

LIGHT LABORATORY, INC.

8165 E Kaiser Blvd. Anaheim, CA 92808

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Test #: L11110112

Date: 11/11/2011

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 specimens from client. No driver supplied.

Dates sample received: 11/3/11

Dates of Tests: 11/4/11 – 11/11/11

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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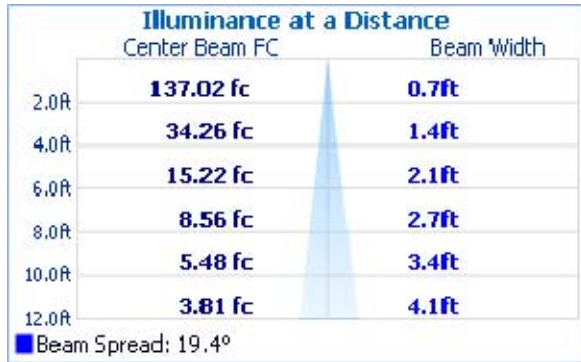
Date: 11/11/2011

Summary:

Manufacturer:	AMERICAN ILLUMINATION, INC.
Model Number:	LP-3823-40

Total Lumens:	71.52
Input Voltage (VDC):	12.00
Input Power (W):	2.03
Input Current (Amp):	0.17
Input Power Factor:	N/A
Efficacy:	35.18
Color Rendering Index (CRI):	N/A
Correlated Color Temperature (K):	1350
Chromaticity Ordinate x:	0.6110
Chromaticity Ordinate y:	0.3870

Illuminance – Cone of Light:



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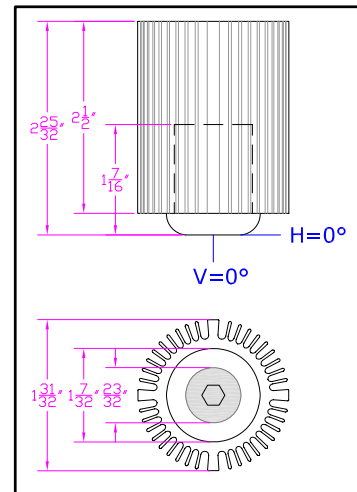
IES INDOOR REPORT
PHOTOMETRIC FILENAME : L11110112.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L11110112
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 11/11/2011
 [MANUFAC] AMERICAN ILLUMINATION, INC.
 [LUMCAT] LP-3823-40
 [LUMINAIRE] 1-7/32"DIA. X 1-7/16"H. 3 SERIES LIGHT PLUGZ
 [MORE] IN THE 1-31/32"DIA. X 2-1/2" HEAT SINK
 [MORE] AMBER LED WITH 40 DEG. OPTIC
 [LAMP POSITION] 0,0
 [LAMP CAT] 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, 2.033W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	72
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	2.033
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.34
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.34
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.60 ft (Diameter)
Luminous Width (90-270)	0.60 ft (Diameter)
Luminous Height	0.00 ft



IES INDOOR REPORT
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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8	8	8
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L11110112.IES

CANDELA TABULATION

	<u>0</u>
0	548.093
2	535.632
4	501.571
6	437.914
8	354.319
10	261.274
12	176.536
14	112.153
16	68.642
18	42.784
20	26.896
22	17.654
24	11.631
26	7.996
28	5.296
30	3.739
32	2.285
34	1.039
36	0.208
38	0.104
40	0.000
42	0.104
44	0.312
46	0.000
48	0.104
50	0.104
52	0.208
54	0.000
56	0.000
58	0.104
60	0.104
62	0.104
64	0.000
66	0.000
68	0.000
70	0.000
72	0.000
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 : L11110112.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	70.68	N.A.	98.80
0-40	71.33	N.A.	99.70
0-60	71.49	N.A.	100.00
0-90	71.52	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	71.52	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.15
10-20	27.47
20-30	5.06
30-40	0.64
40-50	0.09
50-60	0.07
60-70	0.03
70-80	0.00
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

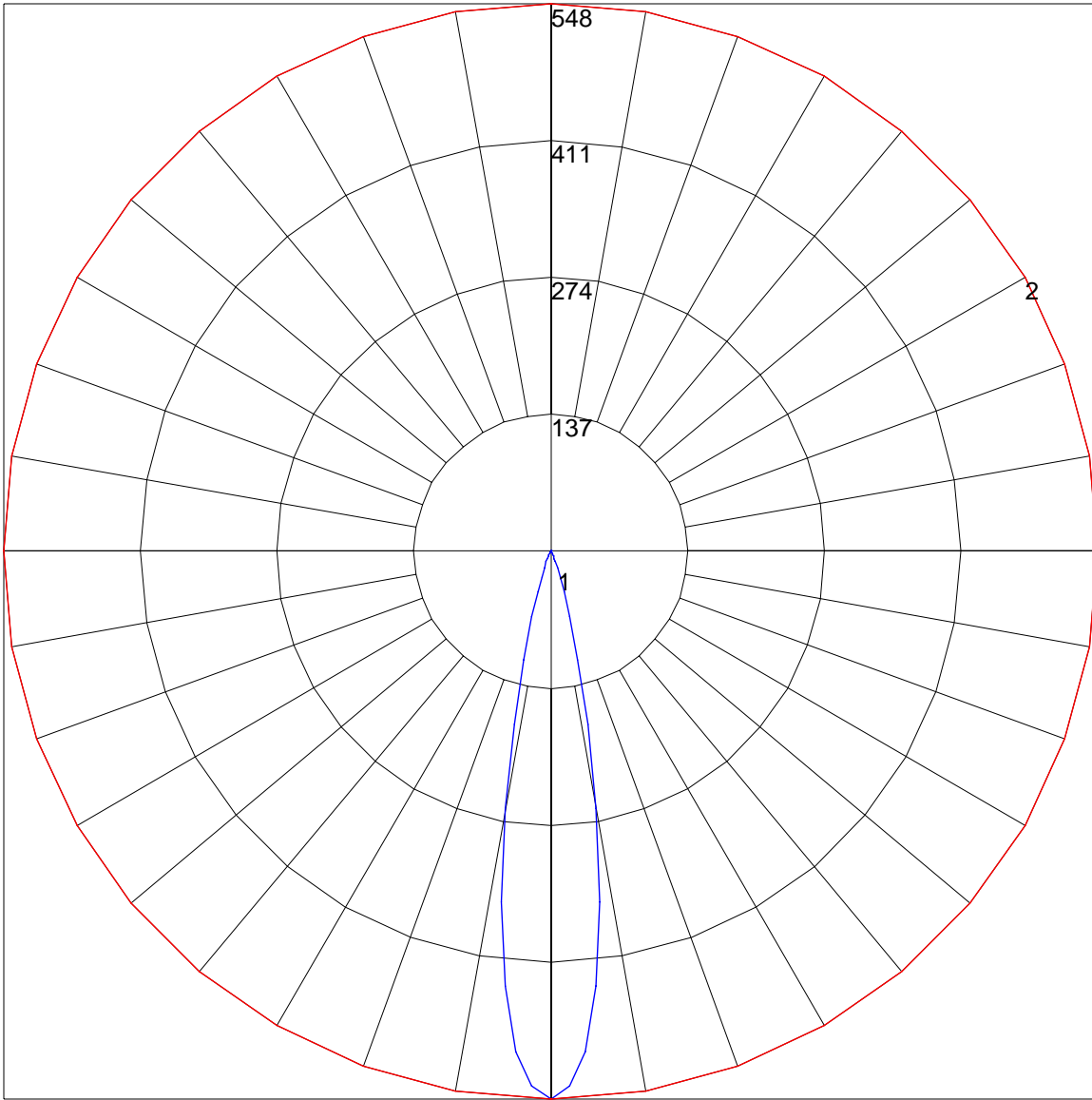
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	118	116	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	115	113	111	111	110	113	111	109	108	107	106	105	103	103	102	100	99	99	97	97
2	112	109	106	104	104	110	107	105	103	104	102	101	101	100	99	99	98	97	95	95
3	109	105	102	100	100	107	104	101	99	101	99	97	99	97	96	97	96	94	93	93
4	106	102	99	96	96	105	101	98	96	99	96	94	97	95	93	96	94	92	91	91
5	104	99	96	93	93	103	98	95	93	97	94	92	95	93	91	94	92	91	90	90
6	102	97	93	91	91	101	96	93	91	95	92	90	94	91	89	93	91	89	88	88
7	100	95	91	89	89	99	94	91	89	93	90	88	92	90	88	91	89	87	86	86
8	98	92	89	87	87	97	92	89	87	91	88	86	90	88	86	90	87	86	85	85
9	96	91	87	85	85	95	90	87	85	90	87	85	89	86	85	88	86	84	84	84
10	94	89	86	84	84	94	89	86	84	88	85	83	87	85	83	87	85	83	82	82

POLAR GRAPH



Maximum Candela = 548.093 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.)