



Report No:	L121706471	Issue Date: 1/16/2018
Report Prepared Fo	or: Number Eight Lighting Company 526 Portal Street, Cotati, CA 94931	
Model Number:	804/J2-WD-40/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.

Sample Arrival Date:	1/2/18		
Date of Tests:	1/10/18	-	1/16/18
Seasoning of Sample:	No seasonir	ng was	performed in accordance with IESNA LM-79.

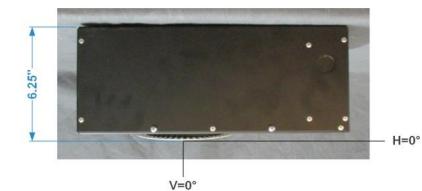
Equipment List						
Equipment Used	Model No	Stock No	Calibration Due Date			
Chroma Programmable AC Source	61604	PS-AC02				
Yokogawa Digital Power Meter	WT210	MT-EL06-S4	1/9/19			
BK PRECISION	1747	PS-DC04	1/10/19			
Fluke Digital Thermometer	52K/J	MT-TP05	1/10/19			
LLI Type C Goniophotometer System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

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



Test Summary			
Manufacturer:	Number Eight Lighting Company		
Model Number:	804/J2-WD-40/DIM1-8-1000-WD with FR-P-1-WH trim		
Driver Model Number:	IntuitiveSystems ISD-701-350-15-D		
Total Lumens:	669.62		
Input Voltage (VAC/60Hz):	120.00		
Input Current (Amp):	0.12		
Input Power (W):	14.29		
Input Power Factor:	0.98		
Current ATHD @ 120V(%):	6%		
Current ATHD @ 277V(%):	N/A		
Efficacy:	47		
Ambient Temperature (°C):	25.0		
Stabilization Time (Hours):	0:40		
Total Operating Time (Hours):	1:45		



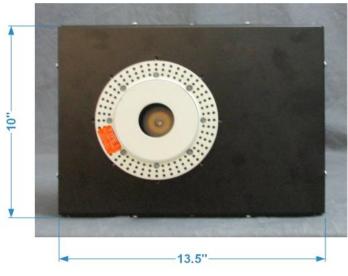


FIG. 1 LUMINAIRE

*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



Photometric Test Report

IES INDOOR REPORT PHOTOMETRIC FILENAME : L121706471.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002 [TEST] L121706471 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com) [ISSUEDATE] 1/16/2018 [MANUFAC] Number Eight Lighting Company [LUMCAT] 804/J2-WD-40/DIM1-8-1000-WD with FR-P-1-WH trim [LUMINAIRE] LED Recessed Downlight, 40° 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, 14.29W [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp Total Lamp Lumens Luminaire Lumens	N.A. (absolute) N.A. (absolute) 670
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	14.29
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.58
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 Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15491	15491	15491
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

CANDELA TABULATION

<u>0</u> 0.0 1703 1.0 1723 2.0 1712 3.0 1692 4.0 1666 5.0 1633 6.0 1595 7.0 1551 8.0 1502 9.0 1447 10.0 1388 12.0 1253 14.0 1101 16.0 943 18.0 787 20.0 642 22.5 480 25.0 348 27.5 250 30.0 177 35.0 88 40.0 43 45.0 18 50.0 5 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	425.86	N.A.	63.60
0-30	591.71	N.A.	88.40
0-40	652.59	N.A.	97.50
0-60	669.62	N.A.	100.00
0-80	669.62	N.A.	100.00
0-90	669.62	N.A.	100.00
10-90	521.58	N.A.	77.90
20-40	226.73	N.A.	33.90
20-50	242.67	N.A.	36.20
40-70	17.03	N.A.	2.50
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	669.62	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

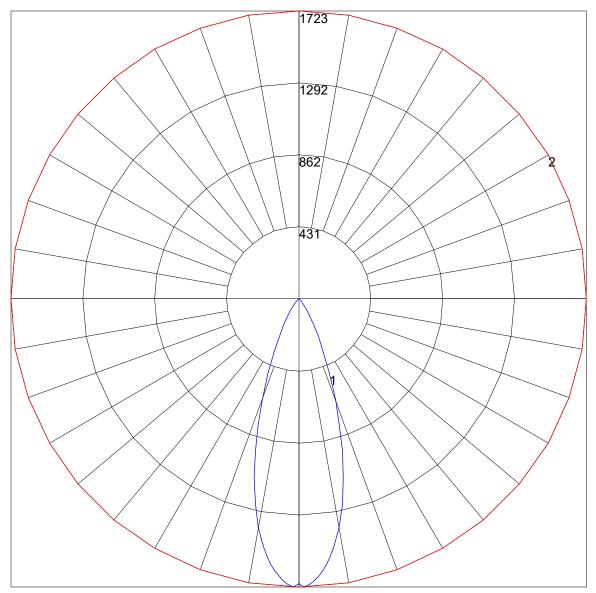
Lumens
148.04
277.82
165.85
60.88
15.94
1.09
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

	30	70	50	30	10	0
	50 30 10	70 50 30 10	50 30 10	50 30 10	50 30 10	0
1 114 2 110 3 106 4 1029 5 98 6 94 7 91 8 87 8	37 82 79 33 78 75 30 75 72 77 72 69	$\begin{array}{c} 116 \ 116 \ 116 \ 116 \ 116 \ 116 \ 108 \ 106 \ 108 \ 104 \ 101 \ 99 \ 104 \ 99 \ 95 \ 92 \ 100 \ 94 \ 90 \ 87 \ 96 \ 90 \ 86 \ 82 \ 93 \ 86 \ 82 \ 78 \ 90 \ 83 \ 78 \ 75 \ 86 \ 79 \ 75 \ 71 \ 83 \ 76 \ 72 \ 68 \ 81 \ 73 \ 69 \ 66 \ \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	106 106 106 102 101 100 98 96 94 94 92 89 90 87 85 87 84 81 83 80 77 80 77 74 77 74 71 74 71 68 72 68 65	102 102 102 99 98 97 95 94 92 92 90 88 89 86 84 85 83 80 82 79 77 79 76 74 76 73 71 74 70 68 71 68 65	100 95 91 87 83 79 76 72 69 67 64

POLAR GRAPH



Maximum Candela = 1723 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	Di	stance	
	Center Beam fc		Beam Widt	:h
2.0 R	426 fc	1	1.2 ft	1.2 ft
4.08	106 fc		2.4 ft	2.5 ft
6.0 R	47.3 fc		3.7 ft	3.7 ft
8.0 R	26.6 fc		4.9 ft	4.9 ft
10.0 R	17.0 fc		6.1 ft	6.1 ft
12.0 R	11.8 fc		7.3 ft	7.4 ft
	Vert. Spread: 34.0° Horiz. Spread: 34.1°			