



Report No:	L121706470	Issue Date: 1/16/2018
Report Prepared Fo	or: Number Eight Lighting Company 526 Portal Street, Cotati, CA 94931	
Model Number:	804/J2-WD-25/DIM1-8-1000-WD with FR-P-1-WH trim	
Test:	Photometric/Electrical Test	
	Appropriate part or all test guidelines were used for test performed: Approved Methods for Electrical and Photometric Measurements of Soli	d-State Lighting Products

IESNA LM79: 2008 Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Product 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.

Date of Tests:	1/10/18	-	1/16/18	
Seasoning of Sample:	No seasoni	ng was	performed in accordance with IESNA LM-7	79.

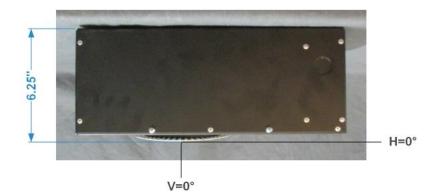
Equipment List					
Equipment Used	Model No	Stock No	Calibration Due Date		
Chroma Programmable AC Source	61604	PS-AC02			
Yokogawa Digital Power Meter	WT210	MT-EL06-S4	1/9/19		
BK PRECISION	1747	PS-DC04	1/10/19		
Fluke Digital Thermometer	52K/J	MT-TP05	1/10/19		
LLI Type C Goniophotometer System	RMG-C-MKII	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.

8165 E Kaiser Blvd. Anaheim, CA 92808 www.lightlaboratory.com



Test Summary			
Manufacturer:	Number Eight Lighting Company		
Model Number:	804/J2-WD-25/DIM1-8-1000-WD with FR-P-1-WH trim		
Driver Model Number:	IntuitiveSystems ISD-701-350-15-D		
Total Lumens:	602.64		
Input Voltage (VAC/60Hz):	120.00		
Input Current (Amp):	0.12		
Input Power (W):	14.32		
Input Power Factor:	0.98		
Current ATHD @ 120V(%):	6%		
Current ATHD @ 277V(%):	N/A		
Efficacy:	42		
Ambient Temperature (°C):	25.0		
Stabilization Time (Hours):	0:40		
Total Operating Time (Hours):	1:25		



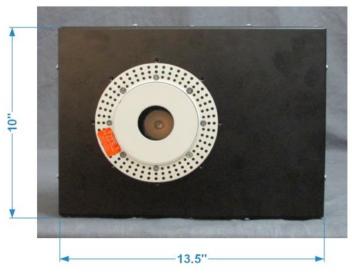


FIG. 1 LUMINAIRE

*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 : Joseph Shin

Test Report Released by:

UME

Jeff Ahn Engineering Manager

Test Report Reviewed by:

enelis

Steve Kang Quality Assurance

*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 PHOTOMETRIC FILENAME : L121706470.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002 [TEST] L121706470 [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-P-1-WH trim [LUMINAIRE] LED Recessed Downlight, 25° Beam Spread, 0° Aiming Angle, [MORE] 1.75" 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, 14.32W [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp Total Lamp Lumens	N.A. (absolute) N.A. (absolute)
	603
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	14.32
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	0.46
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	Average	Average	Average
Degrees	0-Deg	45-Deg	90-Deg
45	1721	1721	1721
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

CANDELA TABULATION

<u>0</u> 0.0 2408 1.0 2431 2.0 2397 3.0 2343 4.0 2273 5.0 2186 6.0 2086 7.0 1977 8.0 1860 9.0 1737 10.0 1612 12.0 1356 14.0 1107 16.0 881 18.0 687 20.0 526 22.5 362 25.0 239 27.5 150 30.0 86 23 35.0 40.0 7 45.0 2 50.0 1 55.0 0 60.0 0 65.0 0 70.0 0 75.0 0 80.0 0 0 85.0

90.0

0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	462.66	N.A.	76.80
0-30	579.09	N.A.	96.10
0-40	600.15	N.A.	99.60
0-60	602.64	N.A.	100.00
0-80	602.64	N.A.	100.00
0-90	602.64	N.A.	100.00
10-90	412.83	N.A.	68.50
20-40	137.49	N.A.	22.80
20-50	139.76	N.A.	23.20
40-70	2.49	N.A.	0.40
60-80	0.00	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	602.64	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

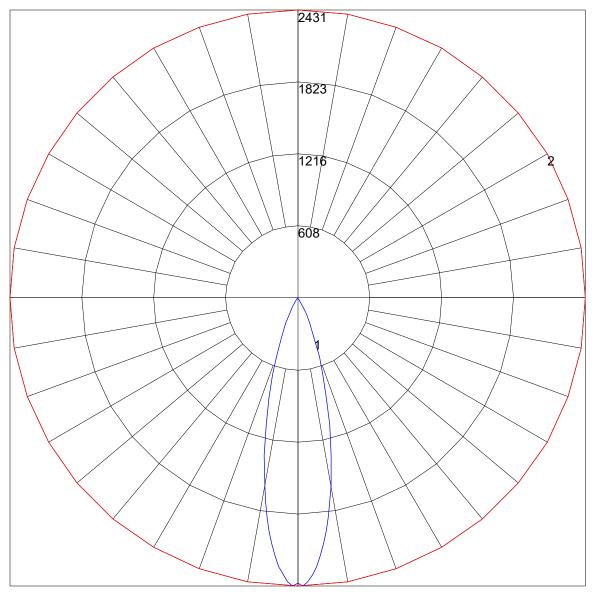
Zone	Lumens
0-10	189.80
10-20	272.85
20-30	116.43
30-40	21.06
40-50	2.27
50-60	0.22
60-70	0.00
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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
8 92 85 81 9 90 83 79	1091131111091071021091061031019610610119895911029794918899949087	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	100 96 93 90 87 84 81 79 76 74 72

POLAR GRAPH



Maximum Candela = 2431 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.)

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

Illuminance at a Distance					
	Center Beam fc		Beam Wid	th	
2.0 R	602 fc	L	0.9 ft	0.9 ft	
4.08	151 fc		1.9 ft	1.9 ft	
6.0R	66.9 fc		2.8 ft	2.8 ft	
8.0 R	37.6 fc		3.7 ft	3.7 ft	
10.0 R	24.1 fc		4.7 ft	4.7 ft	
12.0 R	16.7 fc		5.6 ft	5.6 ft	
	Vert. Spread: 26.2° Horiz. Spread: 26.3°				