



Report No:	L121706446	Issue Date: 1/11/2018
Report Prepared F	or: Number Eight Lighting Company 526 Portal Street, Cotati, CA 94931	
Model Number:	803/K2-HI-15/DIM1-8-700 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.

Seasoning of Sample:			performed in accordance with IESNA LM-79.
Date of Tests:	1/7/18	-	1/11/18
Sample Arrival Date:	1/2/18		

Model No	Stock No	Calibration Due Date
61604	PS-AC02	
WT210	MT-EL06-S4	1/9/19
1747	PS-DC04	1/10/19
52K/J	MT-TP05	1/10/19
RMG-C-MKII	CD-LL04-GC	
2MR97	CD-SN03-S2	
SPR-3000	MT-SC01-S2	Before Use
	61604 WT210 1747 52K/J RMG-C-MKII 2MR97	61604 PS-AC02 WT210 MT-EL06-S4 1747 PS-DC04 52K/J MT-TP05 RMG-C-MKII CD-LL04-GC 2MR97 CD-SN03-S2

*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: 803/K2-HI-15/DIM1-8-700 with FR-LG-P-1-WH/NL trim			
Driver Model Number:	IntuitiveSystems ISD-701-1000-15-D		
Total Lumens:	684.11		
Input Voltage (VAC/60Hz):	120.00		
Input Current (Amp):	0.079		
Input Power (W):	9.31		
Input Power Factor:	0.99		
Current ATHD @ 120V(%):	4%		
Current ATHD @ 277V(%):	N/A		
Efficacy:	73		
Ambient Temperature (°C):	25.0		
Stabilization Time (Hours):	0:40		
Total Operating Time (Hours):	1:10		



V=0°

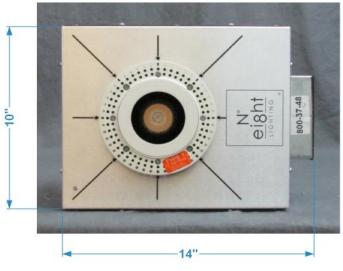


FIG. 1 LUMINAIRE

*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 : L121706446.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002 [TEST] L121706446 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com) [ISSUEDATE] 1/11/2018 [MANUFAC] Number Eight Lighting Company [LUMCAT] 803/K2-HI-15/DIM1-8-700 with FR-LG-P-1-WH/NL trim [LUMINAIRE] LED Recessed Downlight, 15° Beam Spread, 0° Aiming Angle, [MORE] 2.75" Dia. 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, 9.31W [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp Total Lamp Lumens	N.A. (absolute) N.A. (absolute)
	684
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	9.31
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.30
Spacing Criterion (90-270)	0.30
Spacing Criterion (Diagonal)	0.32
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	Average	Average	Average
Degrees	0-Deg	45-Deg	90-Deg
45	4759	4759	4759
55	903	903	903
65	0	0	0
75	0	0	0
85	0	0	0

CANDELA TABULATION

<u>0</u> 0.0 4584 1.0 4533 2.0 4389 3.0 4163 4.0 3869 5.0 3524 6.0 3150 7.0 2772 2414 8.0 9.0 2088 10.0 1803 12.0 1347 14.0 1017 16.0 777 18.0 592 20.0 446 305 22.5 25.0 206 27.5 143 30.0 103 35.0 50 25 40.0 45.0 13 50.0 5 55.0 2 60.0 1 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	533.04	N.A.	77.90
0-30	635.94	N.A.	93.00
0-40	670.98	N.A.	98.10
0-60	683.87	N.A.	100.00
0-80	684.11	N.A.	100.00
0-90	684.11	N.A.	100.00
10-90	407.16	N.A.	59.50
20-40	137.94	N.A.	20.20
20-50	148.61	N.A.	21.70
40-70	13.13	N.A.	1.90
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	684.11	N.A.	100.00

Total Luminaire Efficiency = N.A.%

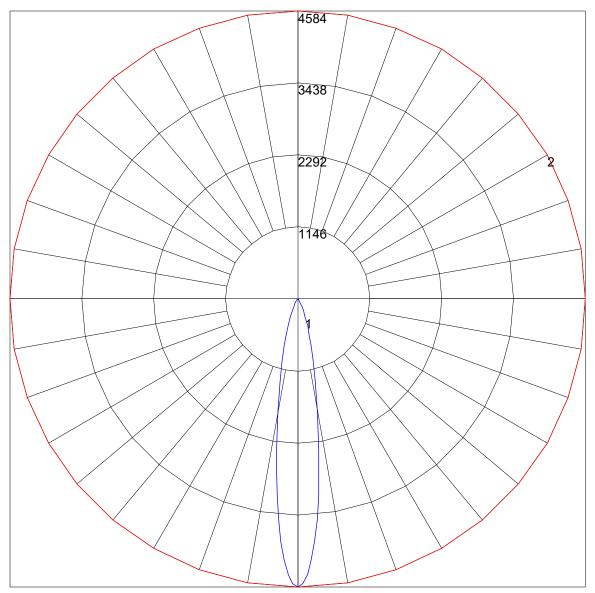
ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	276.96
10-20	256.09
20-30	102.89
30-40	35.04
40-50	10.67
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

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

POLAR GRAPH



Maximum Candela = 4584 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	
	Center Beam fc	Beam Width
2.0ft	1,146 fc	0.6 ft
4.0R	287 fc	1.2 ft
6.0R	127 fc	1.8 ft
8.0R	71.6 fc	2.4 ft
10.0ft	45.8 fc	3.0 ft
12.0ft	31.8 fc	3.6 ft
	Beam Spread: 16.9°	