

IES Report

ZipTwo® | 707 | Square 3519, Single Side Diffuse | 90 CRI | SO

707-Z2-4-48-XX-XX-X-0-Z-SO-359-FA-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	38	39	40	40
Total Lumens, 4' rail length (1219mm)	975	1005	1026	1036
Lumens per foot (305mm)	244	251	256	259
Input Power (W), 4' rail length (1219mm)	26.0	26.0	26.0	26.0
Watts per foot (305mm)	6.6	6.6	6.6	6.6
CRI	94	94	94	94

Due to the large number of options in Vode's product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



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

Report No: L082011214



Report No: L082011214

Issue Date: 9/8/2020

Report Prepared For: Vode Lighting
21684 8th Street East, Suite 700, Sonoma, CA 95476

Model Number: 707-Z2-48-Z-SO-359-FA-WH

Test: Photometric/Colorimetric/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.

Special Test Condition: Fixture is tested with no special conditions.

Sample Arrival Date: 8/21/20

Date of Tests: 8/22/20 - 9/8/20

Seasoning of Sample: No seasoning 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	1/9/21
BK PRECISION	1747	PS-DC04	1/10/21
Fluke Digital Thermometer	52K/J	MT-TP05	1/10/21
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

General Information

Manufacturer:	Vode Lighting
Model Number:	707-Z2-48-Z-SO-359-FA-WH
Driver Model Number:	MEAN WELL HLG-40H-36A

Test Summary

Total Lumens:	1025.87
Efficacy:	39.41
Color Redering Index:	94.1
Correlated Color Temperature:	3221
Input Voltage (VAC/60Hz):	120.02
Input Current (Amp):	0.2185
Input Power (W):	26.03
Input Power Factor:	0.9929
Current ATHD (%):	9.0%

Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:50
Total Operating Time (Hours):	2:25

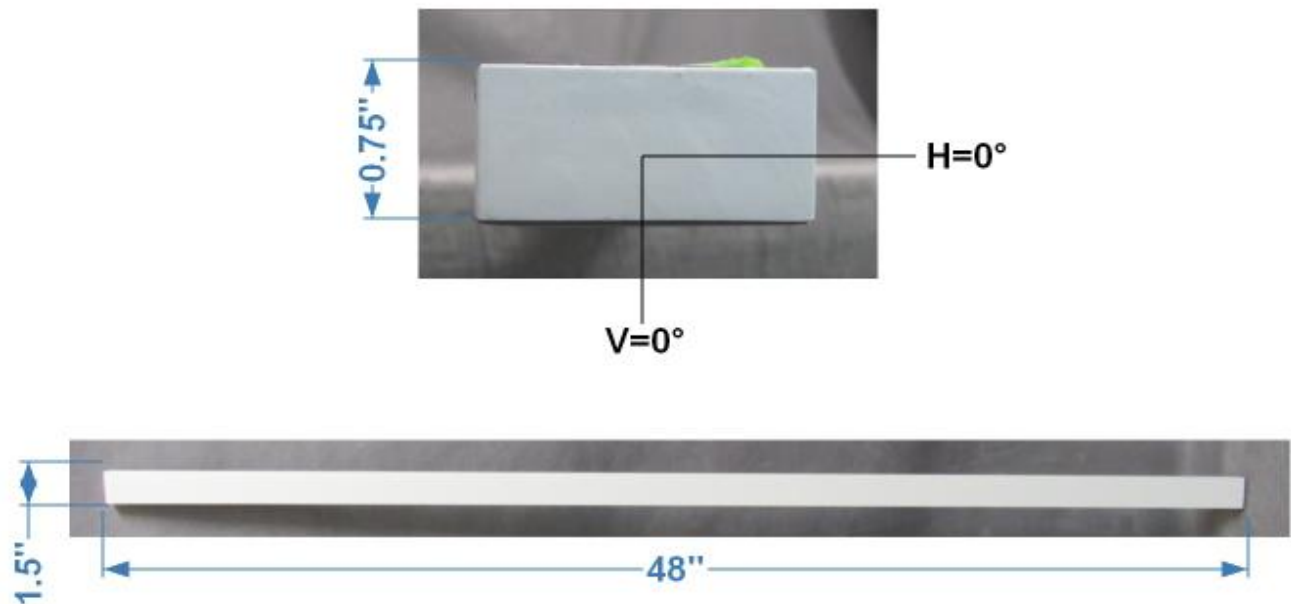
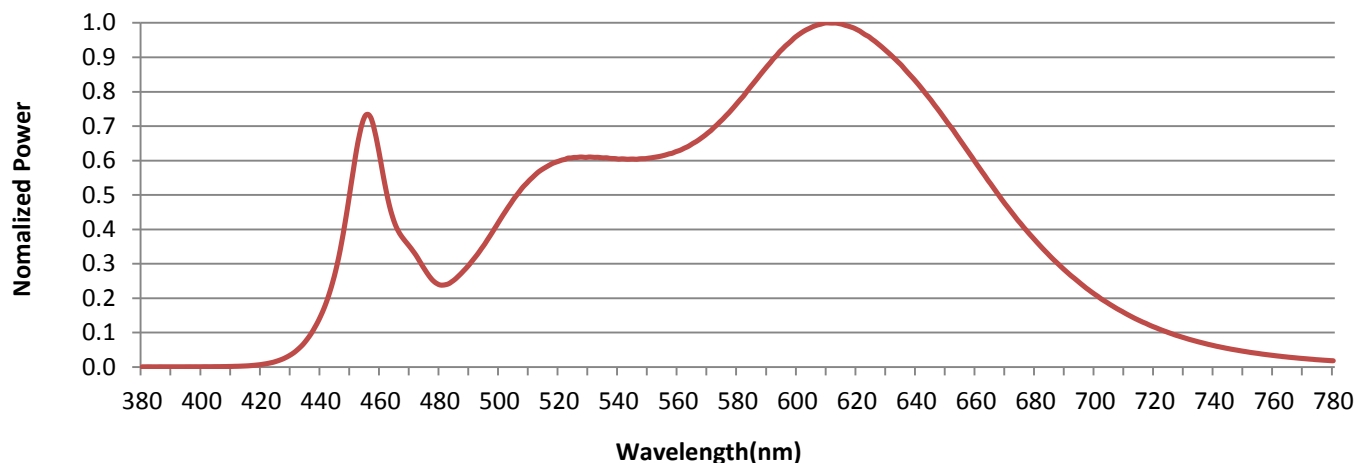


FIG. 1 LUMINAIRE

Colorimetry Test Results

Spectral Power Distribution



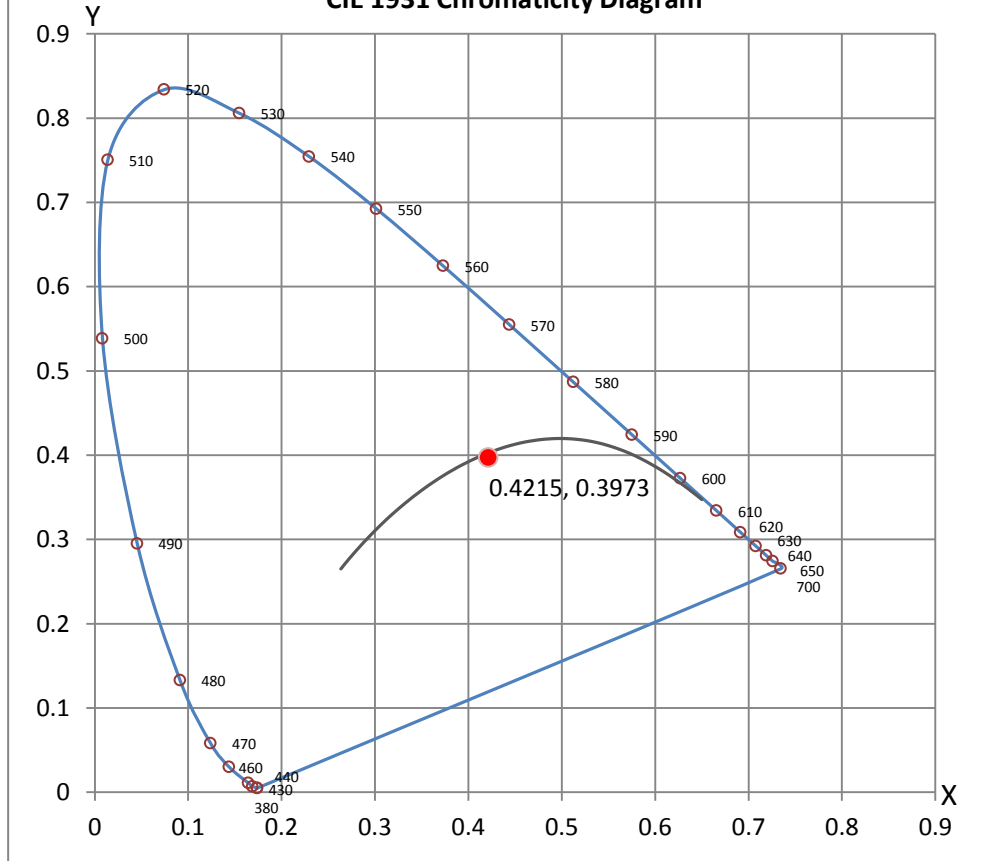
CRI & CCT

x	0.4215
y	0.3973
u'	0.2435
v'	0.5164
CRI	94.10
CCT	3221
Duv	-0.00037

R Values

R1	96.21
R2	99.17
R3	97.64
R4	96.90
R5	96.68
R6	95.65
R7	90.08
R8	80.09
R9	56.01
R10	98.06
R11	97.66
R12	79.89
R13	97.88
R14	99.43
R15	89.75

CIE 1931 Chromaticity Diagram





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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 : Keyur Patel

Test Report Reviewed by:

Steve Kang
Quality Assurance

**Attached are photometric data reports. Total number of pages: 13*

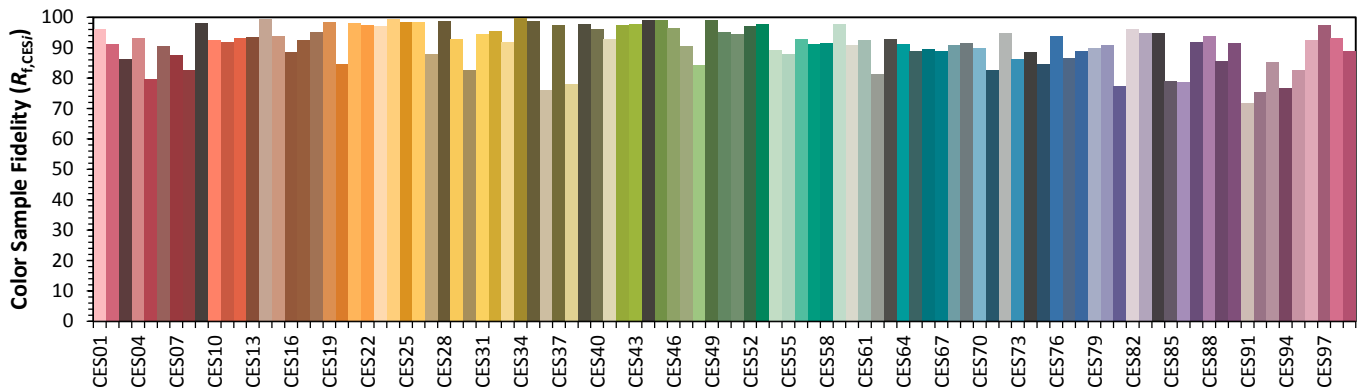
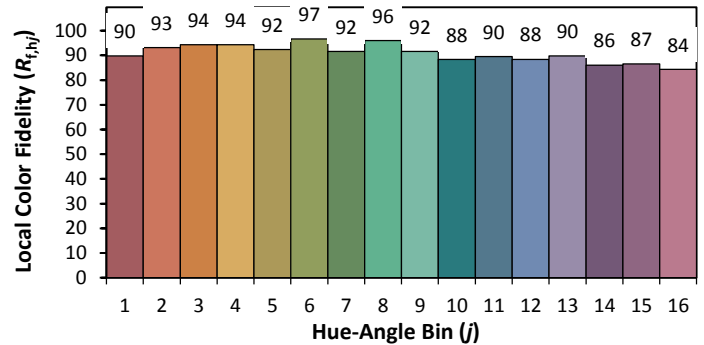
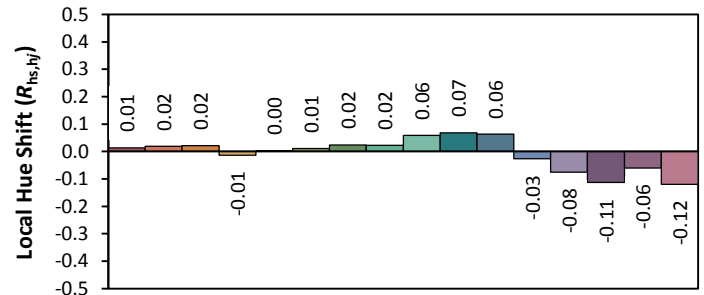
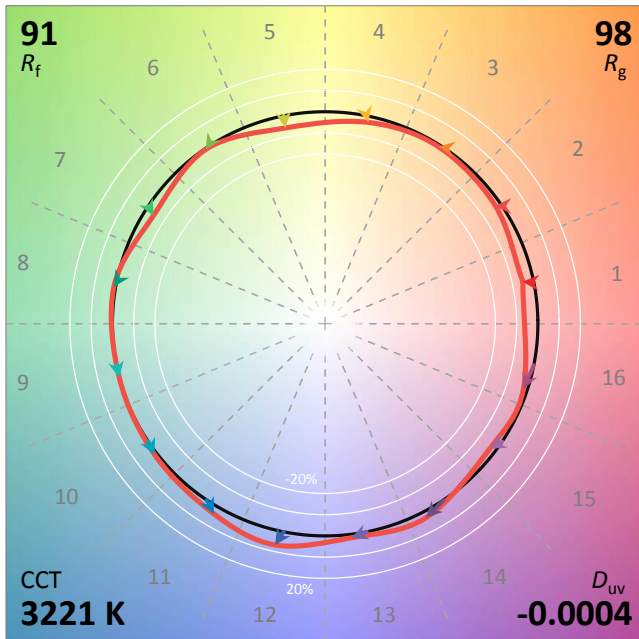
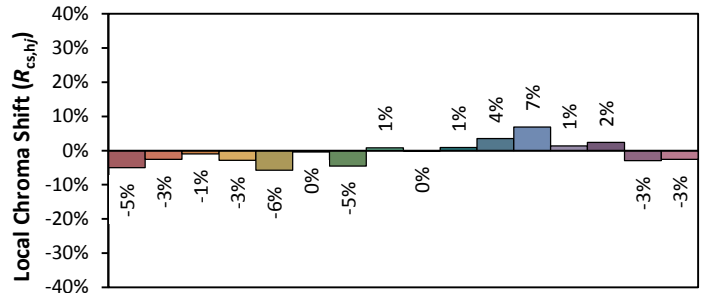
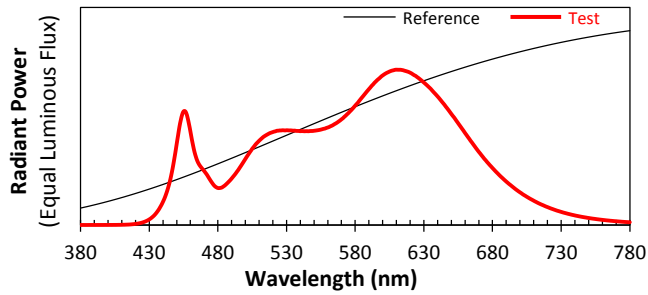
ANSI/IES TM-30-18 Color Rendition Report

Source: LED Luminaire

Manufacturer: Vode Lighting

Date: 9/8/2020

Model: 707-Z2-48-Z-SO-359-FA-WH



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4215

y 0.3973

u' 0.2435

v' 0.5164

CIE 13.3-1995
(CRI)

R_a 94

R_g 56



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

Photometric Test Report

IES INDOOR REPORT

PHOTOMETRIC FILENAME : L082011214.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L082011214
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 9/8/2020
[MANUFAC] Vode Lighting
[LUMCAT] 707-Z2-48-Z-SO-359-FA-WH
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,
[MORE] square 3519, single side diffuse lens, standard output
[BALLASTCAT] MEAN WELL HLG-40H-36A(700mA)
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120.02VAC, 26.03W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1026
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	39
Total Luminaire Watts	26.03
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Vertical Rectangle
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.05 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	81	281
55	0	78	199
65	0	77	134
75	0	86	108
85	0	83	45

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32
5	0.84	0.84	0.84	0.84	0.84	0.92	0.92	1.01	1.01	1.01
10	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.84
15	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.67
20	0.34	0.34	0.42	0.42	0.42	0.42	0.42	0.42	0.50	0.50
25	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.42	0.42	0.42
30	0.67	0.67	0.67	0.59	0.59	0.59	0.59	0.50	0.50	0.50
35	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.59	0.59	0.59
40	0.84	0.84	0.84	0.84	0.84	0.75	0.75	0.75	0.67	0.59
45	1.01	1.01	1.01	0.92	0.92	0.92	0.84	0.75	0.75	0.75
50	1.17	1.09	1.09	1.01	1.01	1.01	0.92	0.92	0.84	0.75
55	1.17	1.17	1.17	1.17	1.17	1.09	1.09	0.92	0.92	0.84
60	1.34	1.34	1.34	1.26	1.26	1.17	1.09	1.09	0.92	0.92
65	1.34	1.34	1.34	1.34	1.34	1.26	1.17	1.09	1.09	0.92
70	1.51	1.51	1.43	1.43	1.34	1.34	1.26	1.17	1.09	1.09
75	1.51	1.51	1.51	1.51	1.43	1.43	1.34	1.26	1.09	1.09
80	1.68	1.59	1.59	1.51	1.51	1.43	1.43	1.26	1.26	1.09
85	1.68	1.68	1.68	1.59	1.51	1.51	1.43	1.26	1.26	1.09
90	1.68	1.68	1.68	1.68	1.59	1.51	1.43	1.43	1.26	1.17
95	1.68	1.68	1.76	1.76	1.68	1.59	1.59	1.43	1.34	1.26
100	2.01	2.01	1.93	1.93	1.93	1.84	1.84	1.68	1.59	1.43
105	2.18	2.18	2.10	2.10	2.18	2.10	2.01	1.84	1.68	1.68
110	2.35	2.35	2.26	2.26	2.26	2.18	2.10	2.01	1.93	1.76
115	2.68	2.60	2.43	2.52	2.52	2.43	2.35	2.18	2.10	2.01
120	2.85	2.77	2.68	2.68	2.60	2.60	2.52	2.26	2.26	2.18
125	3.02	2.93	2.85	2.77	2.77	2.68	2.68	2.43	2.43	2.35
130	3.02	3.02	2.93	2.85	2.85	2.85	2.85	2.60	2.35	2.35
135	3.02	3.19	3.02	2.93	3.02	3.02	2.77	2.52	2.52	2.52
140	3.19	3.19	3.19	3.10	3.19	2.85	2.85	2.60	2.68	2.68
145	3.35	3.35	3.35	3.27	2.85	3.02	2.93	2.77	2.77	2.93
150	3.35	3.44	3.52	3.10	3.10	3.10	3.10	3.02	3.19	3.27
155	3.52	3.52	3.44	3.19	3.19	3.19	3.52	3.44	3.35	3.27
160	3.52	3.52	3.10	3.27	3.27	3.69	3.69	3.27	3.35	3.27
165	3.35	2.93	2.93	3.19	3.77	3.86	3.69	3.44	3.35	3.35
170	3.35	2.85	2.93	3.60	3.69	3.77	3.69	3.60	3.60	3.77
175	2.35	3.19	3.86	4.36	4.53	4.61	4.78	4.78	5.28	5.70
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90	95
0	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32
5	1.17	1.26	1.43	1.59	1.93	2.35	3.10	3.94	4.95	6.20
10	0.84	0.84	0.84	1.01	1.01	1.26	1.76	2.85	4.86	7.63
15	0.67	0.67	0.75	0.84	0.84	1.01	1.17	2.01	4.86	9.14
20	0.50	0.59	0.67	0.67	0.75	0.84	1.01	1.51	4.61	10.73
25	0.42	0.50	0.50	0.59	0.67	0.75	0.84	1.17	4.53	12.15
30	0.42	0.42	0.42	0.50	0.59	0.67	0.75	1.01	4.28	13.50
35	0.50	0.50	0.42	0.42	0.50	0.59	0.67	0.84	4.19	14.75
40	0.59	0.59	0.50	0.42	0.42	0.50	0.67	0.75	3.94	15.93
45	0.59	0.59	0.59	0.50	0.42	0.50	0.59	0.67	3.69	17.02
50	0.75	0.59	0.59	0.59	0.42	0.42	0.50	0.67	3.27	18.36
55	0.75	0.75	0.59	0.59	0.42	0.42	0.50	0.59	3.02	18.69
60	0.75	0.75	0.59	0.59	0.59	0.42	0.42	0.50	2.60	19.45

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PHOTOMETRIC FILENAME : L082011214.IES

CANDELA TABULATION - (Cont.)

65	0.92	0.75	0.75	0.59	0.59	0.42	0.42	0.50	2.26	20.03
70	0.92	0.84	0.75	0.59	0.59	0.42	0.42	0.42	2.35	20.37
75	0.92	0.92	0.75	0.67	0.59	0.59	0.42	0.42	1.93	20.62
80	1.01	0.92	0.75	0.67	0.59	0.59	0.42	0.42	1.17	20.62
85	1.09	0.92	0.84	0.75	0.59	0.59	0.42	0.42	0.84	21.21
90	1.09	0.92	0.84	0.75	0.59	0.59	0.42	0.42	0.42	20.87
95	1.09	1.01	0.92	0.84	0.67	0.59	0.59	0.42	0.50	20.71
100	1.34	1.17	1.09	0.92	0.84	0.67	0.59	0.59	0.84	20.79
105	1.51	1.34	1.26	1.09	0.92	0.84	0.75	0.75	1.26	18.19
110	1.76	1.59	1.43	1.26	1.17	1.09	1.09	1.09	1.84	16.01
115	1.93	1.76	1.68	1.59	1.51	1.51	1.59	1.43	2.52	14.08
120	2.10	2.10	2.01	1.93	1.93	1.93	1.84	1.84	3.19	12.24
125	2.18	2.10	2.10	2.10	2.10	2.10	2.10	2.18	3.60	10.39
130	2.26	2.35	2.26	2.26	2.26	2.26	2.18	2.43	4.02	9.64
135	2.52	2.52	2.43	2.43	2.43	2.43	2.35	2.68	4.28	8.97
140	2.68	2.77	2.60	2.52	2.52	2.43	2.52	3.19	4.61	8.38
145	3.10	2.85	2.77	2.68	2.60	2.60	2.85	3.69	4.95	7.63
150	3.19	3.10	3.02	2.85	2.93	3.02	3.35	4.69	5.78	7.88
155	3.27	3.19	3.19	3.10	3.02	3.35	4.28	5.70	6.54	8.13
160	3.27	3.27	3.19	3.27	3.44	3.94	5.20	6.45	7.13	8.22
165	3.27	3.35	3.44	3.69	4.19	5.11	6.29	7.13	7.71	8.22
170	3.86	4.02	4.44	5.03	5.78	6.62	7.38	7.96	8.30	8.55
175	5.95	6.37	6.79	7.29	7.71	8.13	8.47	8.72	8.89	9.14
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	100	105	110	115	120	125	130	135	140	145
0	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32
5	7.38	8.63	9.98	11.15	12.41	13.50	14.84	15.84	16.77	17.60
10	10.56	13.41	16.35	18.86	21.54	24.06	26.82	29.09	31.18	33.03
15	13.66	18.11	22.38	26.49	30.76	35.37	39.23	43.09	46.52	49.54
20	16.77	22.63	28.50	34.12	40.15	45.68	52.31	57.67	62.62	67.14
25	19.53	26.99	34.62	42.00	49.88	58.68	65.97	73.10	79.55	85.75
30	22.55	31.52	40.82	50.04	59.85	70.66	79.97	89.02	97.32	105.45
35	25.32	35.88	47.03	58.17	69.99	81.14	94.47	105.54	115.76	125.90
40	28.00	40.24	53.23	66.31	80.14	93.30	109.47	122.38	134.62	146.61
45	30.60	44.34	59.26	74.10	90.20	105.45	124.14	139.32	153.65	167.82
50	32.86	48.28	64.96	81.65	99.92	117.10	138.56	155.91	172.51	189.02
55	34.96	51.97	70.16	88.77	109.73	131.94	152.31	171.67	190.36	209.23
60	36.55	55.41	75.36	98.16	121.13	142.92	164.63	186.93	208.30	228.17
65	38.14	58.34	79.72	101.68	128.84	152.73	176.28	200.42	223.81	245.69
70	39.40	60.77	84.58	106.37	131.77	160.69	185.67	212.08	236.38	259.60
75	40.40	62.78	86.42	110.56	137.22	162.70	193.63	221.55	247.03	271.42
80	41.91	65.05	88.77	113.83	145.69	172.59	199.92	227.83	254.83	280.14
85	42.33	66.05	90.20	116.01	144.18	171.17	203.94	232.28	259.02	285.51
90	42.33	66.39	90.87	117.69	144.43	175.44	205.45	234.04	261.03	287.35
95	42.33	65.55	91.62	117.77	144.51	176.70	204.62	234.04	260.53	286.85
100	42.25	65.38	90.36	117.02	143.51	176.11	204.53	231.77	257.93	283.58
105	42.08	64.71	89.36	114.50	142.08	173.10	200.00	227.16	252.56	278.30
110	40.49	63.79	87.51	112.07	138.73	163.79	194.56	221.55	245.86	268.82
115	36.55	62.87	86.09	108.72	134.20	159.27	187.35	212.91	235.80	257.68
120	31.35	59.43	81.90	104.53	128.75	156.00	179.05	202.35	224.57	244.77
125	27.58	50.13	73.93	94.89	117.77	140.15	167.65	190.03	210.57	229.18
130	23.81	40.91	64.88	84.83	105.37	128.75	149.29	171.17	193.05	211.66
135	20.29	35.88	51.47	74.35	93.13	110.40	131.69	150.13	168.49	187.85

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PHOTOMETRIC FILENAME : L082011214.IES

CANDELA TABULATION - (Cont.)

140	17.52	30.01	42.42	58.43	80.47	96.73	114.59	130.26	145.52	161.36
145	15.34	24.06	35.63	46.27	61.86	82.82	97.07	111.91	123.56	136.38
150	14.59	21.88	29.59	39.98	49.54	60.19	79.88	94.81	104.28	112.41
155	13.33	19.95	26.32	32.52	41.49	49.62	58.51	69.16	79.88	88.60
160	11.99	17.35	22.80	28.17	32.94	38.22	44.18	50.55	59.43	63.20
165	10.48	14.17	18.86	22.80	26.57	30.76	33.45	38.64	41.83	45.85
170	9.47	11.48	14.00	17.18	20.03	22.55	24.73	27.49	29.59	31.60
175	9.22	9.56	10.39	11.40	12.66	14.00	15.26	17.02	17.94	18.69
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.
Angles**

Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	5.32	5.32	5.32	5.32	5.32	5.32	5.32
5	18.19	18.86	19.36	19.78	20.03	20.20	20.12
10	34.70	36.04	37.30	38.31	38.89	39.31	39.40
15	52.22	54.74	56.75	58.34	59.52	60.10	60.35
20	71.17	74.77	77.71	80.05	81.65	82.73	82.99
25	91.28	95.98	100.00	103.19	105.45	106.88	107.30
30	112.49	118.53	123.72	127.92	130.77	132.69	133.28
35	134.54	142.08	148.54	153.82	157.51	159.85	160.78
40	157.34	166.48	174.27	180.81	185.50	188.44	189.11
45	180.47	191.45	200.76	208.55	214.34	217.61	218.95
50	203.36	216.18	227.25	236.47	243.09	247.28	248.62
55	225.57	240.41	252.98	263.63	271.34	276.20	277.96
60	247.03	263.63	278.04	290.20	298.67	304.37	305.96
65	266.39	284.67	300.59	313.75	323.31	329.51	331.61
70	281.90	301.52	318.36	332.45	341.58	347.95	349.71
75	294.06	315.26	333.37	346.19	356.84	363.71	365.64
80	304.28	325.24	342.59	357.09	367.82	374.95	377.04
85	309.73	331.02	348.46	363.29	374.11	380.81	382.74
90	311.91	332.95	350.13	365.14	375.70	382.32	384.75
95	310.82	331.86	348.79	363.46	374.19	380.56	382.91
100	307.22	327.75	343.68	358.26	368.91	375.28	377.38
105	300.51	320.21	335.13	349.88	359.86	366.31	368.16
110	290.62	309.56	325.66	336.22	347.20	353.24	354.91
115	277.46	295.82	311.41	323.56	332.53	337.22	339.15
120	263.88	280.48	294.81	306.21	314.42	319.79	321.38
125	246.69	261.78	274.94	285.09	292.71	297.66	299.08
130	227.50	240.99	252.90	262.12	268.99	273.43	274.61
135	206.79	218.95	229.51	237.64	243.68	247.53	248.62
140	178.13	194.98	204.87	211.91	217.27	220.54	221.46
145	149.63	163.46	178.71	185.34	189.86	192.63	193.47
150	122.80	133.36	145.27	157.84	161.86	164.13	164.80
155	95.81	104.03	113.00	123.56	132.78	134.87	135.46
160	65.97	68.57	74.86	82.65	93.55	98.75	99.25
165	48.95	50.97	51.38	54.57	59.43	69.07	69.74
170	32.61	33.28	32.36	30.18	31.60	36.46	41.74
175	19.11	19.28	19.20	17.94	15.93	15.59	20.12
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6.82	N.A.	0.70
0-30	22.70	N.A.	2.20
0-40	53.70	N.A.	5.20
0-60	177.01	N.A.	17.30
0-80	381.77	N.A.	37.20
0-90	501.27	N.A.	48.90
10-90	500.32	N.A.	48.80
20-40	46.88	N.A.	4.60
20-50	97.45	N.A.	9.50
40-70	217.55	N.A.	21.20
60-80	204.77	N.A.	20.00
70-80	110.53	N.A.	10.80
80-90	119.49	N.A.	11.60
90-110	232.79	N.A.	22.70
90-120	331.38	N.A.	32.30
90-130	410.21	N.A.	40.00
90-150	500.41	N.A.	48.80
90-180	524.60	N.A.	51.10
110-180	291.81	N.A.	28.40
0-180	1025.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.95
10-20	5.88
20-30	15.87
30-40	31.01
40-50	50.57
50-60	72.74
60-70	94.24
70-80	110.53
80-90	119.49
90-100	120.02
100-110	112.77
110-120	98.59
120-130	78.83
130-140	55.85
140-150	34.35
150-160	17.17
160-170	6.01
170-180	1.01

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PHOTOMETRIC FILENAME : L082011214.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	92	85	78	73	83	77	72	67	64	59	55	51	48	45	39	37	35	29
2	81	71	62	55	73	64	57	50	52	46	41	41	37	33	31	28	25	20
3	72	60	51	43	65	55	46	39	44	38	32	35	30	25	26	22	19	14
4	65	52	42	35	59	47	38	32	38	31	26	30	24	20	22	18	14	10
5	60	46	36	29	54	41	33	26	33	26	21	26	21	16	19	15	12	8
6	54	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	10	6
7	50	36	27	20	45	33	24	19	26	20	15	21	15	11	15	11	8	5
8	46	32	24	18	42	29	22	16	24	17	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	8	13	9	6	3
10	40	27	19	13	36	24	17	12	20	14	10	16	11	7	12	8	5	3

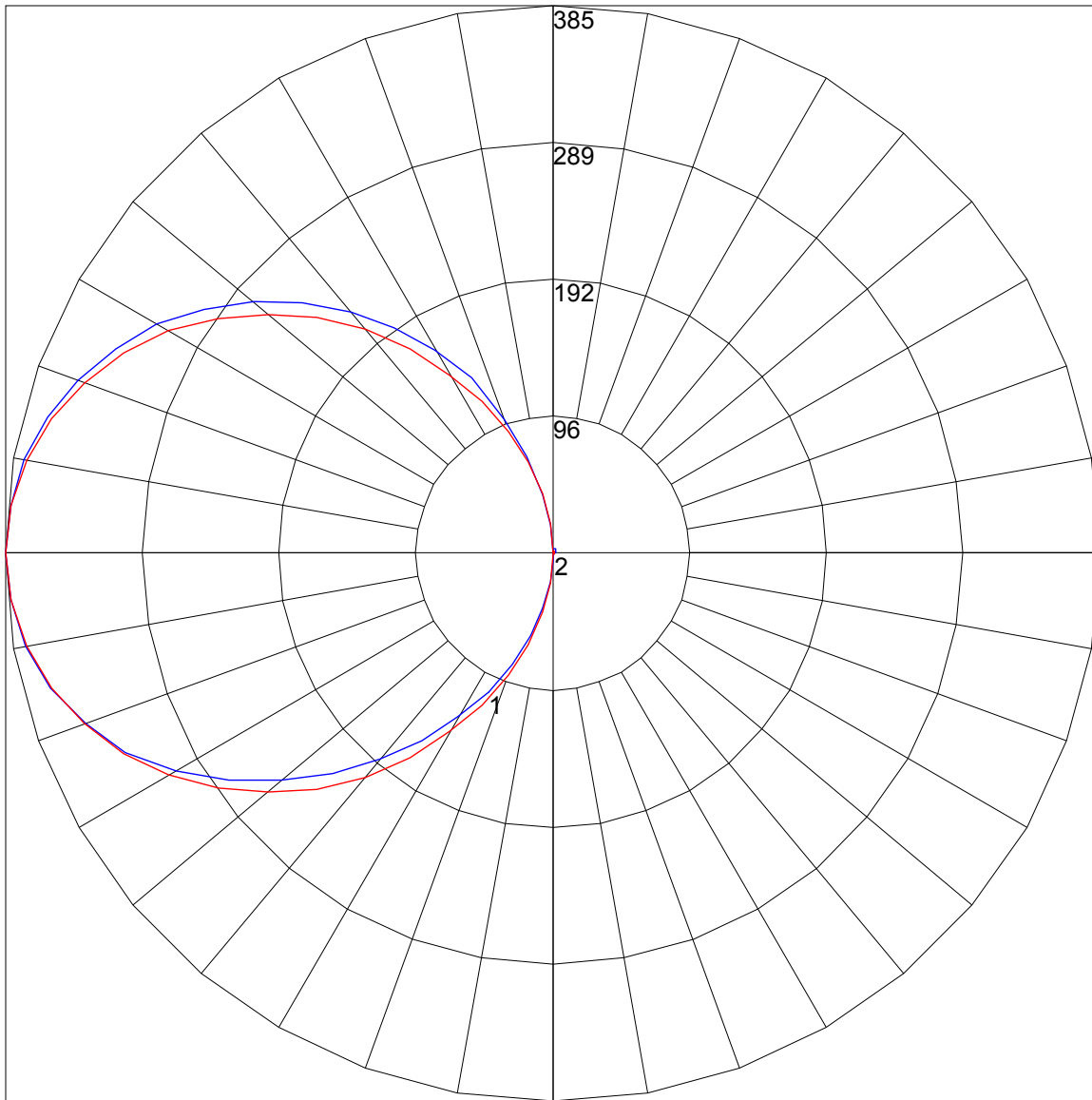
IES INDOOR REPORT
PHOTOMETRIC FILENAME : L082011214.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size											
		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	0.1	0.1	0.1	0.1	0.1	10.2	11.2	11.1	12.2	13.5
	3H	0.1	0.1	0.1	0.1	0.1	11.4	12.4	12.4	13.4	14.7
	4H	0.1	0.1	0.1	0.1	0.1	11.8	12.8	12.8	13.7	15.0
	6H	0.1	0.1	0.1	0.1	0.7	12.1	12.9	13.0	13.9	15.2
	8H	0.1	0.1	0.1	0.7	2.0	12.1	13.0	13.1	14.0	15.3
	12H	0.4	1.2	1.3	2.2	3.5	12.1	12.9	13.1	13.9	15.3
4H	2H	0.1	0.1	0.1	0.1	0.1	15.6	16.5	16.6	17.5	18.8
	3H	0.1	0.1	0.1	0.1	0.1	17.2	18.0	18.2	19.1	20.4
	4H	0.1	0.1	0.1	0.1	0.1	17.8	18.6	18.8	19.6	20.9
	6H	0.1	0.1	0.1	0.1	0.9	18.2	18.9	19.2	19.9	21.2
	8H	0.1	0.1	0.3	1.0	2.3	18.3	18.9	19.3	20.0	21.3
	12H	0.9	1.5	1.9	2.5	3.9	18.4	18.9	19.4	20.0	21.3
8H	4H	0.1	0.1	0.1	0.1	0.1	21.2	21.8	22.2	22.8	24.2
	6H	0.1	0.1	0.1	0.1	1.0	21.9	22.5	22.9	23.5	24.9
	8H	0.1	0.1	0.5	1.0	2.4	22.2	22.7	23.2	23.7	25.1
	12H	1.2	1.6	2.2	2.7	4.1	22.3	22.8	23.4	23.8	25.2
12H	4H	0.1	0.1	0.1	0.1	0.1	22.2	22.8	23.2	23.9	25.2
	6H	0.1	0.1	0.1	0.1	0.9	23.2	23.7	24.2	24.8	26.1
	8H	0.1	0.1	0.5	1.0	2.4	23.6	24.1	24.7	25.1	26.5

Maximum UGR = 26.5

POLAR GRAPH



Maximum Candela = 384.75 Located At Horizontal Angle = 180, Vertical Angle = 90
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)