



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

Report No: L022212404



**Report No:** L022212404

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

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

**Model Number:** PR26 - Precision Z Flood - WW

**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>	PR26 - Precision Z Flood - WW
<b>Driver Model Number:</b>	N/A

### Photometric & Electrical Test Results

<b>Total Lumens:</b>	93.39
<b>Efficacy:</b>	72.40
<b>Input Voltage (VDC):</b>	12.00
<b>Input Current (Amp):</b>	0.1080
<b>Input Power (W):</b>	1.29
<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>	0:35
<b>Total Operating Time (Hours):</b>	1:00

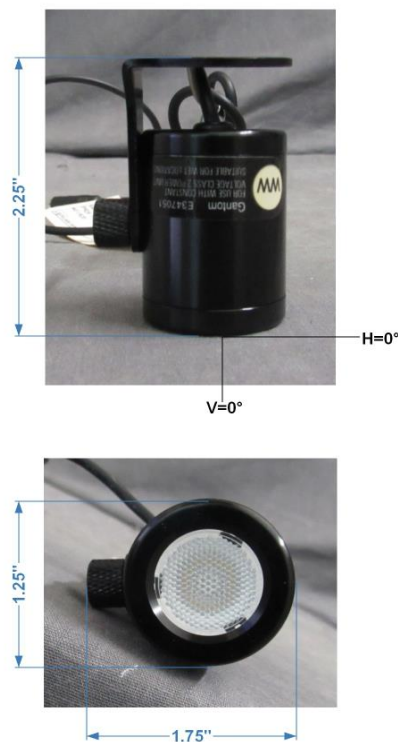


FIG. 1 LUMINAIRE

## 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 : L022212404.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L022212404  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUEDATE] 4/20/2022  
[MANUFAC] Gantom Lighting & Controls  
[LUMCAT] PR26 - Precision Z Flood - WW  
[LUMINAIRE] PR26 - Precision Z Flood - Warm White  
[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	93
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	1.29
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.66
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	40341	40341	40341
55	19893	19893	19893
65	17999	17999	17999
75	14695	14695	14695
85	0	0	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L022212404.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	42.40	N.A.	45.40
0-30	66.22	N.A.	70.90
0-40	78.92	N.A.	84.50
0-60	88.94	N.A.	95.20
0-80	92.85	N.A.	99.40
0-90	93.39	N.A.	100.00
10-90	81.79	N.A.	87.60
20-40	36.51	N.A.	39.10
20-50	43.65	N.A.	46.70
40-70	12.39	N.A.	13.30
60-80	3.92	N.A.	4.20
70-80	1.54	N.A.	1.60
80-90	0.54	N.A.	0.60
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	93.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	11.60
10-20	30.81
20-30	23.82
30-40	12.70
40-50	7.13
50-60	2.88
60-70	2.37
70-80	1.54
80-90	0.54
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**  
**PHOTOMETRIC FILENAME : L022212404.IES**

**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	120	120	120	120	117	117	117	117	112	112	112	107	107	107	102	102	102	100
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79
4	97	89	83	78	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	92	83	77	73	90	82	76	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	68	86	77	72	67	76	71	67	74	70	66	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	71	66	62	69	65	62	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	73	63	57	53	72	62	57	53	62	56	53	61	56	53	60	56	53	51

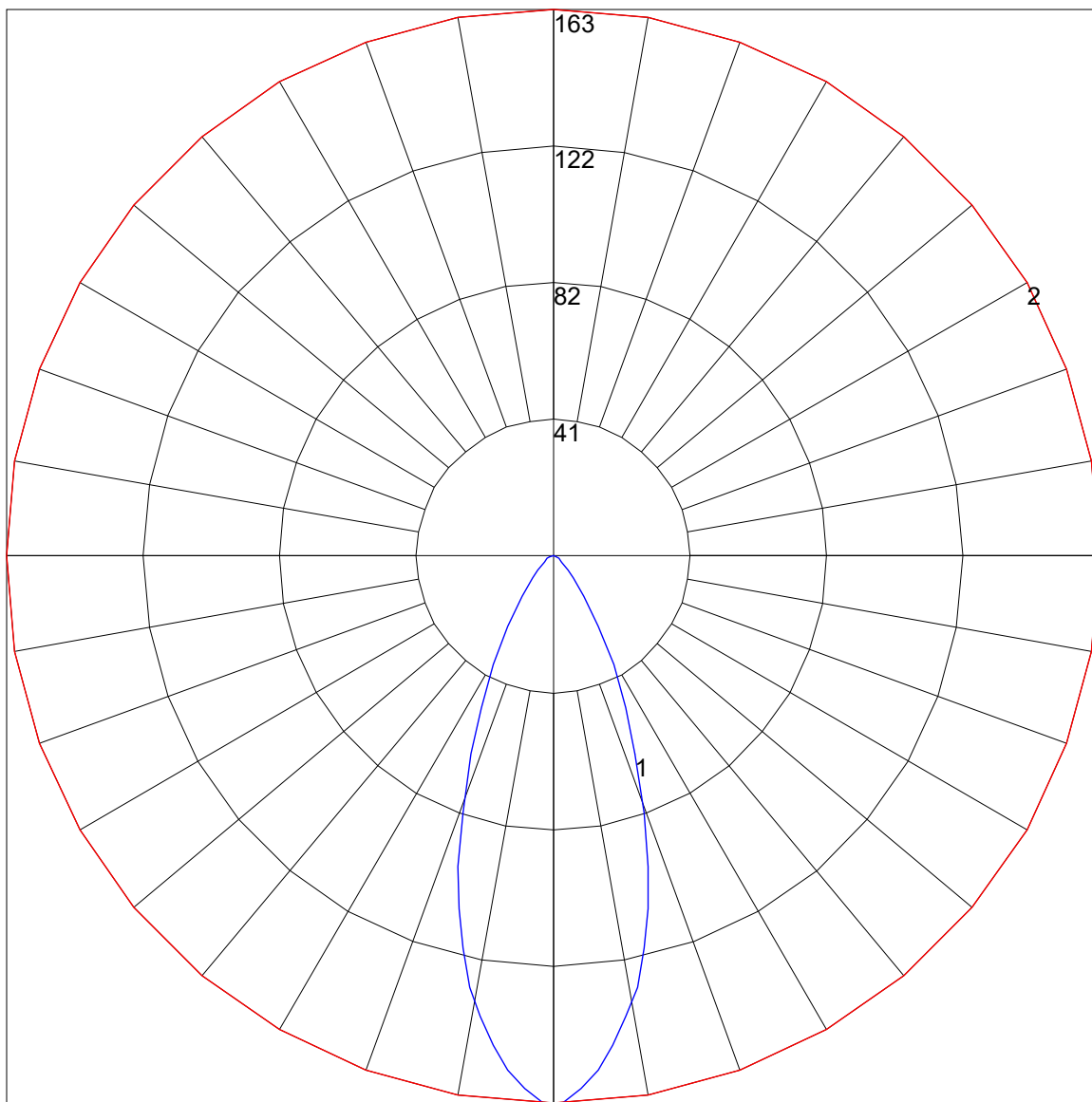
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**PHOTOMETRIC FILENAME : L022212404.IES**

**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	16.3	17.4	16.7	17.7	18.1	16.3	17.4	16.7	17.7	18.1
	3H	18.0	18.9	18.4	19.3	19.6	18.0	18.9	18.4	19.3	19.6
	4H	18.5	19.4	18.9	19.8	20.2	18.5	19.4	18.9	19.8	20.2
	6H	18.8	19.7	19.2	20.0	20.4	18.8	19.7	19.2	20.0	20.4
	8H	18.9	19.6	19.3	20.0	20.4	18.9	19.6	19.3	20.0	20.4
	12H	18.8	19.6	19.3	20.0	20.4	18.8	19.6	19.3	20.0	20.4
4H	2H	16.8	17.7	17.3	18.1	18.5	16.8	17.7	17.3	18.1	18.5
	3H	18.7	19.4	19.1	19.8	20.2	18.7	19.4	19.1	19.8	20.2
	4H	19.3	20.0	19.8	20.4	20.9	19.3	20.0	19.8	20.4	20.9
	6H	19.7	20.3	20.2	20.8	21.2	19.7	20.3	20.2	20.8	21.2
	8H	19.8	20.3	20.2	20.8	21.2	19.8	20.3	20.2	20.8	21.2
	12H	19.7	20.2	20.2	20.7	21.2	19.7	20.2	20.2	20.7	21.2
8H	4H	19.5	20.1	20.0	20.5	21.0	19.5	20.1	20.0	20.5	21.0
	6H	20.0	20.4	20.5	20.9	21.4	20.0	20.4	20.5	20.9	21.4
	8H	20.1	20.4	20.6	21.0	21.5	20.1	20.4	20.6	21.0	21.5
	12H	20.0	20.4	20.6	20.9	21.4	20.0	20.4	20.6	20.9	21.4
12H	4H	19.5	20.0	20.0	20.4	20.9	19.5	20.0	20.0	20.4	20.9
	6H	20.0	20.4	20.5	20.8	21.4	20.0	20.4	20.5	20.8	21.4
	8H	20.1	20.4	20.6	20.9	21.5	20.1	20.4	20.6	20.9	21.5

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 163 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.)