



8165 E Kaiser Blvd. Anaheim, CA 92808  
www.lightlaboratory.com

Report No: L022212407



**Report No:** L022212407

**Issue Date:** 4/22/2022

**Report Prepared For:** Gantom Lighting & Controls  
25060 Avenue Stanford, Suite 115Valencia, CA 91355USA

**Model Number:** GT31 - Gantom iQ - CW (25 DEG)

**Test:** Photometric/Electrical Test

**Standards Used:** Appropriate part or all test guidelines were used for test performed:  
*IESNA LM79: 2019* Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products  
*ANSI NEMA ANSLG C78.377: 2017* Specification of the Chromaticity of Solid State Lighting Products  
*ANSI C82.77-10:2014:* Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

**Description of Sample:** Client submitted the sample. Received in working and undamaged condition. No modifications were necessary.

**Special Test Condition:** Fixture is tested with no special conditions.

**Date of Tests:** 4/15/22

**Seasoning of Sample:** No seasoning was performed in accordance with IESNA LM-79.

**Equipment List**

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Yokogawa Digital Power Meter	WT210	MT-EL06-S4	4/7/23
HP Power Supply	6032A	PS-DC05-S2	--
Fluke Digital Thermometer	52K/J	MT-TP05	3/17/23
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	--
LLI 2M Sphere	2MR97	CD-SN03-S2	--
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

**General Information**

<b>Manufacturer:</b>	Gantom Lighting & Controls
<b>Model Number:</b>	GT31 - Gantom iQ - CW (25 DEG)
<b>Driver Model Number:</b>	N/A

**Photometric & Electrical Test Results**

<b>Total Lumens:</b>	66.14
<b>Efficacy:</b>	24.12
<b>Input Voltage (VDC):</b>	12.00
<b>Input Current (Amp):</b>	0.2286
<b>Input Power (W):</b>	2.74
<b>Input Power Factor:</b>	1.0000
<b>Current ATHD (%):</b>	N/A

**Test Condition**

<b>Ambient Temperature (°C):</b>	25.0
<b>Stabilization Time (Hours):</b>	1:00
<b>Total Operating Time (Hours):</b>	1:35

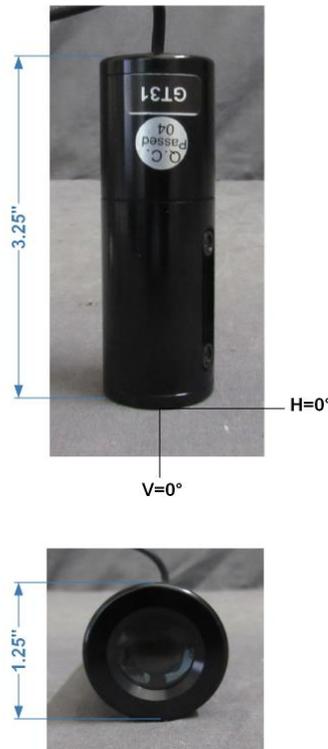


FIG. 1 LUMINAIRE

## Test Methods

### Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

### Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

### Disclaimers:

The results related only to the samples as received and tested. This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government.

Report Prepared by :                     Kunjan Modi                    

Test Report Reviewed by:



Steve Kang  
Quality Assurance

*\*Attached are photometric data reports.*



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# Photometric Test Report

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L022212407.IES**

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L022212407  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUEDATE] 4/20/2022  
[MANUFAC] Gantom Lighting & Controls  
[LUMCAT] GT31 - Gantom iQ - CW (25 DEG)  
[LUMINAIRE] GT31 - Gantom iQ - Cool White - narrow lens setting  
[BALLASTCAT] N/A  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[INPUT] 12VDC  
[TEST PROCEDURE] IESNA:LM-79-08

## CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	66
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	24
Total Luminaire Watts	2.74
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.34
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.06 ft (Diameter)
Luminous Width (90-270)	0.06 ft (Diameter)
Luminous Height	0.00 ft

## LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L022212407.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	65.18	N.A.	98.50
0-30	65.68	N.A.	99.30
0-40	66.14	N.A.	100.00
0-60	66.14	N.A.	100.00
0-80	66.14	N.A.	100.00
0-90	66.14	N.A.	100.00
10-90	21.58	N.A.	32.60
20-40	0.96	N.A.	1.50
20-50	0.96	N.A.	1.50
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	66.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	44.56
10-20	20.62
20-30	0.50
30-40	0.46
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

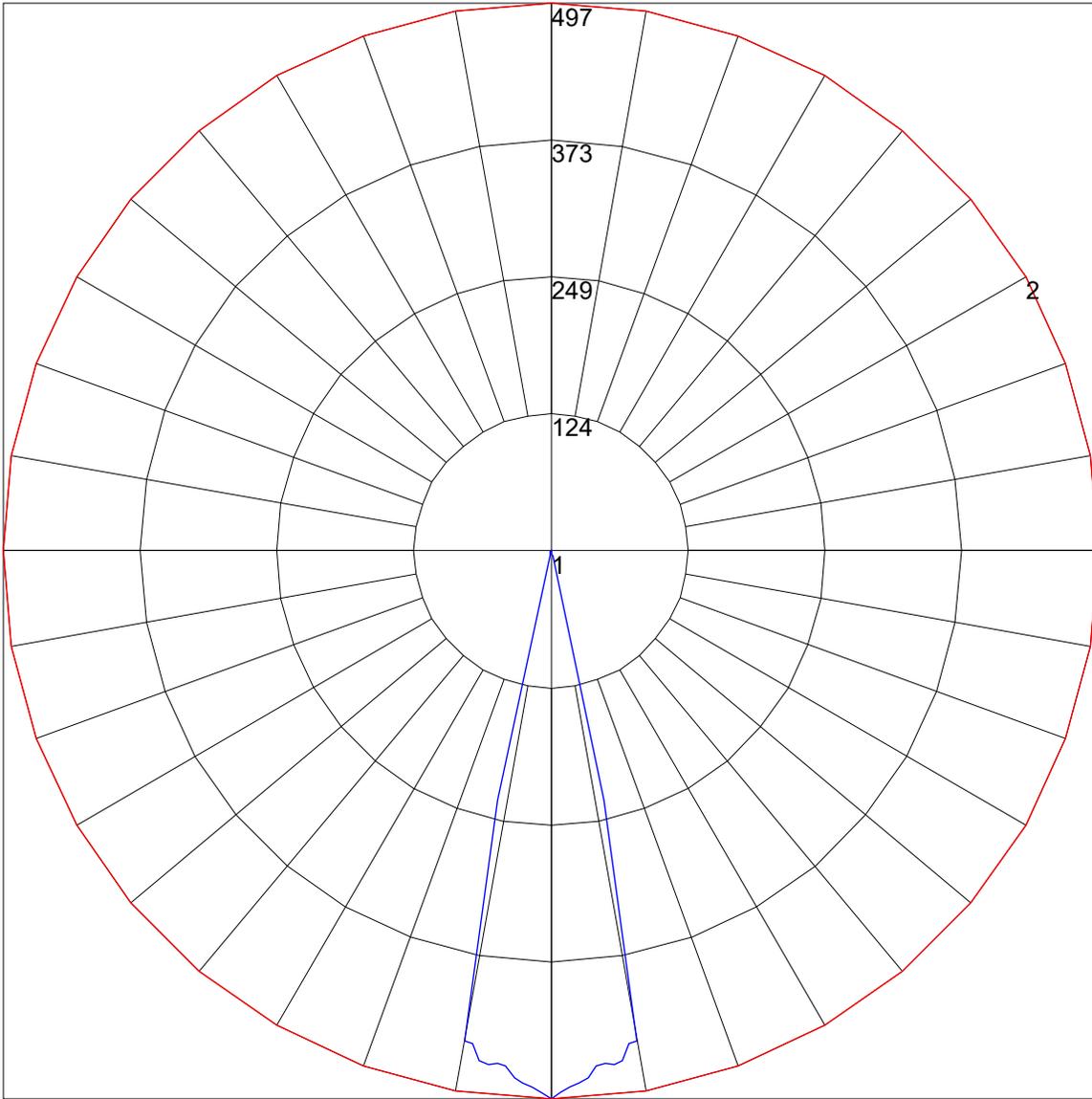
RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	119	119	119	119	117	117	117	117	111	111	111	107	107	107	102	102	102	100
1	116	115	113	112	114	112	111	110	108	107	107	105	104	103	102	101	100	99
2	114	111	108	106	112	109	107	105	106	104	103	103	102	101	101	100	99	98
3	111	108	105	103	110	106	104	102	104	102	100	102	100	99	100	99	97	96
4	109	105	102	100	108	104	101	99	102	100	98	100	99	97	99	97	96	95
5	107	103	100	98	106	102	99	97	101	98	96	99	97	96	98	96	95	94
6	105	101	98	96	104	100	97	95	99	97	95	98	96	94	97	95	94	93
7	104	99	96	94	103	99	96	94	98	95	94	97	95	93	96	94	93	92
8	102	98	95	93	101	97	95	93	96	94	92	96	94	92	95	93	92	91
9	101	96	93	92	100	96	93	91	95	93	91	95	92	91	94	92	91	90
10	100	95	92	90	99	95	92	90	94	92	90	94	91	90	93	91	90	89

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**UGR TABLE - CORRECTED**

Unable to calculate UGR - No candela in offending zones

POLAR GRAPH



Maximum Candela = 497 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)