



## IES Report

# ZipTwo® | 707 | 40° Symmetric | 90 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-359-S1-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	45	47	48	48
Total Lumens, 4' rail length (1219mm)	666	687	701	708
Lumens per foot (305mm)	167	172	175	177
Input Power (W), 4' rail length (1219mm)	14.9	14.9	14.9	14.9
Watts per foot (305mm)	3.8	3.8	3.8	3.8
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](#).



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_359\_S1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911523 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-LO-359-S1-AL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, 40° white symmetric lens,

[MORE] low output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	701
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.72
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.01 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23022	39167	79480
55	17430	26145	52054
65	15024	20139	37082
75	13050	16181	26621
85	10851	12401	15501

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0.0</b>	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
<b>1.0</b>	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
<b>3.0</b>	584.5	584.5	585.0	585.0	585.0	585.0	585.5	585.5	586.5	586.5
<b>5.0</b>	573.5	573.5	573.5	574.0	575.0	575.5	576.5	577.5	578.5	579.5
<b>7.0</b>	557.0	557.0	557.0	558.5	559.5	561.0	563.0	565.5	567.5	570.0
<b>9.0</b>	533.0	533.5	534.5	536.0	538.5	541.0	544.5	548.0	552.0	556.0
<b>11.0</b>	505.0	505.0	507.0	509.0	512.5	516.5	521.5	527.0	532.5	538.5
<b>13.0</b>	471.5	472.5	474.5	477.5	482.0	487.5	494.0	501.5	509.0	517.0
<b>15.0</b>	436.0	436.5	439.0	443.0	448.5	456.0	463.5	473.0	483.0	493.5
<b>17.0</b>	398.0	399.0	401.5	406.5	413.5	421.5	431.5	442.0	454.0	466.5
<b>19.5</b>	348.5	349.5	353.0	359.0	366.5	376.5	388.0	400.5	415.0	430.0
<b>22.5</b>	291.0	292.0	296.0	302.0	310.5	321.5	334.5	349.5	365.5	383.5
<b>25.5</b>	237.5	239.0	242.5	248.5	257.5	269.0	282.0	298.5	316.5	336.0
<b>29.0</b>	183.5	184.5	188.0	194.0	202.5	213.5	226.5	242.0	260.5	280.5
<b>33.0</b>	134.5	135.5	138.5	143.5	150.5	160.5	172.0	186.0	202.5	221.5
<b>37.5</b>	96.0	96.5	99.0	103.0	108.5	115.5	125.0	136.5	150.0	166.5
<b>42.5</b>	68.5	69.0	70.5	73.5	77.0	82.0	88.5	97.0	107.0	119.0
<b>47.5</b>	52.0	52.5	53.5	55.0	57.5	61.0	65.5	70.5	77.5	86.0
<b>55.0</b>	37.0	37.0	37.5	38.5	40.0	41.5	44.0	47.0	51.0	55.5
<b>65.0</b>	23.5	23.5	23.5	24.0	25.0	25.5	26.5	28.0	29.5	31.5
<b>75.0</b>	12.5	12.5	12.5	13.0	13.0	13.5	13.5	14.0	15.0	15.5
<b>85.0</b>	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.0
<b>90.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Vert. Angles**      **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
<b>0.0</b>	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
<b>1.0</b>	589.0	589.0	589.0	589.0	589.5	589.0	589.0	589.0	588.5
<b>3.0</b>	587.0	587.0	587.5	587.5	587.5	587.5	588.5	588.0	588.0
<b>5.0</b>	581.0	582.0	583.0	584.0	585.0	585.5	586.0	586.5	586.5
<b>7.0</b>	572.0	574.5	577.0	579.0	580.5	582.0	583.0	583.5	583.5
<b>9.0</b>	560.0	564.0	567.5	571.0	574.0	576.0	578.0	579.5	580.0
<b>11.0</b>	544.0	550.5	556.0	561.0	565.0	569.0	571.5	572.5	573.5
<b>13.0</b>	525.0	533.5	541.0	548.5	554.0	559.5	563.0	565.5	565.5
<b>15.0</b>	504.0	514.5	524.5	533.5	541.5	548.0	553.0	556.0	557.0
<b>17.0</b>	479.5	492.5	505.0	516.5	526.5	534.5	540.5	544.5	545.5
<b>19.5</b>	446.0	462.0	477.5	492.0	504.5	515.0	523.0	527.5	528.5
<b>22.5</b>	403.0	421.5	440.5	458.0	473.0	486.5	496.5	502.5	503.5
<b>25.5</b>	357.0	378.5	399.5	420.0	438.0	453.0	465.5	472.5	474.5
<b>29.0</b>	302.5	326.0	348.5	371.0	391.5	409.5	422.0	430.5	433.0
<b>33.0</b>	243.0	266.0	289.5	313.5	334.5	353.0	367.0	376.0	379.0
<b>37.5</b>	184.5	205.0	226.5	248.5	268.5	286.5	300.0	309.0	311.5
<b>42.5</b>	133.0	149.0	166.0	184.5	201.5	216.5	228.5	236.0	239.0
<b>47.5</b>	96.0	107.5	120.0	133.5	146.5	159.0	168.0	174.5	177.0
<b>55.0</b>	61.0	67.5	75.0	82.5	91.0	98.5	105.0	109.0	110.5
<b>65.0</b>	34.0	37.0	40.0	44.0	47.5	51.5	55.0	57.0	58.0
<b>75.0</b>	16.5	17.5	19.0	20.5	22.0	23.5	24.5	25.5	25.5
<b>85.0</b>	4.0	4.0	4.5	4.5	4.5	5.0	5.0	5.0	5.0
<b>90.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	184.11	N.A.	26.30
0-30	338.34	N.A.	48.20
0-40	459.09	N.A.	65.50
0-60	614.06	N.A.	87.60
0-80	688.74	N.A.	98.20
0-90	701.33	N.A.	100.00
10-90	656.98	N.A.	93.70
20-40	274.98	N.A.	39.20
20-50	377.37	N.A.	53.80
40-70	202.37	N.A.	28.90
60-80	74.68	N.A.	10.60
70-80	27.28	N.A.	3.90
80-90	12.59	N.A.	1.80
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	701.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	44.35
10-20	139.76
20-30	154.23
30-40	120.75
40-50	102.38
50-60	52.59
60-70	47.40
70-80	27.28
80-90	12.59
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

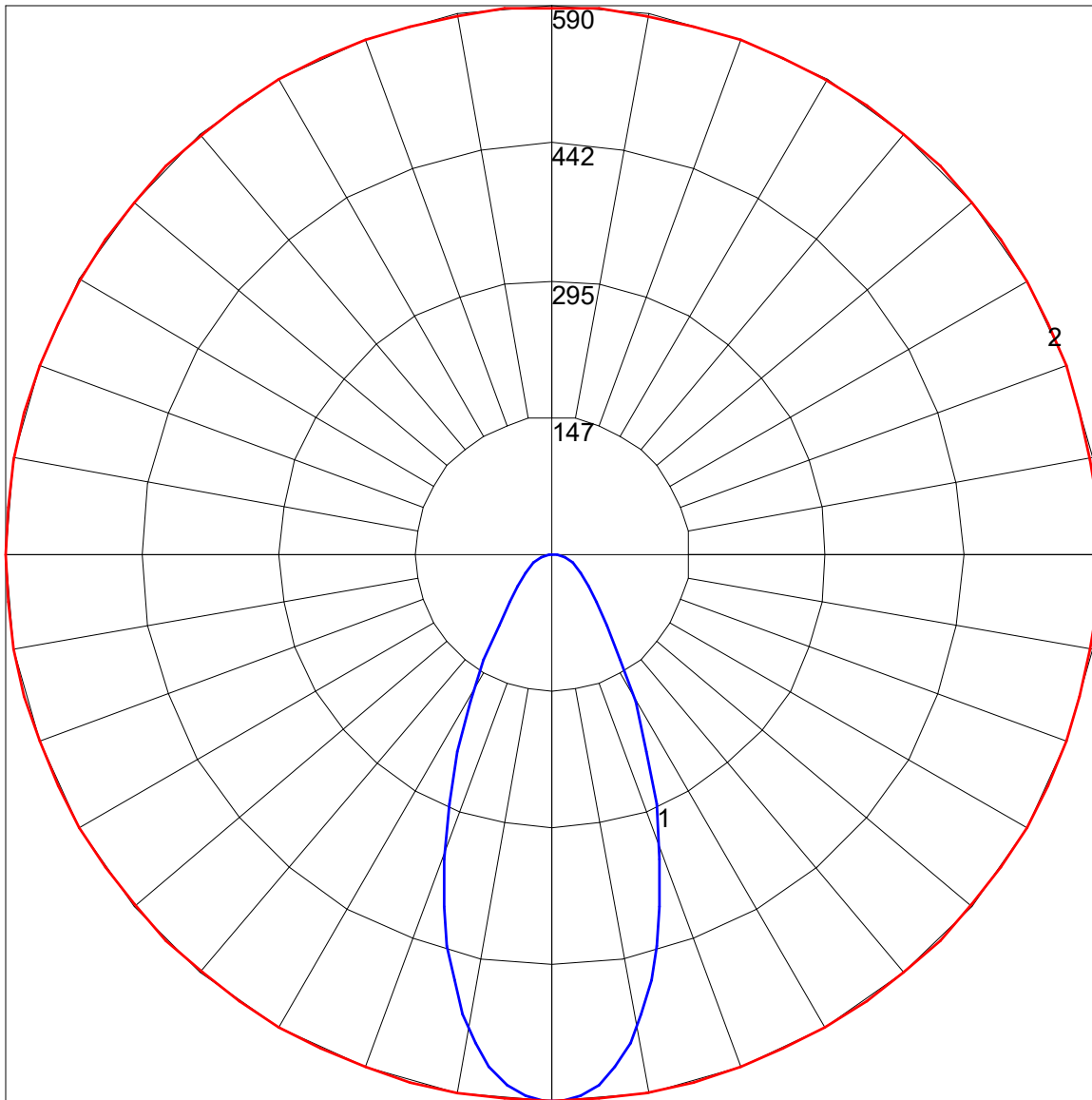
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	52	51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43
9	65	54	47	42	64	53	46	42	52	46	42	51	45	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

POLAR GRAPH



Maximum Candela = 589.5 Located At Horizontal Angle = 70, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)