



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

Report No: L082410203



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Issue Date: 8/9/2024

Report Prepared For: RAVENHILL STUDIO
2122 Cypress Ave. Los Angeles, CA 90065

Reference:N/A

Amendment:N/A

Model Number: Pearl 6 ADA

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: 8/8/24

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	4/7/25
HP Power Supply	6032A	PS-DC05-S2	--
Fluke Digital Thermometer	52K/J	MT-TP05	5/24/25
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

Manufacturer:	RAVENHILL STUDIO
Model Number:	Pearl 6 ADA
Driver Model Number:	NONE

Photometric & Electrical Test Results

Total Lumens:	332.00
Efficacy:	57.49
Input Voltage (VAC/60Hz):	120.07
Input Current (Amp):	0.0586
Input Power (W):	5.78
Input Power Factor:	0.8186
Current ATHD (%):	43.5%

Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	1:10

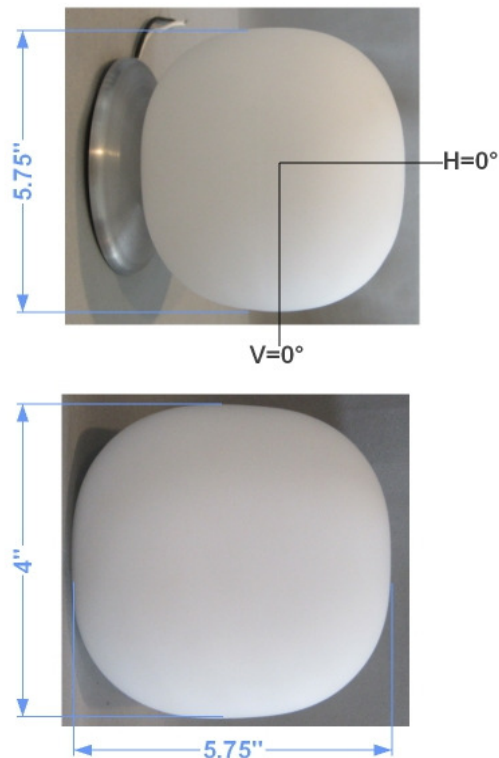


FIG. 1 LUMINAIRE

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.

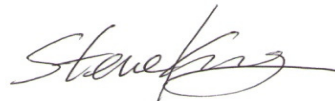
Electrical measurements are measured using the listed equipment.

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 : JG

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 : L082410203.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L082410203
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 8/9/2024
[MANUFAC] RAVENHILL STUDIO
[LUMCAT] Pearl 6 ADA
[LUMINAIRE] G8 7W LED 1800 - 2700K Dim to Warm 90+ CRI 700 Lumens,
[MORE] 7W UL, cUL, Title 24, JA8 Compliant
[BALLASTCAT] NONE
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120VAC
[TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	332
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	5.78
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	0.48 ft
Luminous Height	0.48 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1526	1193	1152
55	1577	1225	1170
65	1677	1259	1226
75	1836	1333	1330
85	2033	1458	1441

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L082410203.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8.87	N.A.	2.70
0-30	20.18	N.A.	6.10
0-40	35.97	N.A.	10.90
0-60	79.54	N.A.	24.00
0-80	133.52	N.A.	40.30
0-90	162.10	N.A.	48.90
10-90	159.92	N.A.	48.20
20-40	27.10	N.A.	8.20
20-50	47.12	N.A.	14.20
40-70	69.71	N.A.	21.00
60-80	53.98	N.A.	16.30
70-80	27.84	N.A.	8.40
80-90	28.58	N.A.	8.60
90-110	57.48	N.A.	17.30
90-120	84.73	N.A.	25.60
90-130	109.45	N.A.	33.00
90-150	147.62	N.A.	44.50
90-180	169.43	N.A.	51.10
110-180	111.95	N.A.	33.80
0-180	331.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.17
10-20	6.70
20-30	11.31
30-40	15.79
40-50	20.02
50-60	23.55
60-70	26.14
70-80	27.84
80-90	28.58
90-100	28.86
100-110	28.61
110-120	27.25
120-130	24.72
130-140	21.20
140-150	16.98
150-160	12.24
160-170	7.22
170-180	2.35

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L082410203.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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	93	87	82	77	85	80	75	71	66	62	59	54	51	48	42	40	38	32
2	83	74	66	59	76	67	61	55	56	50	46	45	41	37	35	32	29	24
3	75	64	55	48	68	58	50	44	48	42	37	38	34	30	29	26	23	19
4	68	55	46	39	62	51	42	36	42	35	30	33	28	24	26	22	19	15
5	62	49	40	33	56	45	36	30	37	30	25	30	24	21	23	19	16	12
6	57	43	34	28	52	40	32	26	33	26	22	26	21	17	20	16	13	10
7	52	39	30	24	48	36	28	22	30	23	19	24	19	15	18	15	12	9
8	49	35	27	21	44	32	25	19	27	21	16	22	17	13	17	13	10	8
9	45	32	24	18	41	29	22	17	24	18	14	20	15	12	15	12	9	7
10	42	29	21	16	38	27	20	15	22	17	13	18	14	10	14	11	8	6

IES INDOOR REPORT
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UGR TABLE - CORRECTED

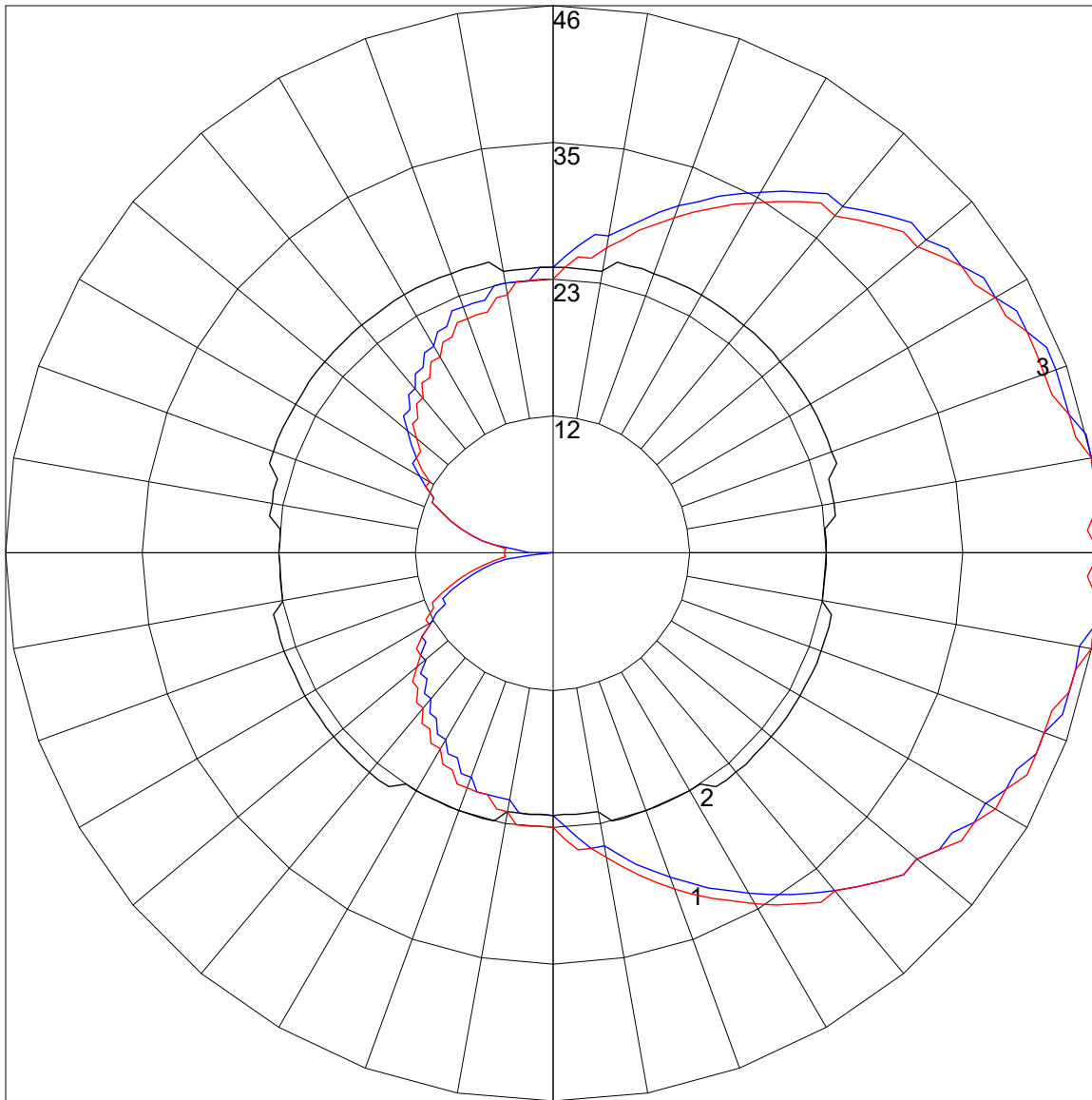
Reflectances

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	11.3	12.3	12.3	13.3	14.6	7.5	8.5	8.4	9.5	10.7
	3H	14.5	15.4	15.5	16.4	17.7	10.2	11.1	11.1	12.1	13.4
	4H	16.1	17.0	17.1	18.0	19.3	11.5	12.4	12.5	13.4	14.7
	6H	17.7	18.5	18.7	19.5	20.8	12.8	13.6	13.8	14.6	16.0
	8H	18.5	19.2	19.4	20.2	21.5	13.5	14.3	14.5	15.3	16.6
	12H	19.2	20.0	20.2	21.0	22.3	14.1	14.8	15.1	15.8	17.2
4H	2H	11.9	12.7	12.8	13.7	15.0	8.6	9.5	9.6	10.4	11.7
	3H	15.3	16.1	16.3	17.1	18.4	11.5	12.2	12.4	13.2	14.5
	4H	17.1	17.8	18.1	18.8	20.1	12.9	13.6	13.9	14.6	16.0
	6H	18.8	19.5	19.8	20.5	21.8	14.4	15.0	15.4	16.0	17.4
	8H	19.7	20.3	20.7	21.3	22.7	15.1	15.7	16.1	16.7	18.1
	12H	20.6	21.1	21.6	22.2	23.5	15.8	16.3	16.8	17.4	18.7
8H	4H	17.4	18.0	18.4	19.0	20.4	13.7	14.3	14.7	15.3	16.7
	6H	19.4	19.9	20.4	21.0	22.3	15.4	15.9	16.4	17.0	18.3
	8H	20.5	20.9	21.5	22.0	23.3	16.2	16.7	17.3	17.7	19.1
	12H	21.6	22.0	22.6	23.0	24.4	17.1	17.5	18.1	18.5	19.9
12H	4H	17.5	18.0	18.5	19.1	20.4	13.9	14.5	14.9	15.5	16.8
	6H	19.6	20.0	20.6	21.0	22.4	15.7	16.1	16.7	17.2	18.6
	8H	20.7	21.1	21.7	22.1	23.5	16.6	17.0	17.7	18.1	19.5

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 46 Located At Horizontal Angle = 0, Vertical Angle = 82.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (82.5) (Through Max. Cd.)