



Report No:	L121706444	Issue Date: 1/11/2018
Report Prepared Fo	or: Number Eight Lighting Company 526 Portal Street, Cotati, CA 94931	
Model Number:	803/K2-HI-25/DIM1-8-700 with FS-LG-P-1-WH/NL trim	
Test:	Photometric/Electrical Test	
Standards Used:	Appropriate part or all test guidelines were used for test performed:	

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.

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



Test Summary	
Manufacturer:	Number Eight Lighting Company
Model Number:	803/K2-HI-25/DIM1-8-700 with FS-LG-P-1-WH/NL trim
Driver Model Number:	IntuitiveSystems ISD-701-1000-15-D
Total Lumens:	605.97
Input Voltage (VAC/60Hz):	120.00
Input Current (Amp):	0.079
Input Power (W):	9.29
Input Power Factor:	0.98
Current ATHD @ 120V(%):	4%
Current ATHD @ 277V(%):	N/A
Efficacy:	65
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:40
Total Operating Time (Hours):	1:10



V=0°

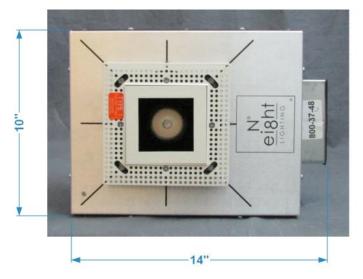


FIG. 1 LUMINAIRE

*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 : L121706444.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002 [TEST] L121706444 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com) [ISSUEDATE] 1/11/2018 [MANUFAC] Number Eight Lighting Company [LUMCAT] 803/K2-HI-25/DIM1-8-700 with FS-LG-P-1-WH/NL trim [LUMINAIRE] LED Recessed Downlight, 25° Beam Spread, 0° Aiming Angle, [MORE] 2.75" x 2.75" 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, 9.29W [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp Total Lamp Lumens	N.A. (absolute) N.A. (absolute)
Luminaire Lumens	606 `
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	9.29
Ballast Factor	1.00
СІЕ Туре	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	0.48
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	Average	Average	Average
Degrees	0-Deg	45-Deg	90-Deg
45	8625	8625	8625
55	4253	4253	4253
65	962	962	962
75	0	0	0
85	0	0	0

CANDELA TABULATION

<u>0</u> 0.0 2078 1.0 2070 2.0 2045 3.0 2004 4.0 1948 5.0 1880 6.0 1799 7.0 1708 8.0 1611 9.0 1509 10.0 1404 12.0 1194 14.0 990 16.0 801 18.0 628 20.0 480 22.5 334 25.0 232 27.5 165 30.0 119 35.0 68 40.0 43 45.0 30 50.0 20 55.0 12 60.0 5 2 65.0 70.0 1 75.0 0 80.0 0 0 85.0 90.0 0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	408.21	N.A.	67.40
0-30	522.68	N.A.	86.30
0-40	568.74	N.A.	93.90
0-60	603.25	N.A.	99.60
0-80	605.97	N.A.	100.00
0-90	605.97	N.A.	100.00
10-90	442.19	N.A.	73.00
20-40	160.53	N.A.	26.50
20-50	184.15	N.A.	30.40
40-70	36.97	N.A.	6.10
60-80	2.72	N.A.	0.40
70-80	0.26	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	605.97	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

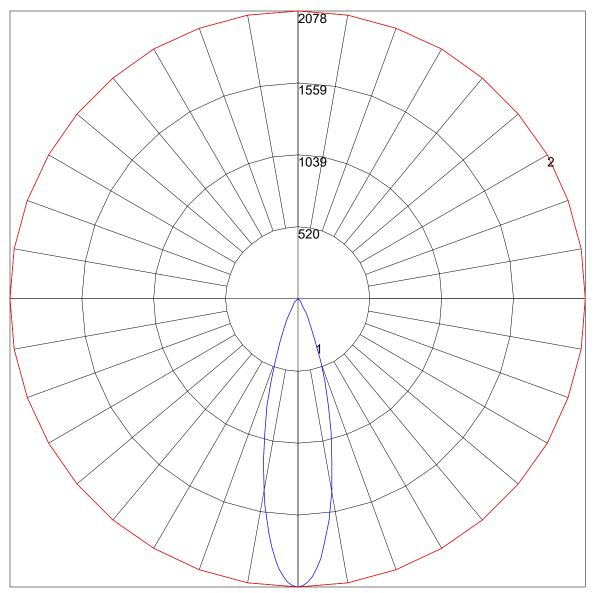
Zone	Lumens
0-10	163.77
10-20	244.43
20-30	114.47
30-40	46.06
40-50	23.62
50-60	10.89
60-70	2.46
70-80	0.26
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80	70	50	30	10	0
RW 7	70 50 30 10	70 50 30 10	50 30 10	50 30 10	50 30 10	0
1 1 2 1 3 1 4 1 5 9 6 9 7 9 8 8 9 8	119 119 119 119 114 112 110 108 110 106 102 100 106 100 93 102 102 96 91 88 98 91 86 83 94 87 82 79 91 84 79 76 38 80 76 72 35 78 73 70 33 75 70 67	116 116 116 116 112 110 108 106 108 104 101 99 104 99 95 92 100 94 90 87 96 90 86 83 93 87 82 79 90 83 79 75 87 80 75 72 84 77 73 70 82 74 70 67	111 111 111 106 104 103 101 99 96 97 93 91 92 89 86 89 85 82 85 81 78 82 78 75 79 75 72 76 72 69 74 70 67	106 106 106 102 101 100 98 96 94 94 92 89 91 87 85 87 84 81 84 80 78 81 77 75 78 74 72 75 72 69 73 69 67	102 102 102 99 98 97 95 94 92 92 90 88 89 86 84 86 83 81 83 80 77 80 77 74 77 74 71 75 71 69 72 69 67	100 95 91 87 83 79 76 73 70 68 66

POLAR GRAPH



Maximum Candela = 2078 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	520 fc	1.0 ft	
4.0R	130 fc	1.9 ft	
6.0R	57.7 fc	2.9 ft	
8.0R	32.5 fc	3.9 ft	
10.0 R	20.8 fc	4.8 ft	
12.0R	14.4 fc	5.8 ft	
Beam Spread: 27.1°			