



Report No: L121706414 Issue Date: 1/5/2018

Report Prepared For: Number Eight Lighting Company

526 Portal Street, Cotati, CA 94931

Model Number: 803/J2-HI-25/DIM1-8-700 with FS-LG-P-1-WH/NL trim

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. Received in working and undamaged condition. No

modifications were necessary.

Testing Condition: Fixture is tested with no special conditions.

Sample Arrival Date: 1/2/18

Date of Tests: 1/4/18 - 1/5/18

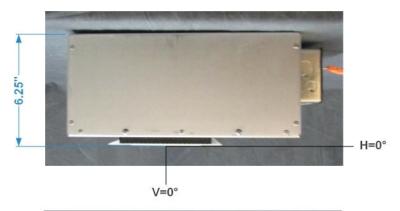
Seasoning of Sample: No seasoning was performed in accordance with IESNA LM-79.

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	1/9/19
BK PRECISION	1747	PS-DC04	1/10/19
Fluke Digital Thermometer	52K/J	MT-TP05	1/10/19
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-25/DIM1-8-700 with FS-LG-P-1-WH/NL trim		
Driver Model Number:	IntuitiveSystems ISD-701-1000-15-D		
Total Lumens:	582.65		
Input Voltage (VAC/60Hz):	120.00		
Input Current (Amp):	0.082		
Input Power (W):	9.53		
Input Power Factor:	0.97		
Current ATHD @ 120V(%):	8%		
Current ATHD @ 277V(%):	N/A		
Efficacy:	61		
Ambient Temperature (°C):	25.0		
Stabilization Time (Hours):	0:45		
Total Operating Time (Hours):	1:20		



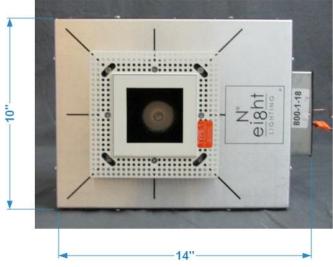


FIG. 1 LUMINAIRE

^{*}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 ceragency of Federal Government.	tification, approval or endorsement by NVLAP, NIST or any
Report Prepared by : Joseph Shin	
Test Report Released by:	Test Report Reviewed by:

Jeff Ahn Engineering Manager

Um

Steve Kang Quality Assurance

Steveling

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

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



www.lightlaboratory.com

Photometric Test Report

IES INDOOR REPORT

PHOTOMETRIC FILENAME: L121706414.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121706414

[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)

[ISSUEDATE] 1/5/2018

[MANUFAC] Number Eight Lighting Company

[LUMCAT] 803/J2-HI-25/DIM1-8-700 with FS-LG-P-1-WH/NL trim

[LUMINAIRE] LED Recessed Downlight, 25° Beam Spread, 0° Aiming Angle,

[MORE] 2.75" x 2.75" Aperture Trim

[BALLASTCAT] IntuitiveSystems ISD-701-1000-15-D

[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND

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

[INPUT] 120VAC, 9.53W

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp Total Lamp Lumens Luminaire Lumens	N.A. (absolute) N.A. (absolute) 583
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	9.53
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.48
Spacing Criterion (Diagonal)	0.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.23 ft
Luminous Width (90-270)	0.23 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4312	4312	4312
55	709	709	709
65	0	0	0
75	0	0	0
85	0	0	0

PHOTOMETRIC FILENAME: L121706414.IES

CANDELA TABULATION

0.0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0	<u>0</u> 2035 2054 2028 1987 1933 1867 1789 1702 1608
10.0	1406
12.0	1197
14.0	992
16.0	800
18.0	626
20.0	478
22.5	333
25.0	233
27.5	166
30.0	121
35.0	67
40.0	35
45.0	15 -
50.0	5 2
55.0 60.0	1
65.0	0
70.0	0
75.0	0
80.0	0
85.0	0
90.0	Ö

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	407.55	N.A.	69.90
0-30	522.19	N.A.	89.60
0-40	566.90	N.A.	97.30
0-60	582.41	N.A.	100.00
0-80	582.65	N.A.	100.00
0-90	582.65	N.A.	100.00
10-90	419.56	N.A.	72.00
20-40	159.35	N.A.	27.30
20-50	172.65	N.A.	29.60
40-70	15.76	N.A.	2.70
60-80	0.24	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
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	582.65	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	163.10
10-20	244.45
20-30	114.64
30-40	44.70
40-50	13.30
50-60	2.22
60-70	0.24
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

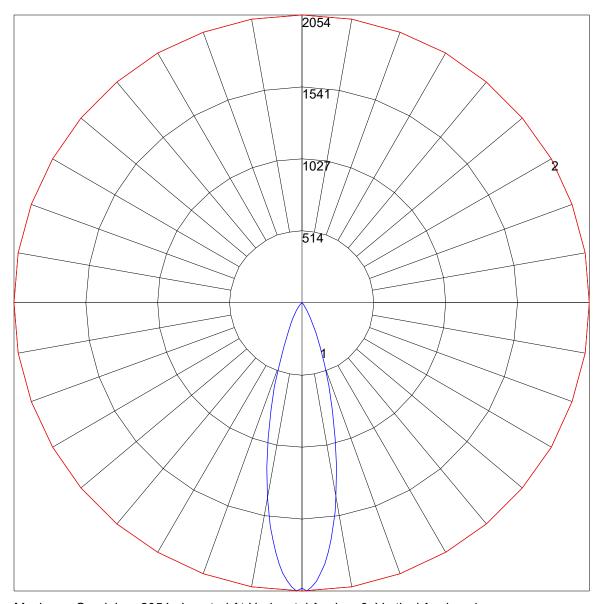
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119 119 119 119	116 116 116 116	111 111 111	106 106 106	102 102 102	100
1	115 112 110 108	112 110 108 107	106 105 103	103 101 100	99 98 98	96
2	110 106 103 101	108 105 102 99	10299 97	99 97 95	96 95 93	92
3	10610197 94	10510096 94	97 95 92	95 93 91	93 91 89	88
4	10397 92 89	10196 92 89	94 90 88	92 89 87	90 88 86	84
5	99 93 88 85	98 92 87 84	90 86 84	88 85 83	87 84 82	81
6	96 89 84 81	94 88 84 81	87 83 80	85 82 80	84 81 79	78
7	92 85 81 78	91 85 80 77	84 80 77	83 79 77	82 79 76	75
8	90 82 78 74	88 82 77 74	81 77 74	80 76 74	79 76 73	72
9	87 79 75 72	86 79 75 72	78 74 71	77 74 71	77 73 71	70
10	84 77 72 69	83 76 72 69	76 72 69	75 71 69	74 71 69	68

POLAR GRAPH



Maximum Candela = 2054 Located At Horizontal Angle = 0, Vertical Angle = 1 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) # 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)

PHOTOMETRIC FILENAME : L121706414.IES

ILLUMINANCE CONE DIAGRAM: BEAM (50%) MOUNT HEIGHT(Ft): 12

	Illuminance at a Center Beam fc	a D	i stance Beam Widt	h	
2.08	509 fc	L	1.0 ft	1.0 ft	
4.0ft	127 fc	A	1.9 ft	1.9 ft	
6.0A	56.5 fc		2.9 ft	2.9 ft	
8,0A	31.8 fc		3.9 ft	3.9 ft	
10.0R	20.4 fc		4.9 ft	4.9 ft	
12.0ft	14.1 fc		5.8 ft	5.8 ft	
■ Vert. Spread: 27.3° ■ Horiz. Spread: 27.4°					