

Test Report: L10137601

Model Number: cuepix blinder

Report Prepared For: ELATION LIGHTING

6122 S. EASTERN AVE, COMMERCE, CA 90040

Test: Electrical and Photometric tests as required by the IESNA test standards.

Standards Used: Appropriate part or all test guidelines were used for test performed: *IESNA LM79: 2008* Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products *ANSI NEMA ANSLG C78.377: 2008* Specification of the Chromaticity of Solid State Lighting Products *ANSI C82.77:2002:* Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

Description of Sample: Client submitted the sample. Fixture catalog number is cuepix blinder .

Received in working and undamaged condition. No modifications were

necessary.

Testing Condition: Fixture is tested with no special conditions.

Sample Arrival Date: 11/5/13

Date of Tests: 11/6/13 - 11/6/13

Seasoning of Sample SSL: 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-S1	01/04/14
Xitron Power Analysis System	2503AH	MT-EL01	01/09/14
Fluke Digital Thermometer	52k/J	MT-TP02-GC	01/04/14
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

^{*}All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.



Test #: L10137601 Date: 11/7/2013 NVLAP LAB CODE 200927-0

LM-79 Test Summary	
Manufacturer:	ELATION LIGHTING
Model Number:	cuepix blinder
LAMPCAT:	N/A
Driver Model Number:	CUSTOM DRIVER
Total Lumens:	4537.38
Input Voltage (VAC/60Hz):	120.00
Input Current (Amp):	1.80
Input Power (W):	214.41
Input Power Factor:	0.99
Total Harmonic Distortion @ 120V(%	6)9%
Total Harmonic Distortion @ 277V(%	6)N/A
Efficacy:	21
Color Rendering Index (CRI):	92
Correlated Color Temperature (K):	2883
Chromaticity Coordinate x:	0.4411
Chromaticity Coordinate y:	0.3982
Ambient Temperature (°F):	77.0
Stabilization Time (Hours):	1:50
Total Operating Time (Hours):	2:50
Off State Power(W):	0.00

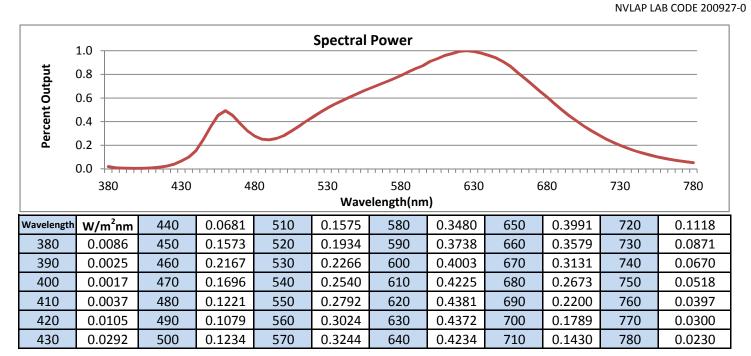


FIG. 1 LUMINAIRE

^{*}All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.



8165 E Kaiser Blvd. Anaheim, CA 92808 p. 714.282.2270 f. 714.676.5558 Test #: L10137601 Date: 11/7/2013

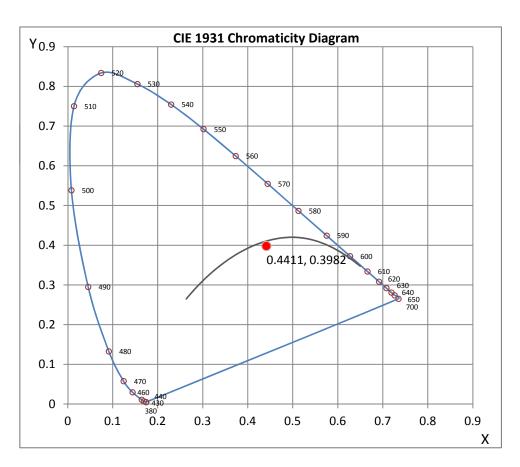


CRI	&	CC	T

х	0.4411
у	0.3982
u'	0.2559
v'	0.5197
CRI	92.20
ССТ	2883
Duv	-0.00287

R Values

It values	
R1	92.75
R2	97.10
R3	97.57
R4	89.66
R5	91.40
R6	94.74
R7	91.49
R8	83.20
R9	65.03
R10	90.58
R11	87.82
R12	79.15
R13	94.15
R14	98.06



^{*}All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.



Test #: L10137601
Date: 11/7/2013

NVLAP LAB CODE 200927-0

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:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

Report Prepared by :	Randy Chau	

Test Report Released by: Test Report Reviewed by:

Jeff Ahn

Engineering Manager

MM

Steve Kang

Quality Assurance

^{*}Attached are photometric data reports. Total number of pages: 8



8165 E. Kaiser Blvd. Anaheim, CA 92808

p. 714.282.2270 f. 714.676.5558

Photometric Test Report

IES FLOOD REPORT

PHOTOMETRIC FILENAME: L10137601.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L10137601

[TESTLAB] LIGHT LABORATORY, INC.

[ISSUEDATE] 11/7/2013

[MANUFAC] ELATION LIGHTING

[LUMCAT] cuepix blinder

[LUMINAIRE] 8-1/2"L. X 18-1/4"W. X 7-1/8"H. LED LUMINAIRE

[MORE] ALUMINUM REFLECTOR WITH CLEAR LENS

[BALLASTCAT] CUSTOM DRIVER [BALLAST] INPUT: 120VAC, 60Hz.

[LAMPPOSITION] 0,0 [LAMPCAT] N/A

[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND

[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.

[_INPUT] 120VAC, 214.41W

[_TEST PROCEDURE] IESNA:LM-79-08

Note: Candela values converted from Type-C to Type-B

CHARACTERISTICS

NEMA Type 5 H x 5 V
Maximum Candela 5716
Maximum Candela Angle 0H 0V
Horizontal Beam Angle (50%) 42.6
Vertical Beam Angle (50%) 41.6
Horizontal Field Angle (10%) 91.2
Vertical Field Angle (10%) 91.3

Lumens Per Lamp N.A. (absolute)
Total Lamp Lumens N.A. (absolute)

Beam Lumens 1641 Beam Efficiency N.A. Field Lumens 4172 Field Efficiency N.A. Spill Lumens 366 Luminaire Lumens 4537 **Total Efficiency** N.A. **Total Luminaire Watts** 214.41 **Ballast Factor** 1.00

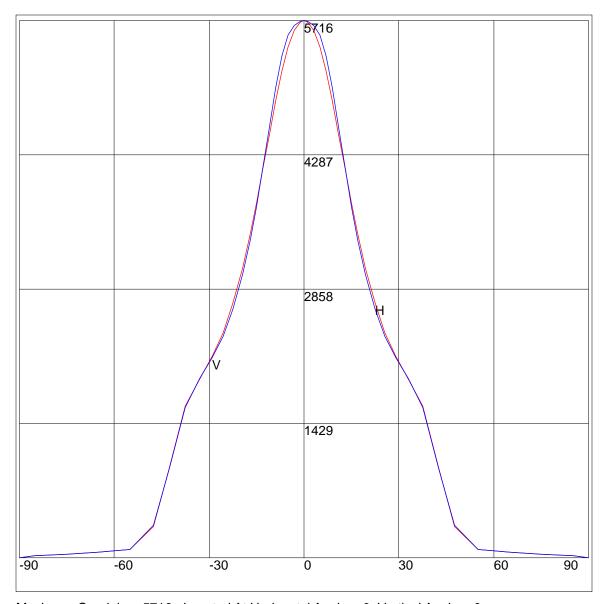
IES FLOOD REPORT

PHOTOMETRIC FILENAME: L10137601.IES

AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
DEG. 90 85 75 65 47.5 42.5 17 15 11 97 5 3 1 0 -1 -3 -5 -7 -9 -11 -13 -5 -25.5 -25 -25 -25 -47.5 -55 -65	HOR. 0 26 38 61 93 333 959 1613 1901 2149 2398 2711 3081 3440 3763 4126 4500 4860 5181 5433 5610 5702 5716 5702 5610 5433 5181 4860 4500 4126 3763 3440 3081 2711 2398 2149 1901 1613 959 333 93 61	DEG. 90 85 75 65 57 42.5 33 29 25.5 17 15 11 9 7 5 3 1 0 -1 -3 -5 -7 -9 -11 -13 -15 -17 -19.5 -25.5 -47.5 -55 -65	VERT. 0 26 39 60 91 353 950 1599 1909 2133 2361 2648 3017 3377 3723 4134 4579 5003 5342 5558 5666 5708 5666 5708 5666 5558 5342 5003 4579 4134 3723 3377 3017 2648 2361 2133 1909 1599 950 353 91 60
-75 -85 -90	38 26 0	-75 -85 -90	39 26 0

AXIAL CANDELA DISPLAY



Maximum Candela = 5716 Located At Horizontal Angle = 0, Vertical Angle = 0

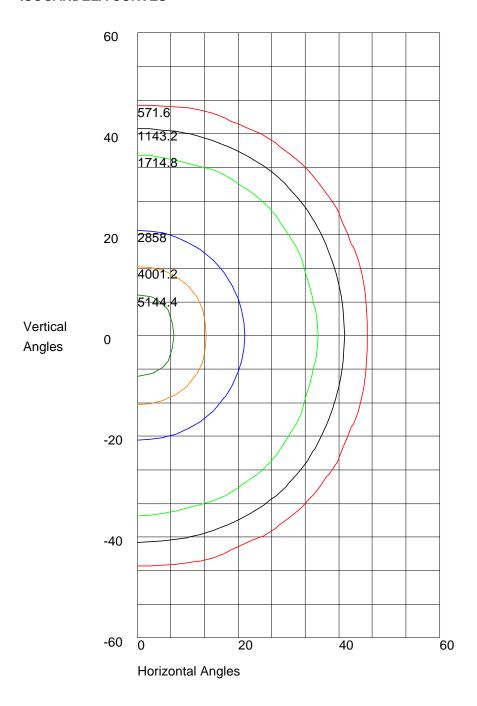
H - Horizontal Axial Candela

V - Vertical Axial Candela

IES FLOOD REPORT

PHOTOMETRIC FILENAME: L10137601.IES

ISOCANDELA CURVES



Maximum Candela = 5716 Located At Horizontal Angle = 0, Vertical Angle = 0 50% Maximum Candela = 2858 10% Maximum Candela = 571.6