



Report No: L121706476 Issue Date: 1/16/2018

Report Prepared For: Number Eight Lighting Company

526 Portal Street, Cotati, CA 94931

Model Number: 804/J2-WD-25/DIM1-8-1000-WD with FR-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: 1/10/18 - 1/16/18

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

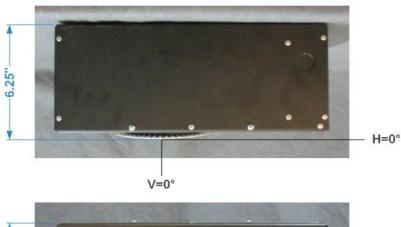
Equipment List

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.

NVLAP LAB CODE 200927-0

Test Summary	
Manufacturer:	Number Eight Lighting Company
Model Number:	804/J2-WD-25/DIM1-8-1000-WD with FR-LG-P-1-WH/NL trim
Driver Model Number:	IntuitiveSystems ISD-701-350-15-D
Total Lumens:	740.87
Input Voltage (VAC/60Hz):	120.00
Input Current (Amp):	0.12
Input Power (W):	14.25
Input Power Factor:	0.99
Current ATHD @ 120V(%):	5%
Current ATHD @ 277V(%):	N/A
Efficacy:	52
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:40
Total Operating Time (Hours):	1:15



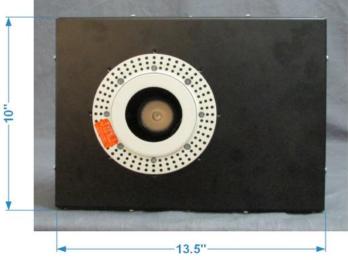


FIG. 1 LUMINAIRE

^{*}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 use any agency of Federal Gov	ed by the customer to claim product certification, approval or endorsement by NVLAP, NIST or ernment.
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Test Report Released by:	Test Report Reviewed by:

Jeff Ahn

Engineering Manager

Uma .

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.



Photometric Test Report

IES INDOOR REPORT

www.lightlaboratory.com

PHOTOMETRIC FILENAME: L121706476.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121706476

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

[ISSUEDATE] 1/16/2018

[MANUFAC] Number Eight Lighting Company

[LUMCAT] 804/J2-WD-25/DIM1-8-1000-WD with FR-LG-P-1-WH/NL trim

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

[MORE] 2.75" Dia. Aperture Trim

[BALLASTCAT] IntuitiveSystems ISD-701-350-15-D

[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND

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

[INPUT] 120VAC, 14.25W

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	741
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	14.25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.48
Spacing Criterion (Diagonal)	0.50
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	4759	4759	4759
55	903	903	903
65	0	0	0
75	0	0	0
85	0	0	0

PHOTOMETRIC FILENAME: L121706476.IES

CANDELA TABULATION

PHOTOMETRIC FILENAME: L121706476.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	495.36	N.A.	66.90
0-30	655.74	N.A.	88.50
0-40	724.14	N.A.	97.70
0-60	740.63	N.A.	100.00
0-80	740.87	N.A.	100.00
0-90	740.87	N.A.	100.00
10-90	546.51	N.A.	73.80
20-40	228.77	N.A.	30.90
20-50	243.49	N.A.	32.90
40-70	16.74	N.A.	2.30
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	740.87	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	194.36
10-20	301.00
20-30	160.38
30-40	68.40
40-50	14.71
50-60	1.78
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

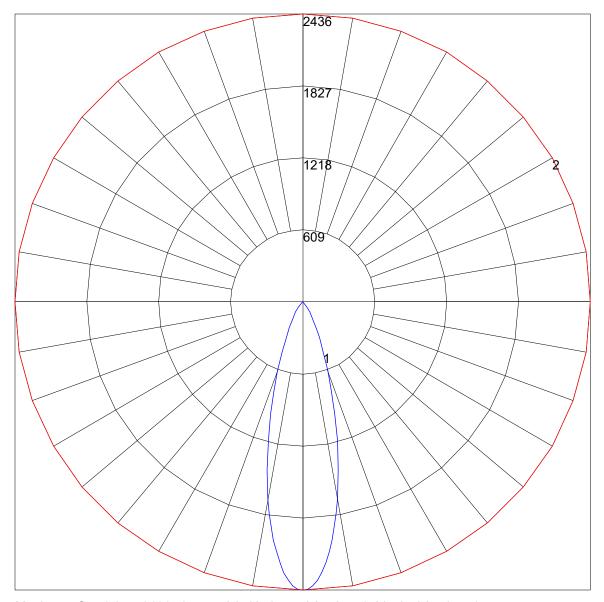
PHOTOMETRIC FILENAME: L121706476.IES

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
	110 110 110 110	440440440440		400400400	400 400 400	400
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	102 101 100	99 98 97	96
2	110 106 103 100	108 105 102 99	10199 97	99 97 95	96 94 93	91
3	10610197 94	10410096 93	97 94 92	95 92 90	93 91 89	87
4	10296 92 88	10195 91 88	93 90 87	91 88 86	90 87 85	84
5	99 92 87 84	97 91 87 84	89 86 83	88 85 82	86 84 81	80
6	95 88 83 80	94 87 83 80	86 82 79	85 81 79	83 81 78	77
7	92 85 80 76	91 84 79 76	83 79 76	82 78 76	81 78 75	74
8	89 81 77 73	88 81 76 73	80 76 73	79 75 73	78 75 72	71
9	86 78 74 71	85 78 73 70	77 73 70	76 73 70	75 72 70	69
10	83 75 71 68	82 75 71 68	74 70 68	74 70 68	73 70 67	66

POLAR GRAPH



Maximum Candela = 2436 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.)

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

Illuminance at a Distance				
	Center Beam fc	Beam Width		
2.0€	609 fc	1.0 ft		
4.0ft	152 fc	2.0 ft		
6.0R	67.7 fc	3.0 ft		
8.0A	38.1 fc	4.0 ft		
10.0 R	24.4 fc	5.0 ft		
12.0ft	16.9 fc	6.0 ft		
■ Beam Spread: 28.0°				