



## IES Report

# ZipTwo® | 707 | 120° Symmetric | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-S3-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	112	116	118	119
Total Lumens, 4' rail length (1219mm)	4418	4558	4651	4697
Lumens per foot (305mm)	1105	1139	1163	1174
Input Power (W), 4' rail length (1219mm)	39.6	39.6	39.6	39.6
Watts per foot (305mm)	9.9	9.9	9.9	9.9
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\_HO\_359\_S3.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911526 (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-HO-359-S3-AL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, 120° white symmetric lens,

[MORE] high 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	4651
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.66
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.56
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.07 ft
Luminous Width (90-270)	3.97 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	77902	67969	46626
55	71244	64565	44932
65	56037	53840	41341
75	36332	36332	31846
85	22644	20646	16650

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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</b>	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5
<b>5</b>	1435.5	1435.5	1435.5	1434.0	1434.0	1432.5	1429.5	1429.5	1426.5	1425.0
<b>10</b>	1480.5	1480.5	1477.5	1473.0	1470.0	1464.0	1458.0	1450.5	1443.0	1435.5
<b>15</b>	1546.5	1545.0	1542.0	1534.5	1524.0	1512.0	1498.5	1482.0	1465.5	1447.5
<b>20</b>	1615.5	1614.0	1606.5	1596.0	1582.5	1563.0	1540.5	1515.0	1488.0	1458.0
<b>25</b>	1663.5	1660.5	1653.0	1641.0	1621.5	1597.5	1570.5	1537.5	1500.0	1461.0
<b>30</b>	1671.0	1669.5	1662.0	1648.5	1630.5	1605.0	1573.5	1537.5	1494.0	1446.0
<b>35</b>	1635.0	1633.5	1626.0	1614.0	1596.0	1572.0	1542.0	1504.5	1459.5	1408.5
<b>40</b>	1551.0	1549.5	1543.5	1533.0	1519.5	1498.5	1471.5	1437.0	1392.0	1341.0
<b>45</b>	1423.5	1422.0	1417.5	1410.0	1399.5	1383.0	1360.5	1330.5	1291.5	1242.0
<b>50</b>	1255.5	1255.5	1254.0	1249.5	1242.0	1230.0	1213.5	1189.5	1156.5	1113.0
<b>55</b>	1056.0	1056.0	1054.5	1054.5	1050.0	1044.0	1033.5	1017.0	991.5	957.0
<b>60</b>	835.5	835.5	837.0	837.0	837.0	835.5	829.5	819.0	802.5	778.5
<b>65</b>	612.0	612.0	613.5	615.0	618.0	618.0	616.5	612.0	603.0	588.0
<b>70</b>	406.5	408.0	409.5	411.0	412.5	415.5	415.5	414.0	409.5	402.0
<b>75</b>	243.0	244.5	244.5	246.0	247.5	247.5	249.0	247.5	246.0	243.0
<b>80</b>	129.0	129.0	129.0	130.5	130.5	130.5	130.5	129.0	127.5	126.0
<b>85</b>	51.0	51.0	51.0	51.0	51.0	51.0	49.5	49.5	48.0	46.5
<b>90</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Vert. 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</b>	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5
<b>5</b>	1425.0	1422.0	1420.5	1419.0	1417.5	1417.5	1416.0	1416.0	1416.0
<b>10</b>	1426.5	1419.0	1411.5	1405.5	1398.0	1395.0	1390.5	1389.0	1387.5
<b>15</b>	1428.0	1411.5	1395.0	1380.0	1366.5	1356.0	1348.5	1344.0	1342.5
<b>20</b>	1428.0	1398.0	1369.5	1344.0	1321.5	1303.5	1290.0	1282.5	1279.5
<b>25</b>	1417.5	1375.5	1335.0	1296.0	1266.0	1239.0	1219.5	1209.0	1204.5
<b>30</b>	1393.5	1341.0	1288.5	1239.0	1198.5	1164.0	1140.0	1126.5	1122.0
<b>35</b>	1348.5	1288.5	1228.5	1170.0	1122.0	1083.0	1054.5	1038.0	1033.5
<b>40</b>	1281.0	1216.5	1152.0	1090.5	1038.0	996.0	966.0	949.5	943.5
<b>45</b>	1185.0	1122.0	1057.5	996.0	945.0	903.0	874.5	858.0	852.0
<b>50</b>	1062.0	1005.0	945.0	889.5	843.0	805.5	780.0	765.0	760.5
<b>55</b>	913.5	865.5	816.0	769.5	732.0	702.0	681.0	669.0	666.0
<b>60</b>	745.5	709.5	672.0	637.5	610.5	589.5	574.5	565.5	562.5
<b>65</b>	567.0	544.5	520.5	499.5	481.5	468.0	459.0	454.5	451.5
<b>70</b>	391.5	379.5	367.5	357.0	348.0	340.5	336.0	334.5	333.0
<b>75</b>	238.5	232.5	228.0	222.0	219.0	216.0	214.5	213.0	213.0
<b>80</b>	123.0	120.0	118.5	115.5	114.0	112.5	111.0	111.0	111.0
<b>85</b>	45.0	43.5	42.0	40.5	39.0	39.0	37.5	37.5	37.5
<b>90</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	546.11	N.A.	11.70
0-30	1212.86	N.A.	26.10
0-40	2066.84	N.A.	44.40
0-60	3782.75	N.A.	81.30
0-80	4592.48	N.A.	98.80
0-90	4650.57	N.A.	100.00
10-90	4514.19	N.A.	97.10
20-40	1520.72	N.A.	32.70
20-50	2431.94	N.A.	52.30
40-70	2268.1	N.A.	48.80
60-80	809.74	N.A.	17.40
70-80	257.55	N.A.	5.50
80-90	58.08	N.A.	1.20
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	4650.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	136.38
10-20	409.74
20-30	666.75
30-40	853.98
40-50	911.21
50-60	804.70
60-70	552.19
70-80	257.55
80-90	58.08
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

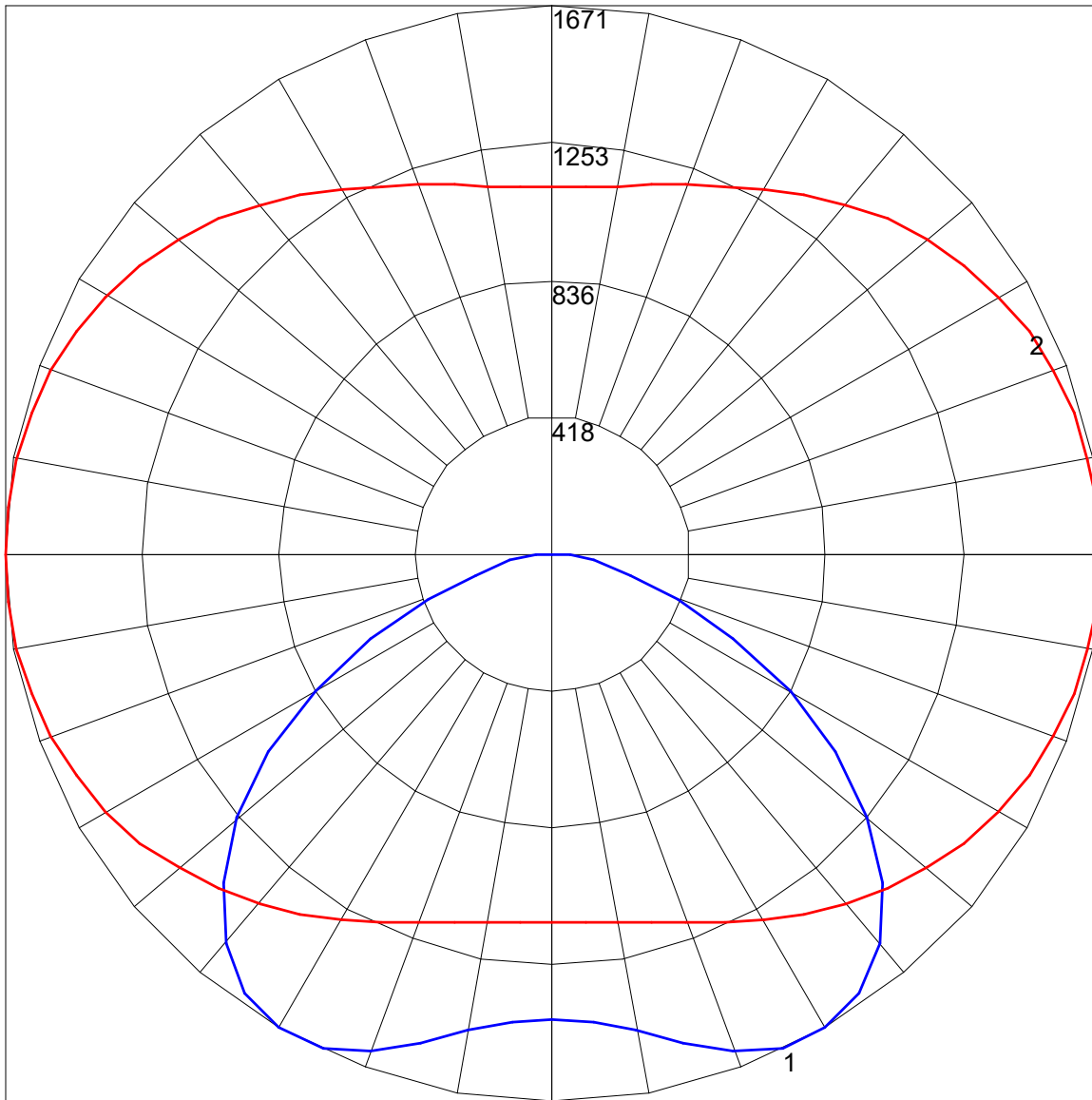
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	104	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

POLAR GRAPH



Maximum Candela = 1671 Located At Horizontal Angle = 0, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)