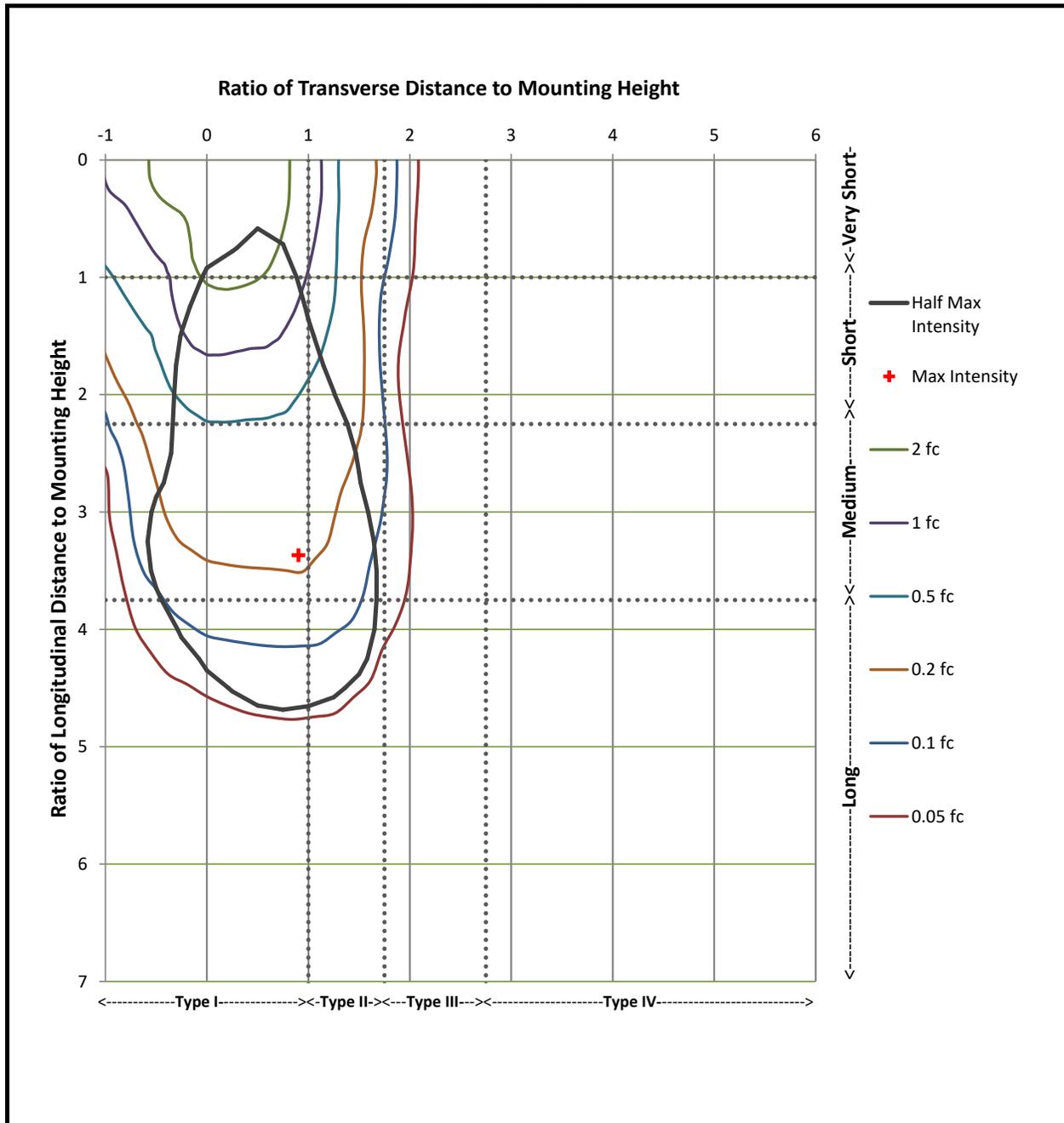
IES Roadway Classification:  
BUG Rating:

Type II, Medium  
B2 U0 G2

Total Lumen Output:  
Luminaire Efficacy:  
Maximum Candela:

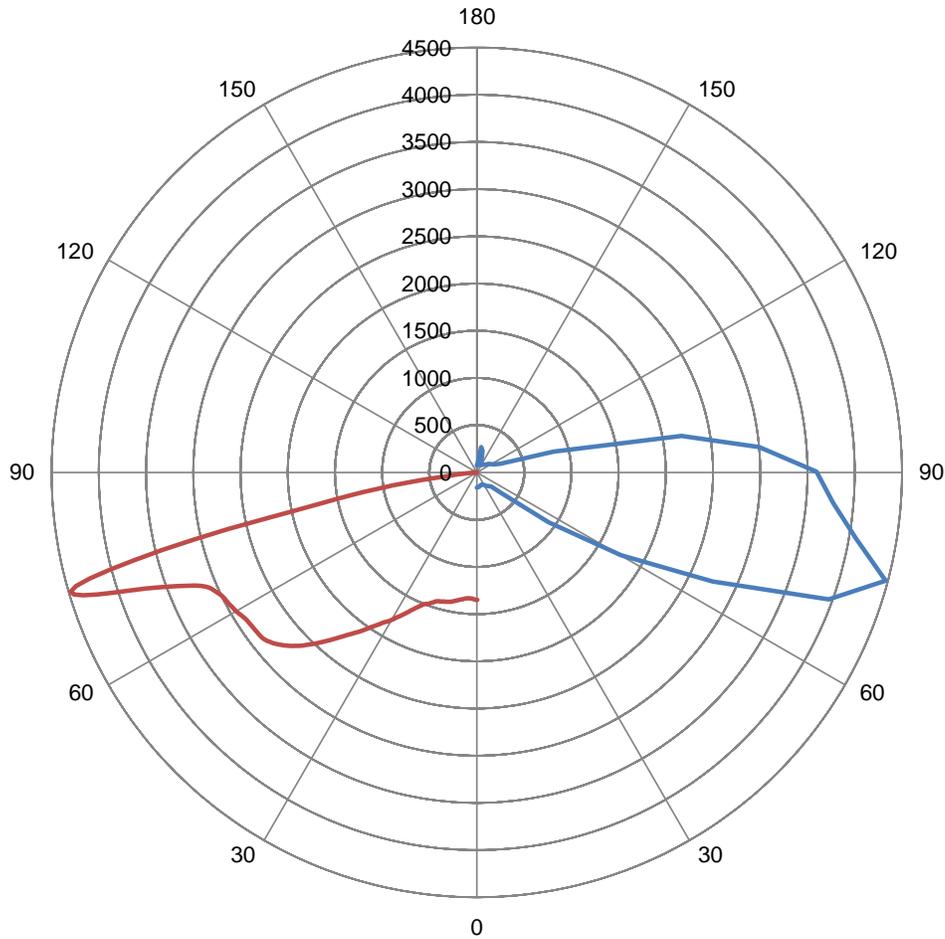
7008 Lumens  
159.2 lm/w  
4477 Candela

#### ISO FootCandle Plot at 20 Feet





**Maximum Plane and Cone Plots of Candela**



Vertical Plane Through

75 ° Lateral

Lateral Cone Through

74 ° Vertical

**Maximum Intensity (Candlepower):**

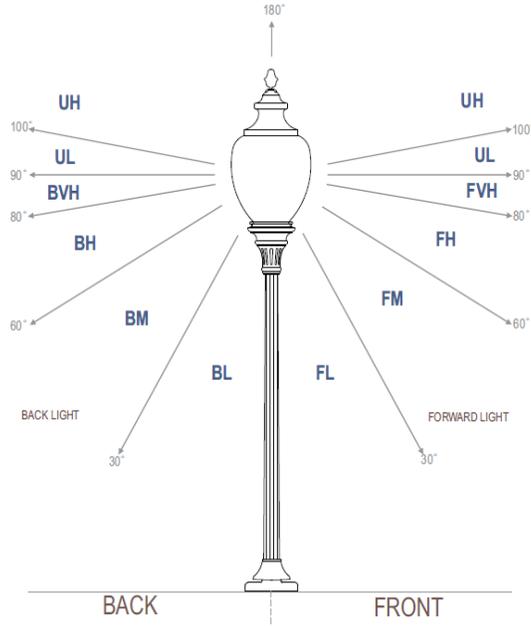
4477 Candela

**Zonal Lumen Summary**

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	32.3	0.5%	60-65	627.8	9.0%	120-125	0.0	0.0%
5-10	98.3	1.4%	65-70	530.3	7.6%	125-130	0.0	0.0%
10-15	166.7	2.4%	70-75	522.7	7.5%	130-135	0.0	0.0%
15-20	232.7	3.3%	75-80	299.9	4.3%	135-140	0.0	0.0%
20-25	300.6	4.3%	80-85	60.2	0.9%	140-145	0.0	0.0%
25-30	376.5	5.4%	85-90	6.7	0.1%	145-150	0.0	0.0%
30-35	453.1	6.5%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	533.2	7.6%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	620.0	8.8%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	699.9	10.0%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	734.0	10.5%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	713.0	10.2%	115-120	0.0	0.0%	175-180	0.0	0.0%



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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	621.4	8.9%
FM	(30-60)	2316.6	33.1%
FH	(60-80)	1336.9	19.1%
FVH	(80-90)	52.0	0.7%
BL	(0-30)	585.9	8.4%
BM	(30-60)	1436.5	20.5%
BH	(60-80)	643.7	9.2%
BVH	(80-90)	14.8	0.2%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		7007.7	100.0%
<b>BUG Rating</b>		<b>B2 U0 G2</b>	