



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

Report No: L052210201



**Report No:** L052210201

**Issue Date:** 5/17/2022

**Report Prepared For:** Boyd Lighting Company  
1455 Vapor Trail, Colorado Springs, CO 80916

**Model Number:** C-10737

**Test:** Photometric/Colorimetric/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:** 5/16/22

**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>	Boyd Lighting Company
<b>Model Number:</b>	C-10737
<b>Driver Model Number:</b>	OSRAM OT-25

**Test Summary**

<b>Total Lumens:</b>	642.00
<b>Efficacy:</b>	43.61
<b>Color Redering Index:</b>	92.7
<b>Correlated Color Temperature:</b>	2407
<b>Input Voltage (VAC/60Hz):</b>	120.05
<b>Input Current (Amp):</b>	0.1232
<b>Input Power (W):</b>	14.72
<b>Input Power Factor:</b>	0.9953
<b>Current ATHD (%):</b>	5.5%

**Test Condition**

<b>Ambient Temperature (°C):</b>	25.0
<b>Stabilization Time (Hours):</b>	0:40
<b>Total Operating Time (Hours):</b>	1:25

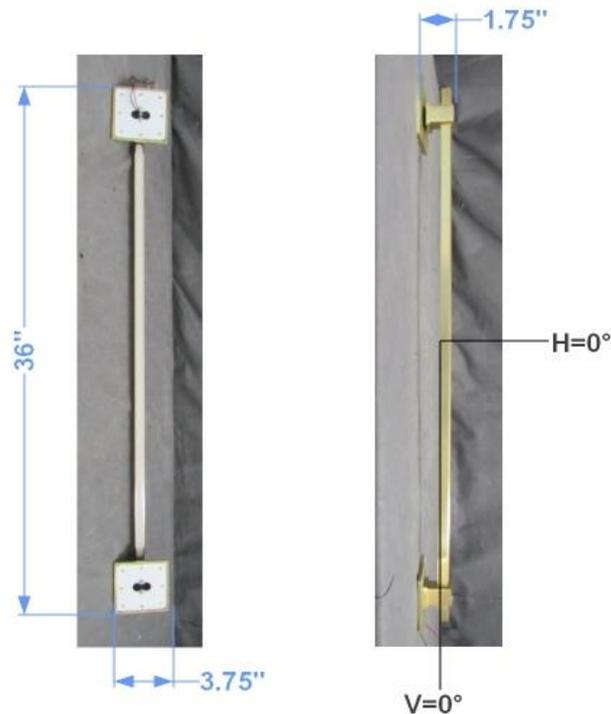
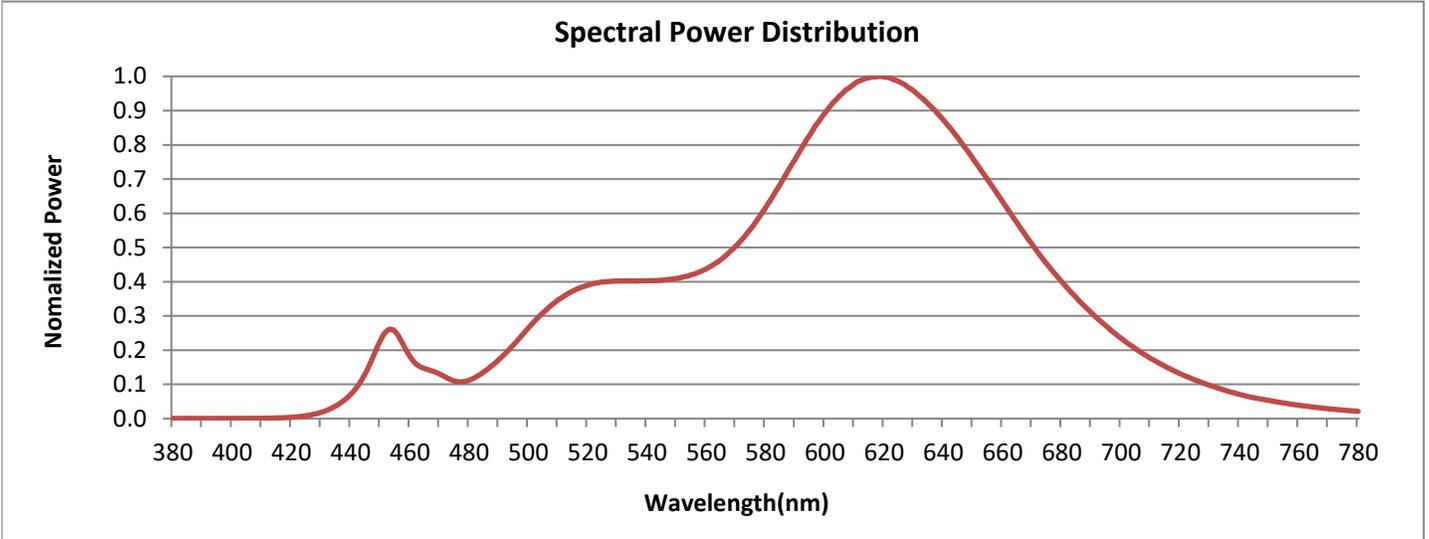


FIG. 1 LUMINAIRE

**Colorimetry Test Results**

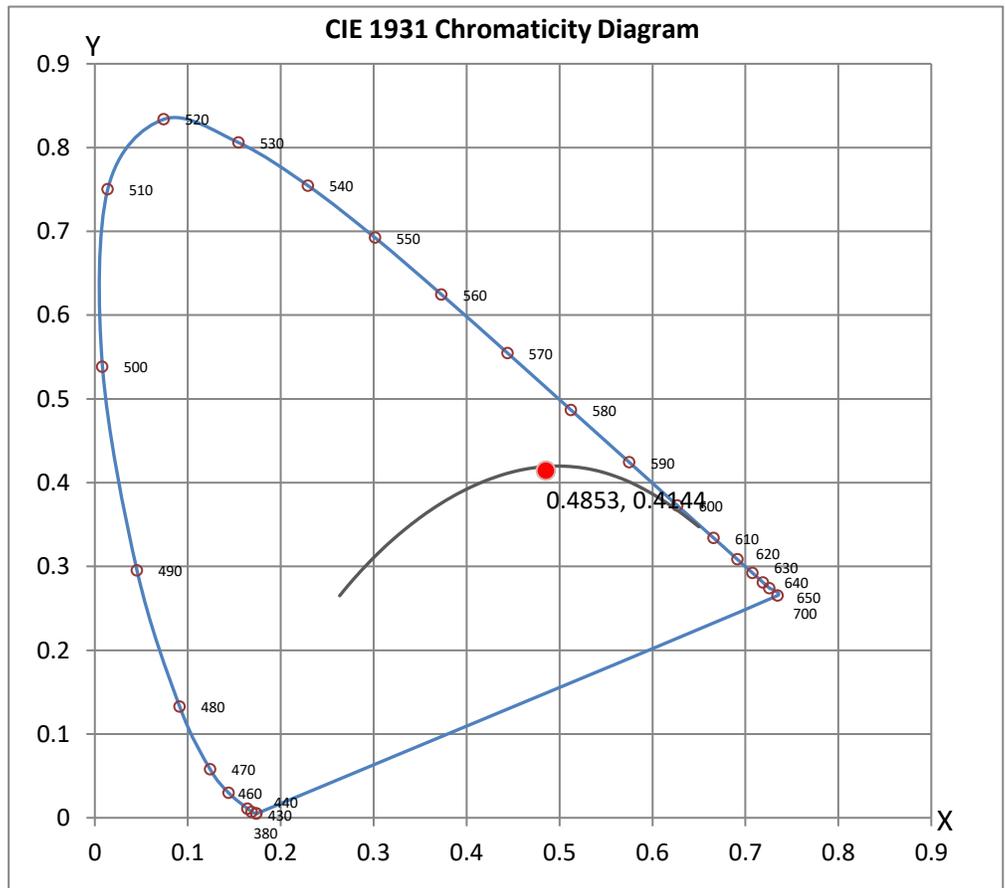


**CRI & CCT**

x	0.4853
y	0.4144
u'	0.2772
v'	0.5326
CRI	92.70
CCT	2407
Duv	-0.00006

**R Values**

R1	96.35
R2	99.50
R3	94.74
R4	99.23
R5	99.32
R6	91.28
R7	86.87
R8	74.67
R9	48.90
R10	98.04
R11	92.15
R12	90.33
R13	98.27
R14	97.94
R15	86.67



## 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 : L052210201.IES**

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L052210201  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUEDATE] 5/16/2022  
[MANUFAC] Boyd Lighting Company  
[LUMCAT] C-10737  
[LUMINAIRE] Axis Sconce 36  
[BALLASTCAT] OSRAM OT-25  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[INPUT] 120VAC  
[TEST PROCEDURE] IESNA:LM-79-08  
[\_ CONVERT] Luminaire test position and photometric web converted from original test data

## CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	642
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	14.72
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	Vertical Rectangle
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	2.42 ft
Luminous Height	0.04 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 : L052210201.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	5.99	N.A.	0.90
0-30	19.66	N.A.	3.10
0-40	44.64	N.A.	7.00
0-60	132.62	N.A.	20.70
0-80	262.70	N.A.	40.90
0-90	335.05	N.A.	52.20
10-90	334.28	N.A.	52.10
20-40	38.65	N.A.	6.00
20-50	76.33	N.A.	11.90
40-70	149.18	N.A.	23.20
60-80	130.08	N.A.	20.30
70-80	68.88	N.A.	10.70
80-90	72.36	N.A.	11.30
90-110	137.67	N.A.	21.40
90-120	194.81	N.A.	30.30
90-130	240.24	N.A.	37.40
90-150	293.13	N.A.	45.70
90-180	306.83	N.A.	47.80
110-180	169.16	N.A.	26.40
0-180	641.88	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.77
10-20	5.22
20-30	13.66
30-40	24.98
40-50	37.68
50-60	50.29
60-70	61.20
70-80	68.88
80-90	72.36
90-100	71.42
100-110	66.26
110-120	57.13
120-130	45.43
130-140	32.57
140-150	20.32
150-160	10.11
160-170	3.24
170-180	0.36

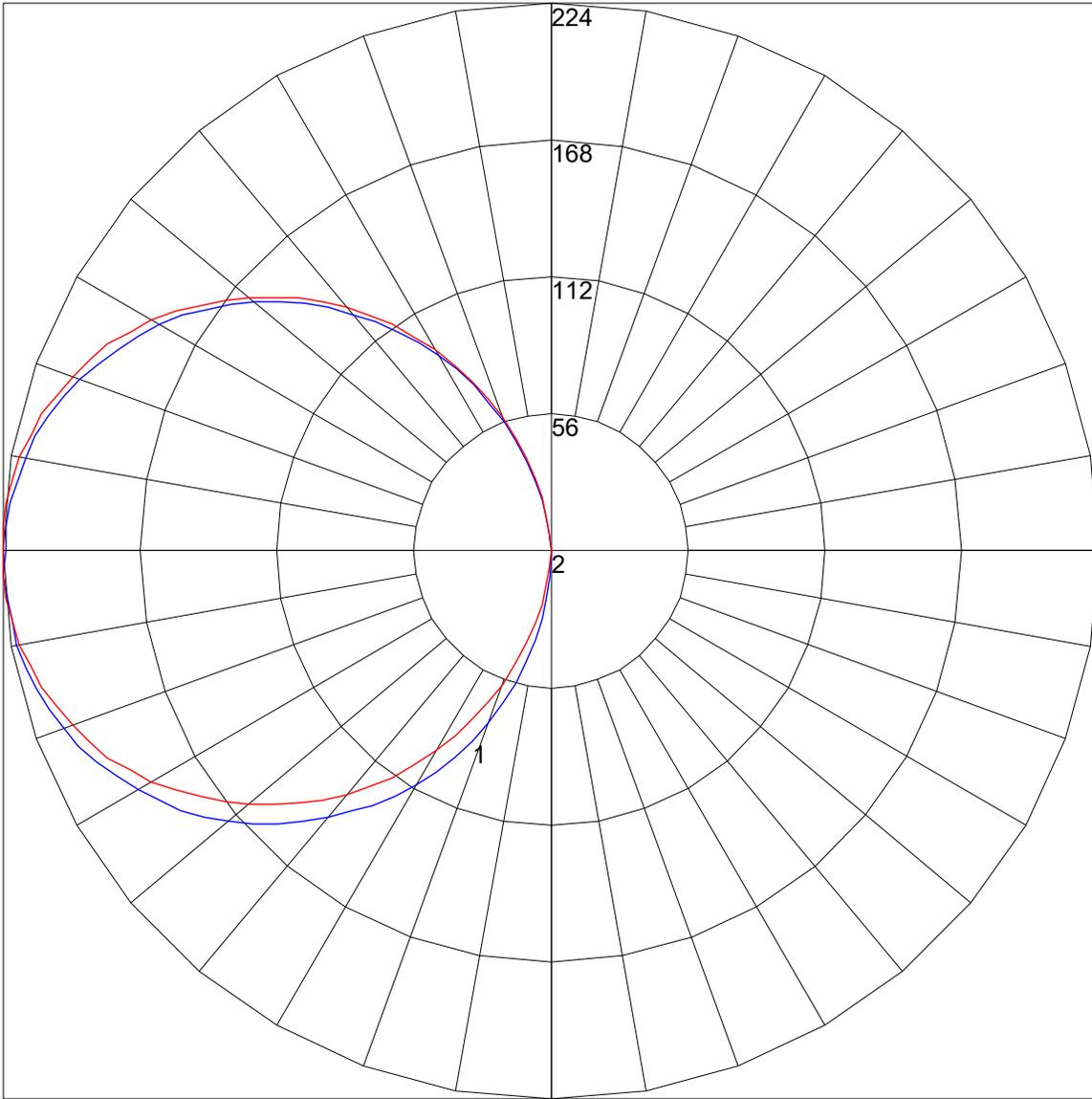
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	92	86	80	74	85	79	73	68	65	61	57	53	50	47	42	40	38	32
2	82	72	63	56	75	65	58	51	54	48	43	44	39	35	34	30	27	22
3	73	61	51	44	67	56	47	40	46	39	34	37	31	27	28	24	21	16
4	66	53	43	35	60	48	39	33	40	33	27	32	26	22	24	20	16	12
5	60	46	36	29	55	42	33	27	35	28	22	28	22	18	21	17	13	10
6	55	41	31	25	50	37	29	23	31	24	19	24	19	15	19	14	11	8
7	51	36	27	21	46	33	25	19	27	21	16	22	17	12	17	12	9	6
8	47	33	24	18	42	30	22	16	25	18	14	20	15	11	15	11	8	5
9	43	30	21	16	39	27	20	14	22	16	12	18	13	9	14	10	7	4
10	40	27	19	14	37	25	17	13	21	15	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 224 Located At Horizontal Angle = 175, Vertical Angle = 87.5  
# 1 - Vertical Plane Through Horizontal Angles (175 - 355) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (87.5) (Through Max. Cd.)