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Report No: L101605106

Date: 11/8/2016



NVLAP LAB CODE 200927-0

Report No: L101605106

Prepared For: Number Eight Lighting Company
 526 Portal Street, Cotati, CA 94931

Model Number: 803/J2-HI-15-XX/DIM1-8-1000/FR-LG-P-1-WH/NL

Test: Photometric/Electrical Test

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. Catalog number is 803/J2-HI-15-XX/DIM1-8-1000/FR-LG-P-1-WH/NL . Received in working and undamaged condition. No modifications were necessary.

Testing Condition: Fixture is tested with no special conditions.

Sample Arrival Date: 10/31/16

Date of Tests: 11/3/16 - 11/7/16

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-S1	11/18/16
Xitron Power Analyzer	2503AH	MT-EL01	11/30/16
ITECH DC Power Supply	IT6122	PSDC-03-S1	11/17/16
Fluke Digital Thermometer	52k/J	MT-TP02-GC	11/24/16
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 Summary

Manufacturer:	Number Eight Lighting Company
Model Number:	803/J2-HI-15-XX/DIM1-8-1000/FR-LG-P-1-WH/NL
Driver Model Number:	INTUITIVE SYSTEMS ISD-601-1050-15-D
Total Lumens:	936.00
Input Voltage (VAC/60Hz):	120.00
Input Current (Amp):	0.13
Input Power (W):	15.00
Input Power Factor:	0.98
Current ATHD @ 120V(%):	8%
Current ATHD @ 277V(%):	N/A
Efficacy:	62
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	1:05
Total Operating Time (Hours):	1:45
Off State Power(W):	0.00

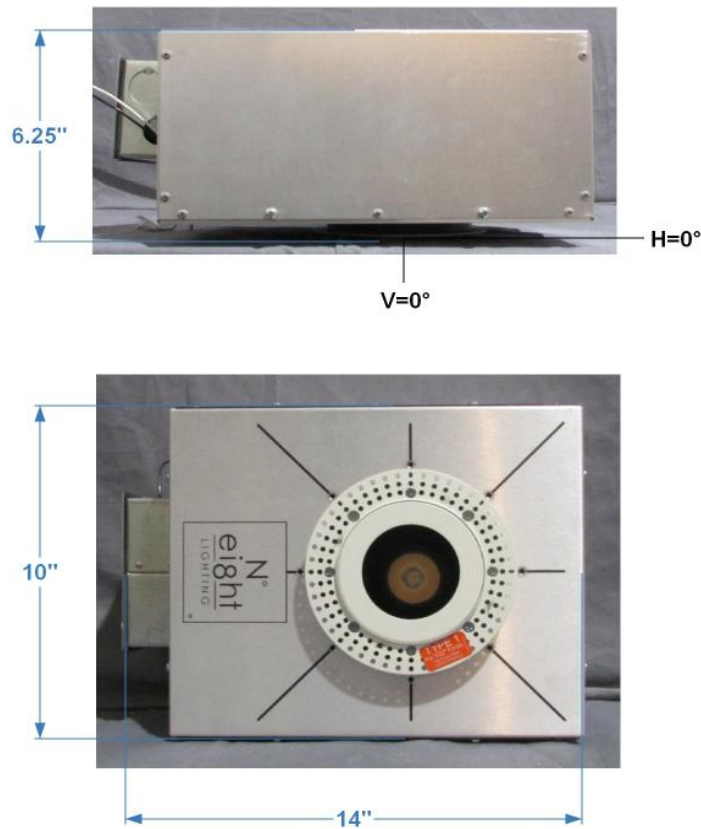


FIG.1 LUMINAIRE

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

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 : Dennis Malonzo

Test Report Released by:



Jeff Ahn
Engineering Manager

Test Report Reviewed by:



Steve Kang
Quality Assurance

**Attached are photometric data reports. Total number of pages: 9*



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Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L101605106.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101605106
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 11/04/2016
 [MANUFAC] Number Eight Lighting Company
 [LUMCAT] 803/J2-HI-15-XX/DIM1-8-1000/FR-LG-P-1-WH/NL
 [LUMINAIRE] LED Recessed Adjustable Downlight, 15° Beam Spread, 2.75" DIAMETER Aperture Trim
 [BALLASTCAT] INTUITIVE SYSTEMS ISD-601-1050-15-D
 [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, 15.00W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	936
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	0.32
Spacing Criterion (Diagonal)	0.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.23 ft (Diameter)
Luminous Width (90-270)	0.23 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	2745	2745	2745
55	903	903	903
65	1225	1225	1225
75	2000	2000	2000
85	2970	2970	2970

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L101605106.IES

CANDELA TABULATION

	<u>0</u>
0.0	5705
1.0	5684
3.0	5347
5.0	4669
7.0	3827
9.0	2960
11.0	2225
13.0	1666
15.0	1258
17.0	953
19.5	664
22.5	417
25.5	262
29.0	155
33.0	84
37.5	37
42.5	11
47.5	4
55.0	2
65.0	2
75.0	2
85.0	1
90.0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L101605106.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	726.49	N.A.	77.60
0-30	872.27	N.A.	93.20
0-40	916.48	N.A.	98.00
0-60	929.77	N.A.	99.40
0-80	933.73	N.A.	99.80
0-90	935.62	N.A.	100.00
10-90	610.38	N.A.	65.20
20-40	190.00	N.A.	20.30
20-50	201.36	N.A.	21.50
40-70	15.18	N.A.	1.60
60-80	3.96	N.A.	0.40
70-80	2.06	N.A.	0.20
80-90	1.89	N.A.	0.20
90-110	0.00	N.A.	0.00
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
110-180	0.00	N.A.	0.00
0-180	935.62	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	325.24
10-20	401.25
20-30	145.78
30-40	44.22
40-50	11.36
50-60	1.92
60-70	1.90
70-80	2.06
80-90	1.89
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

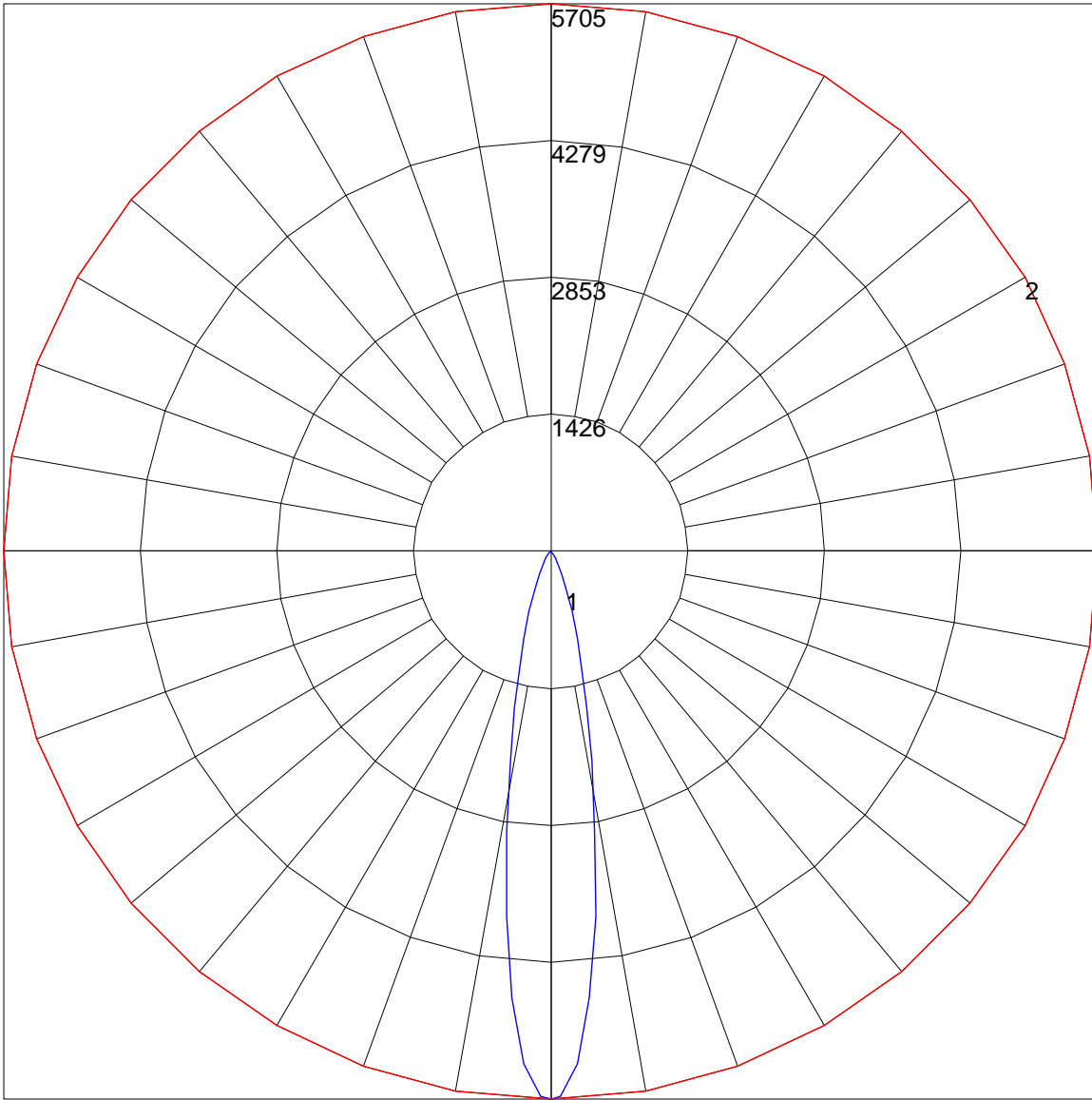
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	111	111	111	106	106	106	102	102	102	100	0
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96	0
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	95	94	93	0
3	107	102	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	90	0
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	87	0
5	101	95	90	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84	0
6	98	91	87	84	96	91	87	84	89	86	83	88	85	83	87	84	82	81	0
7	95	88	84	81	94	88	84	81	87	83	80	86	82	80	85	82	80	79	0
8	92	86	81	78	91	85	81	78	84	81	78	83	80	78	82	80	77	76	0
9	90	83	79	76	89	83	79	76	82	78	76	81	78	75	80	77	75	74	0
10	87	81	76	74	87	80	76	74	80	76	74	79	76	73	78	75	73	72	0

POLAR GRAPH



Maximum Candela = 5705 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.)

SAMPLE Illuminance cone diagram

Mounting Height = 12 ft.

