

LIGHT LABORATORY, INC.

8165 E Kaiser Blvd. Anaheim, CA 92808

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Test #: L11110126

Date: 12/6/2011

Test Report

Report Prepared For:
American Illumination, Inc.
3767 Overland Avenue, Suite 109
Los Angeles, CA 90034

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

Standards Used: Appropriate part or all test guidelines were used for test performed:

IESNA LM-79: 2008

ANSI NEMA ANSLG C78.377: 2008 Specification of the Chromaticity of Solid State Lighting Products.

Description of Sample: Test specified from client. No driver supplied.

Dates sample received: 11/28/11

Dates of Tests: 11/29/11 – 12/6/11

Test report Released by:
Joseph Shin
Engineering Manager.

Attached are photometric data reports.

Some graphics were created with Photo tool and/or Photometrics Plus software.

*Test data documentation on file and available upon request.

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

REV.	LOG NUMBER	REVISION DESCRIPTION	REVISION BY	CHECKED BY	APPROVED BY	DATE
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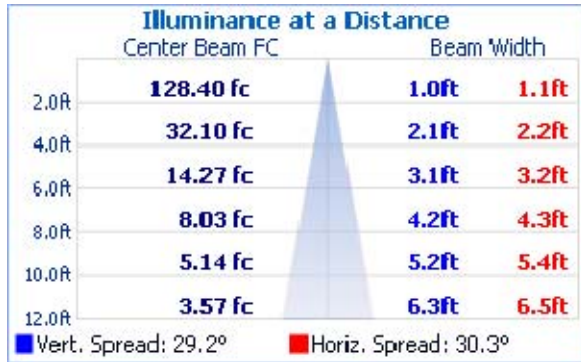
Date: 12/6/2011

Summary:

Manufacturer:	AMERICAN ILLUMINATION, INC.
Model Number:	LBTZ-5821

Total Lumens:	141.78
Input Voltage (VDC):	12.00
Input Power (W):	3.47
Input Current (Amp):	0.29
Input Power Factor:	N/A
Efficacy:	40.87
Color Rendering Index (CRI):	N/A
Correlated Color Temperature (K):	1523
Chromaticity Ordinate x:	0.5926
Chromaticity Ordinate y:	0.4055

Illuminance – Cone of Light:



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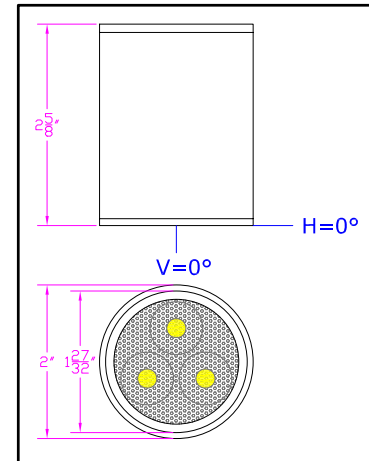
IES INDOOR REPORT
PHOTOMETRIC FILENAME : L11110126.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L11110126
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 12/6/2011
 [MANUFAC] AMERICAN ILLUMINATION, INC.
 [LUMCAT] LBTZ-5821
 [LUMINAIRE] 2"DIA. X 2-5/8"H. LIGHT BOLTZ
 [MORE] AMBER LED WITH 30 DEG. OPTIC
 [LAMPPOSITION] 0,0
 [LAMPCAT] AMBER LED
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [_POWER SUPPLY] 12VDC CONSTANT VOLTAGE SOURCE
 [INPUT] 12VDC, 3.469W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	142
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	3.469
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.46
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.15 ft (Diameter)
Luminous Width (90-270)	0.15 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	2629	2629	2629
55	1307	1307	1307
65	142	142	142
75	0	0	0
85	0	0	0

IES INDOOR REPORT
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CANDELA TABULATION

	<u>0</u>
0	513.617
2	514.967
4	516.213
6	515.486
8	506.659
10	468.444
12	396.999
14	309.354
16	220.047
18	143.514
20	86.399
22	53.792
24	34.165
26	22.638
28	15.992
30	11.112
32	7.892
34	6.542
36	5.193
38	4.258
40	3.531
42	3.531
44	3.531
46	2.908
48	3.012
50	2.493
52	2.285
54	1.350
56	1.247
58	1.246
60	0.623
62	0.623
64	0.208
66	0.000
68	0.104
70	0.104
72	0.104
74	0.000
76	0.000
78	0.000
80	0.000
82	0.000
84	0.000
86	0.000
88	0.000
90	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L11110126.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	133.83	N.A.	94.40
0-40	137.66	N.A.	97.10
0-60	141.49	N.A.	99.80
0-90	141.78	N.A.	100.00
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
0-180	141.78	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.13
10-20	70.42
20-30	15.27
30-40	3.83
40-50	2.47
50-60	1.36
60-70	0.25
70-80	0.03
80-90	0.00
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

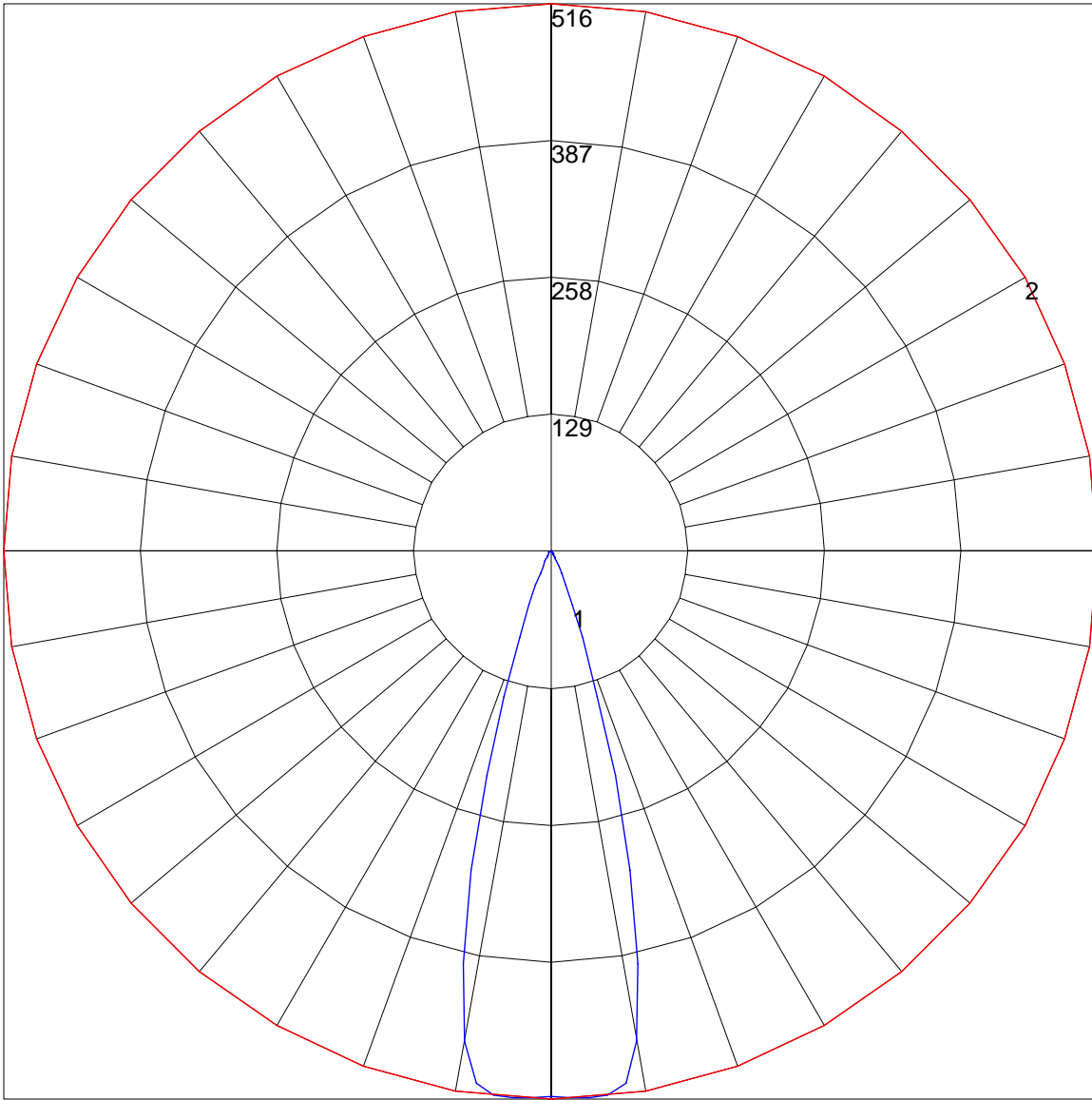
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	109	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	102	109	106	103	101	103	100	99	100	98	97	97	96	95	93
3	107	103	99	96	96	106	101	98	96	99	96	94	97	95	93	95	93	91	90
4	104	99	95	92	92	103	98	94	91	96	93	90	94	91	89	92	90	88	87
5	101	95	91	88	88	100	94	90	88	93	89	87	91	88	86	90	87	85	84
6	98	92	88	85	85	97	91	87	84	90	86	84	89	86	83	87	85	83	82
7	95	89	85	82	82	94	88	84	82	87	84	81	86	83	81	85	83	81	79
8	93	86	82	79	79	92	86	82	79	85	81	79	84	81	79	83	80	78	77
9	90	84	80	77	77	90	83	79	77	83	79	77	82	79	76	81	78	76	75
10	88	81	77	75	75	87	81	77	75	80	77	75	80	77	74	79	76	74	73

POLAR GRAPH



Maximum Candela = 516.213 Located At Horizontal Angle = 0, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)