



#### IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	109	112	115	116
Total Lumens, 4' rail length (1219mm)	4288	4423	4514	4559
Lumens per foot (305mm)	1072	1106	1128	1140
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\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911530 (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-BL

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

[MORE] high output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4514
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.68
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.58
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.07 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	76068	66324	45117
55	69349	62888	43406
65	54116	52061	40004
75	34451	34451	30200
85	19930	18601	15279

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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>	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5
<b>5</b>	1387.5	1387.5	1387.5	1386.0	1386.0	1384.5	1383.0	1381.5	1380.0	1378.5
<b>10</b>	1431.0	1429.5	1428.0	1425.0	1420.5	1414.5	1408.5	1402.5	1395.0	1386.0
<b>15</b>	1498.5	1495.5	1491.0	1485.0	1474.5	1462.5	1449.0	1434.0	1416.0	1399.5
<b>20</b>	1567.5	1566.0	1558.5	1548.0	1534.5	1515.0	1492.5	1467.0	1440.0	1410.0
<b>25</b>	1621.5	1618.5	1611.0	1597.5	1579.5	1555.5	1528.5	1494.0	1455.0	1416.0
<b>30</b>	1635.0	1633.5	1626.0	1612.5	1593.0	1566.0	1536.0	1497.0	1453.5	1405.5
<b>35</b>	1602.0	1600.5	1593.0	1581.0	1563.0	1539.0	1509.0	1471.5	1423.5	1371.0
<b>40</b>	1519.5	1518.0	1513.5	1503.0	1488.0	1468.5	1440.0	1405.5	1360.5	1309.5
<b>45</b>	1393.5	1392.0	1387.5	1381.5	1371.0	1354.5	1333.5	1302.0	1263.0	1215.0
<b>50</b>	1227.0	1227.0	1225.5	1221.0	1213.5	1203.0	1188.0	1162.5	1129.5	1087.5
<b>55</b>	1030.5	1030.5	1029.0	1029.0	1026.0	1020.0	1009.5	993.0	967.5	934.5
<b>60</b>	813.0	813.0	813.0	814.5	814.5	813.0	808.5	798.0	781.5	757.5
<b>65</b>	592.5	592.5	594.0	595.5	598.5	598.5	597.0	594.0	583.5	570.0
<b>70</b>	390.0	391.5	393.0	394.5	396.0	399.0	399.0	397.5	393.0	387.0
<b>75</b>	231.0	231.0	231.0	232.5	234.0	235.5	235.5	235.5	234.0	231.0
<b>80</b>	118.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	118.5	117.0
<b>85</b>	45.0	45.0	45.0	45.0	45.0	45.0	45.0	43.5	43.5	42.0
<b>90</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</b>	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5
<b>5</b>	1377.0	1375.5	1374.0	1372.5	1371.0	1369.5	1369.5	1369.5	1368.0
<b>10</b>	1378.5	1371.0	1365.0	1359.0	1353.0	1348.5	1345.5	1342.5	1342.5
<b>15</b>	1381.5	1363.5	1348.5	1333.5	1321.5	1311.0	1303.5	1300.5	1297.5
<b>20</b>	1380.0	1351.5	1323.0	1299.0	1278.0	1260.0	1248.0	1240.5	1237.5
<b>25</b>	1372.5	1330.5	1291.5	1254.0	1222.5	1198.5	1180.5	1168.5	1165.5
<b>30</b>	1353.0	1299.0	1248.0	1200.0	1159.5	1126.5	1104.0	1089.0	1084.5
<b>35</b>	1312.5	1251.0	1191.0	1135.5	1087.5	1048.5	1021.5	1005.0	999.0
<b>40</b>	1249.5	1185.0	1119.0	1059.0	1006.5	964.5	936.0	918.0	913.5
<b>45</b>	1156.5	1093.5	1029.0	969.0	916.5	876.0	847.5	831.0	826.5
<b>50</b>	1036.5	978.0	919.5	865.5	817.5	781.5	757.5	742.5	736.5
<b>55</b>	891.0	843.0	793.5	748.5	711.0	681.0	661.5	649.5	645.0
<b>60</b>	726.0	690.0	654.0	621.0	592.5	571.5	556.5	549.0	546.0
<b>65</b>	549.0	526.5	504.0	483.0	466.5	453.0	444.0	439.5	438.0
<b>70</b>	376.5	364.5	352.5	342.0	334.5	328.5	324.0	321.0	321.0
<b>75</b>	225.0	220.5	216.0	211.5	207.0	205.5	204.0	202.5	202.5
<b>80</b>	114.0	111.0	109.5	106.5	105.0	103.5	103.5	103.5	103.5
<b>85</b>	40.5	39.0	37.5	36.0	36.0	36.0	34.5	34.5	34.5
<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	528.17	N.A.	11.70
0-30	1175.33	N.A.	26.00
0-40	2007.64	N.A.	44.50
0-60	3681.06	N.A.	81.60
0-80	4460.49	N.A.	98.80
0-90	4513.54	N.A.	100.00
10-90	4381.71	N.A.	97.10
20-40	1479.48	N.A.	32.80
20-50	2368.76	N.A.	52.50
40-70	2208.12	N.A.	48.90
60-80	779.44	N.A.	17.30
70-80	244.73	N.A.	5.40
80-90	53.05	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	4513.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	131.83
10-20	396.33
20-30	647.16
30-40	832.31
40-50	889.28
50-60	784.13
60-70	534.71
70-80	244.73
80-90	53.05
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

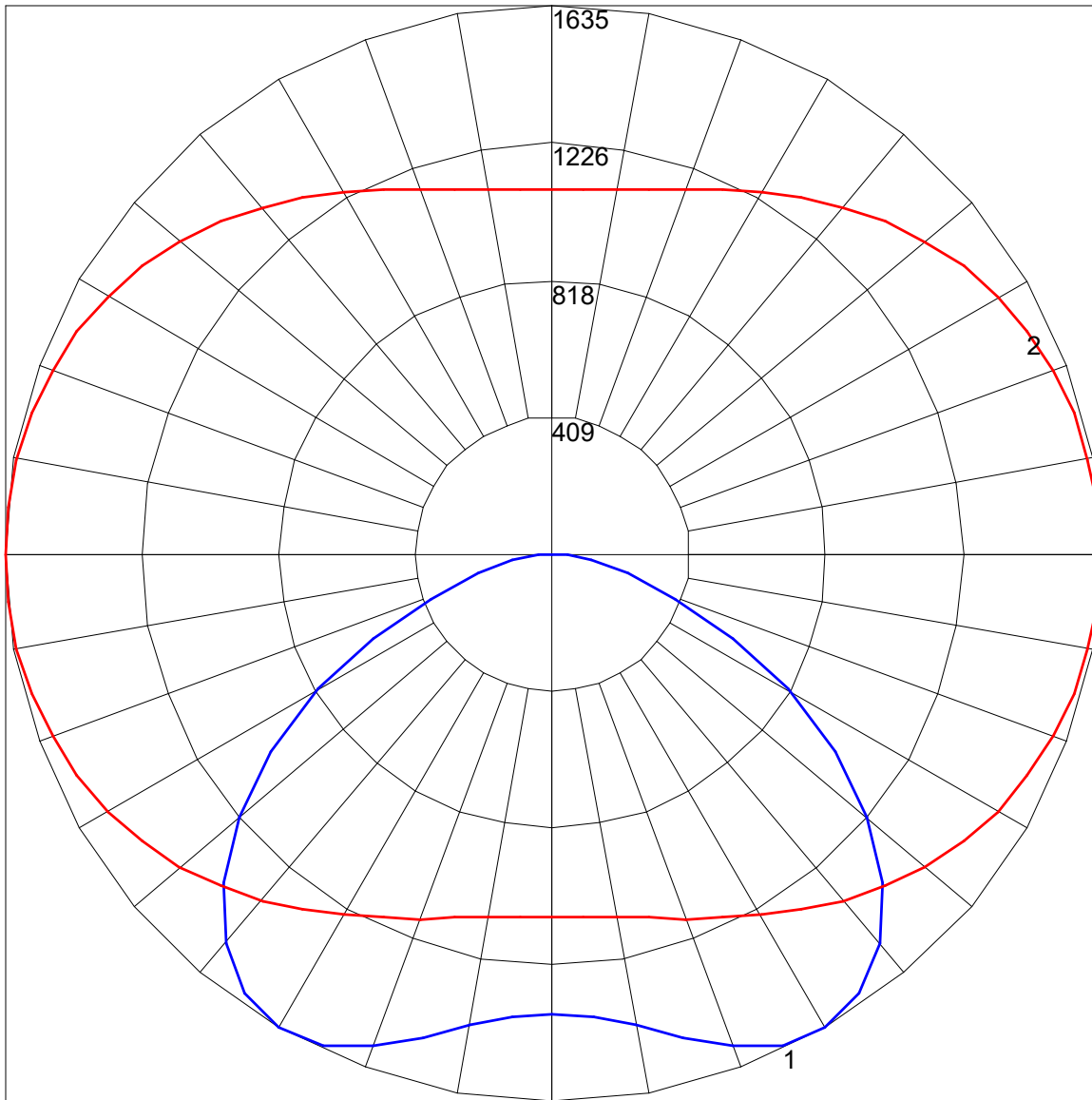
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	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	51
5	76	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	44
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	36	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 = 1635 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.)