



Report No:	L121706431	Issue Date: 1/10/2018
Report Prepared Fo	r: Number Eight Lighting Company 526 Portal Street, Cotati, CA 94931	
Model Number:	804/J2-HI-15/DIM1-8-1400 with FS-LG-P-1-WH/NL trim	
Test:	Photometric/Electrical Test	
	Appropriate part or all test guidelines were used for test performed:	d-State Lighting Products

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.

Seasoning of Sample:	No seasonir	ng was p	performed in accordance with IESNA LM-79.
Date of Tests:	1/6/18	-	1/10/18
Sample Arrival Date:	1/2/18		

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-HI-15/DIM1-8-1400 with FS-LG-P-1-WH/NL trim	
Driver Model Number:	IntuitiveSystems ISD-701-1400-20-D	
Total Lumens:	1117.04	
Input Voltage (VAC/60Hz):	120.00	
Input Current (Amp):	0.17	
Input Power (W):	20.49	
Input Power Factor:	0.99	
Current ATHD @ 120V(%):	8%	
Current ATHD @ 277V(%):	N/A	
Efficacy:	55	
Ambient Temperature (°C):	25.0	
Stabilization Time (Hours):	0:40	
Total Operating Time (Hours):	1:25	





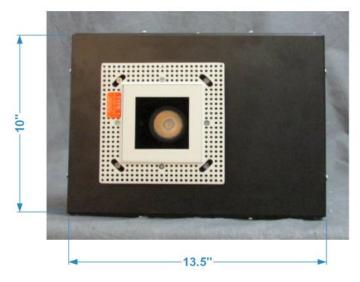


FIG. 1 LUMINAIRE

*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 : L121706431.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002 [TEST] L121706431 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com) [ISSUEDATE] 1/10/2018 [MANUFAC] Number Eight Lighting Company [LUMCAT] 804/J2-HI-15/DIM1-8-1400 with FS-LG-P-1-WH/NL trim [LUMINAIRE] LED Recessed Downlight, 15° Beam Spread, 0° Aiming Angle, [MORE] 2.75" x 2.75" Aperture Trim [BALLASTCAT] IntuitiveSystems ISD-701-1400-20-D [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS. [INPUT] 120VAC, 20.49W [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens Luminaire Lumens	N.A. (absolute) 1117
	N.A.
Total Luminaire Efficiency	
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	20.49
Ballast Factor	1.00
СІЕ Туре	Direct
Spacing Criterion (0-180)	0.30
Spacing Criterion (90-270)	0.30
Spacing Criterion (Diagonal)	0.34
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 55	3162 354	3162 354	3162 354
65	0	0	0
75	0	0	0
85	0	0	0

CANDELA TABULATION

<u>0</u> 0.0 7520 1.0 7437 2.0 7199 3.0 6829 4.0 6349 5.0 5798 6.0 5208 7.0 4613 4041 8.0 9.0 3510 10.0 3036 12.0 2266 14.0 1703 16.0 1289 18.0 973 20.0 725 22.5 491 25.0 332 27.5 230 30.0 163 35.0 77 40.0 31 45.0 11 50.0 3 55.0 1 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	886.15	N.A.	79.30
0-30	1051.97	N.A.	94.20
0-40	1105.33	N.A.	99.00
0-60	1117.04	N.A.	100.00
0-80	1117.04	N.A.	100.00
0-90	1117.04	N.A.	100.00
10-90	657.79	N.A.	58.90
20-40	219.18	N.A.	19.60
20-50	229.79	N.A.	20.60
40-70	11.71	N.A.	1.00
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	1117.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

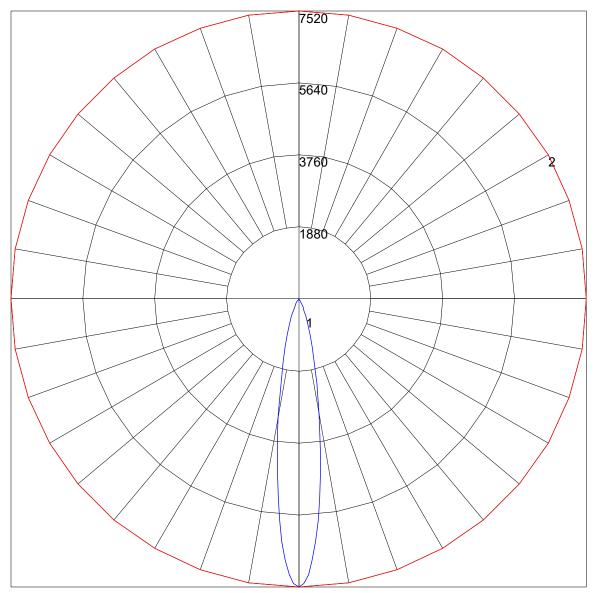
ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	459.25
10-20	426.90
20-30	165.82
30-40	53.36
40-50	10.61
50-60	1.10
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

POLAR GRAPH



Maximum Candela = 7520 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.)

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

Illuminance at a Distance		
	Center Beam fc	Beam Width
2.0 R	1,880 fc	0.6 ft
4.0R	470 fc	1.2 ft
6.0 R	209 fc	1.8 ft
8.0 R	118 fc	2.4 ft
10.0 R	75.2 fc	3.0 ft
12.0ft	52.2 fc	3.6 ft
	Beam Spread: 17.2°	