

## IES Report

# ZipTwo® | 707 | Micro 3508, 40° Symmetric | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-S1-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	37	38	39	39
Total Lumens, 4' rail length (1219mm)	1435	1481	1511	1526
Lumens per foot (305mm)	359	370	378	382
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\_S1\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911527 (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-S1-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, micro 3508, 40° symmetric black 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	1511
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	38
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.76
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	0.90
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	48645	87492	151705
55	23099	44481	86772
65	13023	24963	50962
75	8534	15550	32023
85	6650	10324	17531

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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>	1371.015	1371.015	1371.015	1371.015	1371.015	1371.015	1371.015	1371.015	1371.015	1371.015
<b>1.0</b>	1372.410	1372.350	1372.410	1372.290	1372.665	1372.410	1372.410	1372.410	1372.470	1372.410
<b>3.0</b>	1364.745	1364.745	1364.610	1364.370	1365.060	1365.240	1365.930	1366.185	1366.500	1367.070
<b>5.0</b>	1341.855	1342.050	1342.290	1343.175	1343.805	1345.380	1347.015	1348.830	1350.600	1352.475
<b>7.0</b>	1306.275	1306.530	1307.655	1309.350	1311.555	1314.075	1317.210	1321.230	1325.130	1329.225
<b>9.0</b>	1259.745	1260.315	1261.950	1264.710	1268.670	1273.140	1278.795	1284.585	1290.870	1297.215
<b>11.0</b>	1203.165	1203.990	1206.180	1210.275	1215.750	1222.275	1229.955	1238.625	1248.375	1257.735
<b>13.0</b>	1139.175	1140.495	1143.690	1148.655	1155.765	1164.510	1174.500	1186.380	1198.395	1211.850
<b>15.0</b>	1067.745	1069.260	1073.415	1079.565	1088.310	1099.935	1112.580	1127.280	1142.760	1159.350
<b>17.0</b>	992.430	992.880	998.220	1006.020	1017.015	1029.900	1044.555	1062.855	1081.965	1101.015
<b>19.5</b>	888.450	890.715	896.565	905.925	918.885	934.275	952.890	973.515	996.330	1020.600
<b>22.5</b>	764.220	766.620	773.400	784.035	798.990	817.605	839.475	863.940	890.715	918.435
<b>25.5</b>	639.990	642.825	650.055	661.560	677.775	698.715	722.610	750.015	780.060	811.440
<b>29.0</b>	503.955	506.595	513.825	525.705	542.865	564.360	589.455	618.750	651.060	684.825
<b>33.0</b>	369.285	371.670	378.720	389.715	405.690	425.865	450.135	478.680	510.930	544.755
<b>37.5</b>	249.465	251.535	257.250	266.685	279.705	297.555	318.615	343.455	371.355	402.540
<b>42.5</b>	156.540	157.860	162.135	168.870	178.605	191.880	207.720	227.460	250.530	275.550
<b>47.5</b>	98.070	99.015	101.715	106.500	113.220	122.280	133.350	147.360	163.965	182.385
<b>55.0</b>	49.035	49.470	50.925	53.370	56.955	61.740	67.590	75.060	84.180	94.425
<b>65.0</b>	20.370	20.625	21.255	22.260	23.700	25.530	28.035	31.050	34.635	39.045
<b>75.0</b>	8.175	8.235	8.490	8.745	9.360	10.065	10.935	12.075	13.335	14.895
<b>85.0</b>	2.145	2.145	2.145	2.205	2.385	2.445	2.640	2.760	3.075	3.330
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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>	1371.015	1371.015	1371.015	1371.015	1371.015	1371.015	1371.015	1371.015	1371.015
<b>1.0</b>	1372.665	1372.470	1372.530	1372.470	1372.470	1372.350	1372.290	1372.470	1372.920
<b>3.0</b>	1367.700	1368.195	1368.645	1369.080	1369.575	1369.830	1370.400	1370.580	1370.520
<b>5.0</b>	1354.305	1356.195	1357.830	1359.390	1360.845	1361.715	1362.600	1363.350	1363.860
<b>7.0</b>	1332.810	1337.145	1340.970	1343.745	1346.190	1349.205	1350.660	1351.665	1352.295
<b>9.0</b>	1304.505	1310.865	1316.715	1322.430	1327.515	1331.475	1334.880	1336.770	1336.695
<b>11.0</b>	1268.430	1277.850	1286.535	1294.635	1302.495	1308.540	1313.130	1315.575	1317.210
<b>13.0</b>	1225.740	1237.995	1250.130	1263.015	1272.255	1281.000	1287.660	1291.185	1292.070
<b>15.0</b>	1176.195	1193.355	1209.015	1223.670	1236.555	1247.295	1254.660	1259.820	1262.775
<b>17.0</b>	1121.685	1141.305	1161.480	1179.720	1195.305	1208.895	1218.390	1224.855	1227.315
<b>19.5</b>	1045.245	1069.260	1092.270	1115.280	1135.395	1151.685	1164.885	1172.235	1174.755
<b>22.5</b>	948.240	976.785	1004.565	1032.225	1055.550	1074.540	1089.750	1099.755	1102.080
<b>25.5</b>	844.500	876.945	908.070	939.315	965.715	987.345	1005.015	1016.700	1020.975
<b>29.0</b>	720.600	756.930	791.010	823.440	852.240	877.950	896.190	908.190	913.605
<b>33.0</b>	581.220	617.925	652.950	687.840	716.385	742.290	762.720	774.030	776.925
<b>37.5</b>	437.370	471.075	504.450	537.525	565.755	589.395	607.305	618.810	624.285
<b>42.5</b>	303.465	331.500	360.480	388.455	412.860	433.545	449.565	459.510	463.470
<b>47.5</b>	203.445	225.135	247.380	269.325	288.060	305.355	318.420	326.730	330.555
<b>55.0</b>	106.185	119.010	132.270	145.980	158.115	169.050	177.540	182.880	184.200
<b>65.0</b>	43.950	49.545	55.320	61.425	67.140	72.105	76.380	78.960	79.710
<b>75.0</b>	16.845	18.795	21.000	23.325	25.455	27.540	29.115	30.120	30.675
<b>85.0</b>	3.645	3.960	4.275	4.650	4.905	5.160	5.475	5.535	5.655
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	431.54	N.A.	28.60
0-30	796.69	N.A.	52.70
0-40	1077.85	N.A.	71.30
0-60	1395.93	N.A.	92.40
0-80	1498.83	N.A.	99.20
0-90	1510.97	N.A.	100.00
10-90	1407.53	N.A.	93.20
20-40	646.31	N.A.	42.80
20-50	867.00	N.A.	57.40
40-70	389.27	N.A.	25.80
60-80	102.90	N.A.	6.80
70-80	31.70	N.A.	2.10
80-90	12.14	N.A.	0.80
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	1510.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	103.43
10-20	328.11
20-30	365.15
30-40	281.16
40-50	220.69
50-60	97.38
60-70	71.20
70-80	31.70
80-90	12.14
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

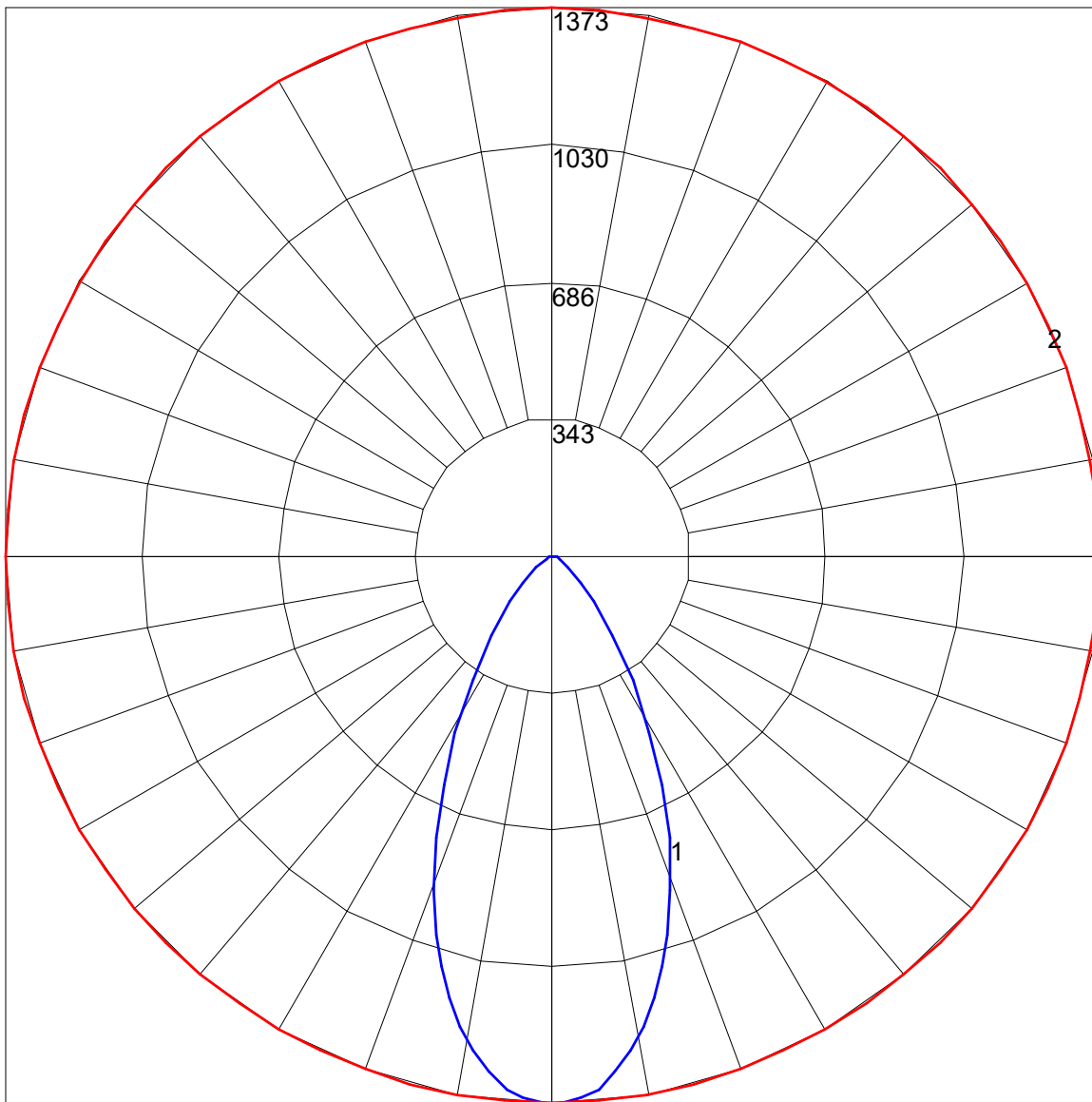
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	108	105	102	109	106	103	100	102	100	97	98	96	94	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80
3	98	90	83	78	95	88	82	78	85	81	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	72	60	53	49	70	60	53	48	59	52	48	57	52	48	56	51	48	46
9	68	56	50	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

POLAR GRAPH



Maximum Candela = 1372.92 Located At Horizontal Angle = 90, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)