



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

Report No: L022212438



**Report No:** L022212438

**Issue Date:** 4/28/2022

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

**Model Number:** GP292 - Gantom DMX V2 - RGBW (2 notch diffuser; all LEDs)

**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:** 4/28/22

**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>	GP292 - Gantom DMX V2 - RGBW (2 notch diffuser; all LEDs)
<b>Driver Model Number:</b>	N/A

### Photometric & Electrical Test Results

<b>Total Lumens:</b>	164.00
<b>Efficacy:</b>	38.52
<b>Input Voltage (VDC):</b>	12.00
<b>Input Current (Amp):</b>	0.4420
<b>Input Power (W):</b>	4.26
<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>	0:30
<b>Total Operating Time (Hours):</b>	0:55



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 : L022212438.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022212438

[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)

[ISSUE DATE] 4/21/2022

[MANUFAC] Gantom Lighting & Controls

[LUMCAT] GP292 - Gantom DMX V2 - RGBW (2 notch diffuser; all LEDs)

[LUMINAIRE] GP292 - Gantom DMX V2 - RGBW - all leds on setting A - 2 notch diffuser

[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	164
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	39
Total Luminaire Watts	4.25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.50
Spacing Criterion (90-270)	0.50
Spacing Criterion (Diagonal)	0.54
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.10 ft (Diameter)
Luminous Width (90-270)	0.10 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	17427	17427	17427
55	14323	14323	14323
65	12959	12959	12959
75	10581	10581	10581
85	0	0	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L022212438.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	91.81	N.A.	55.90
0-30	127.98	N.A.	77.90
0-40	144.82	N.A.	88.20
0-60	157.86	N.A.	96.10
0-80	163.93	N.A.	99.80
0-90	164.20	N.A.	100.00
10-90	130.02	N.A.	79.20
20-40	53.01	N.A.	32.30
20-50	60.68	N.A.	37.00
40-70	17.01	N.A.	10.40
60-80	6.07	N.A.	3.70
70-80	2.11	N.A.	1.30
80-90	0.27	N.A.	0.20
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	164.20	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	34.18
10-20	57.62
20-30	36.17
30-40	16.83
40-50	7.68
50-60	5.37
60-70	3.96
70-80	2.11
80-90	0.27
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

**IES INDOOR REPORT**  
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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
0	119	119	119	119	116	116	116	116	111	111	111	107	107	107	102	102	102	100
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73
6	90	82	77	73	89	81	76	72	80	75	72	79	75	71	77	74	71	70
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66
8	83	75	69	66	82	74	69	65	73	68	65	72	68	65	71	67	65	63
9	80	72	66	63	79	71	66	62	70	65	62	69	65	62	68	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	62	59	66	62	59	58

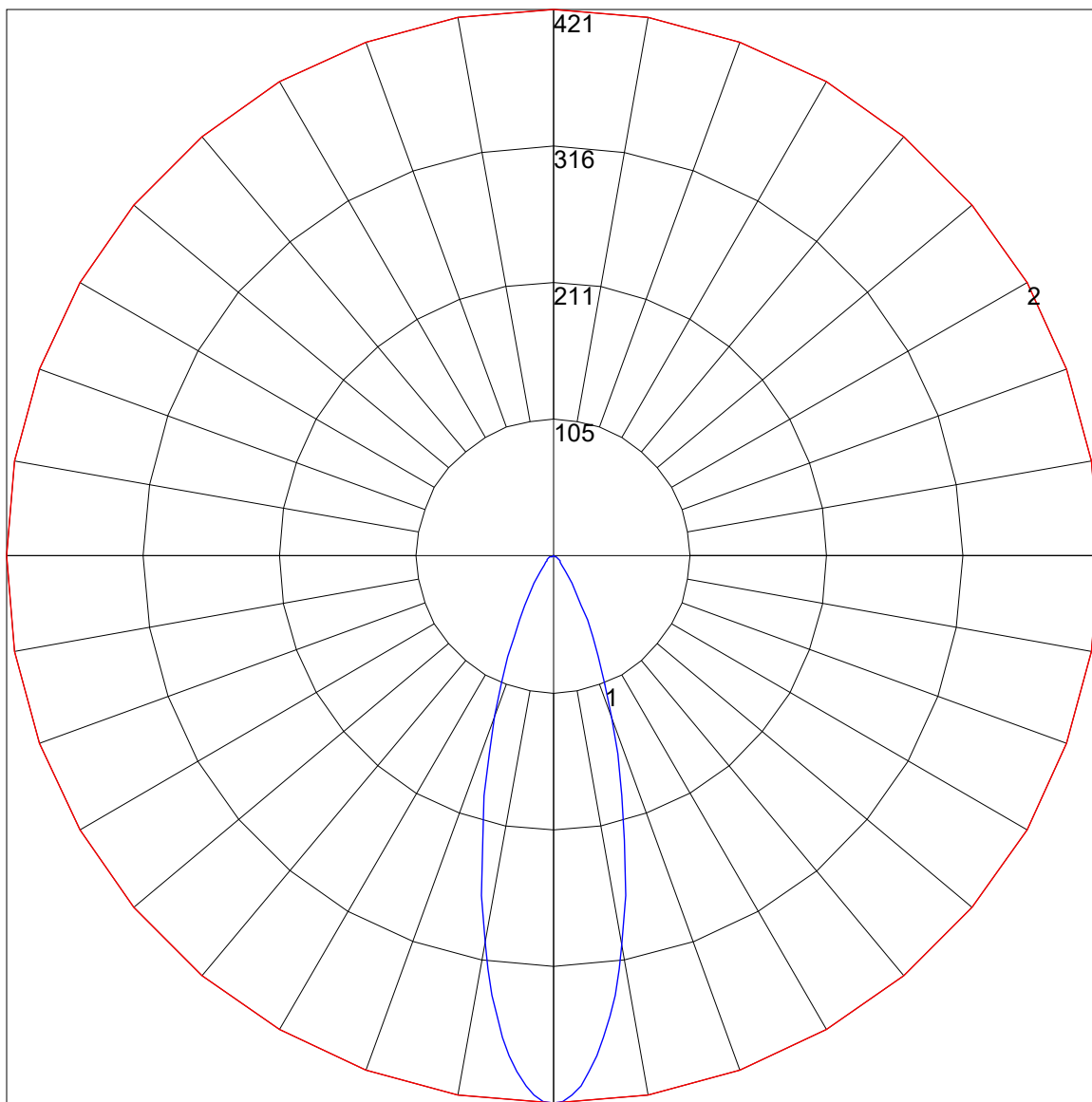
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**UGR TABLE - CORRECTED**

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.7	16.8	16.1	17.1	17.4	15.7	16.8	16.1	17.1	17.4
	3H	17.4	18.3	17.7	18.6	19.0	17.4	18.3	17.7	18.6	19.0
	4H	17.9	18.8	18.3	19.1	19.5	17.9	18.8	18.3	19.1	19.5
	6H	18.2	19.0	18.7	19.4	19.8	18.2	19.0	18.7	19.4	19.8
	8H	18.2	19.0	18.7	19.4	19.8	18.2	19.0	18.7	19.4	19.8
	12H	18.2	18.9	18.6	19.3	19.7	18.2	18.9	18.6	19.3	19.7
4H	2H	16.2	17.1	16.6	17.5	17.8	16.2	17.1	16.6	17.5	17.8
	3H	18.1	18.8	18.5	19.2	19.6	18.1	18.8	18.5	19.2	19.6
	4H	18.7	19.4	19.2	19.8	20.2	18.7	19.4	19.2	19.8	20.2
	6H	19.1	19.7	19.6	20.1	20.6	19.1	19.7	19.6	20.1	20.6
	8H	19.2	19.7	19.6	20.1	20.6	19.2	19.7	19.6	20.1	20.6
	12H	19.1	19.6	19.6	20.0	20.5	19.1	19.6	19.6	20.0	20.5
8H	4H	18.9	19.4	19.4	19.9	20.3	18.9	19.4	19.4	19.9	20.3
	6H	19.4	19.8	19.9	20.3	20.8	19.4	19.8	19.9	20.3	20.8
	8H	19.4	19.8	20.0	20.3	20.8	19.4	19.8	20.0	20.3	20.8
	12H	19.4	19.7	19.9	20.2	20.8	19.4	19.7	19.9	20.2	20.8
12H	4H	18.9	19.3	19.4	19.8	20.3	18.9	19.3	19.4	19.8	20.3
	6H	19.4	19.7	19.9	20.2	20.7	19.4	19.7	19.9	20.2	20.7
	8H	19.5	19.8	20.0	20.3	20.8	19.5	19.8	20.0	20.3	20.8

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 421 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.)