

## IES Report

# ZipTwo® | 707 | Square 3572, Side Diffuse | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-H9-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	119	123	125	126
Total Lumens, 4' rail length (1219mm)	4680	4828	4927	4976
Lumens per foot (305mm)	1170	1207	1232	1244
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	95	95	95	95

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\_H9\_WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011202 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 9/9/2020

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-HO-359-H9-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, square 3572,

[MORE] side diffuse lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4927
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	39.55
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	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.22 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7864	6020	744
55	8718	6915	716
65	9151	7495	612
75	9300	8124	669
85	9413	8734	1193

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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>	38.940	38.940	38.940	38.940	38.940	38.940	38.940	38.940	38.940	38.940
<b>5</b>	60.480	60.360	59.850	58.845	57.210	55.200	52.875	50.415	47.970	45.825
<b>10</b>	135.795	135.300	133.845	131.205	127.440	122.655	116.940	110.145	102.600	94.560
<b>15</b>	218.160	217.275	214.575	210.105	203.565	195.270	185.655	174.390	161.760	148.365
<b>20</b>	305.535	304.155	300.195	293.595	283.980	271.965	258.075	241.605	223.245	204.135
<b>25</b>	396.195	394.245	388.650	379.905	366.840	351.060	332.445	310.380	285.990	260.715
<b>30</b>	484.845	482.520	475.350	464.160	447.930	428.955	405.495	378.405	347.655	315.975
<b>35</b>	570.465	567.705	559.530	545.820	526.710	502.755	473.835	442.905	407.820	369.975
<b>40</b>	650.940	647.670	637.800	621.765	599.820	570.585	540.480	502.635	457.485	418.200
<b>45</b>	722.100	718.335	707.385	690.105	664.575	633.840	597.945	556.695	509.925	459.060
<b>50</b>	780.450	776.490	764.355	745.365	718.650	685.260	646.095	601.080	553.305	499.800
<b>55</b>	824.070	819.795	807.540	787.485	760.260	725.055	684.375	636.540	583.230	528.915
<b>60</b>	851.355	847.215	835.200	815.595	787.545	751.845	710.280	661.305	606.360	549.405
<b>65</b>	863.550	859.725	847.710	827.970	800.310	765.915	724.740	675.900	621.645	557.640
<b>70</b>	861.915	858.465	846.765	828.165	802.200	768.495	727.950	680.670	627.420	570.345
<b>75</b>	849.345	846.015	835.515	818.235	793.515	761.205	723.045	677.025	624.720	569.085
<b>80</b>	829.350	826.080	816.405	800.190	776.490	746.880	711.105	667.095	617.115	563.295
<b>85</b>	804.960	802.065	792.645	777.735	756.240	728.325	693.120	652.950	606.615	555.255
<b>90</b>	779.310	776.805	767.865	754.230	733.860	707.325	675.075	635.790	590.325	536.010
<b>95</b>	753.660	750.960	742.980	729.705	710.100	684.945	654.390	616.920	573.360	523.950
<b>100</b>	728.145	725.625	717.570	704.745	685.950	661.680	632.385	596.805	555.690	509.235
<b>105</b>	702.735	700.290	692.685	679.980	662.310	638.670	610.200	575.490	536.010	494.460
<b>110</b>	676.335	673.815	666.585	654.390	636.795	613.725	586.185	552.555	511.185	473.775
<b>115</b>	647.790	645.405	638.175	625.845	608.445	586.680	559.905	527.595	492.825	451.830
<b>120</b>	616.230	613.965	606.555	594.915	578.325	556.695	530.550	501.435	467.355	428.325
<b>125</b>	581.025	578.640	571.845	560.715	544.380	523.695	499.680	471.330	437.505	401.160
<b>130</b>	541.290	539.160	532.500	521.925	507.465	488.805	465.600	438.195	405.435	367.785
<b>135</b>	499.170	497.280	491.370	481.575	467.295	449.010	427.005	398.265	362.505	325.725
<b>140</b>	452.400	450.450	444.795	435.495	422.595	405.570	379.290	346.275	313.965	282.600
<b>145</b>	400.095	398.640	393.555	385.320	373.440	350.610	322.005	294.030	267.120	241.605
<b>150</b>	345.150	343.830	339.555	332.190	314.595	288.945	266.310	244.425	225.690	208.785
<b>155</b>	287.805	286.800	283.155	272.340	248.835	229.905	213.750	201.990	189.240	174.015
<b>160</b>	227.955	227.010	223.245	201.990	186.210	174.150	167.730	159.120	147.495	130.455
<b>165</b>	163.590	162.645	148.245	135.675	127.620	125.040	120.330	112.980	101.100	91.350
<b>170</b>	100.470	92.550	80.220	75.060	76.260	76.575	74.370	70.155	65.880	61.170
<b>175</b>	46.140	34.710	34.575	38.100	40.545	40.365	39.540	38.220	36.405	34.455
<b>180</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</b>	38.940	38.940	38.940	38.940	38.940	38.940	38.940	38.940	38.940
<b>5</b>	43.890	42.495	41.235	40.425	39.855	39.615	39.420	39.300	39.480
<b>10</b>	85.440	76.380	66.645	56.580	47.535	42.255	39.675	38.985	39.105
<b>15</b>	133.665	118.380	102.480	86.250	69.780	53.250	41.625	38.415	38.355
<b>20</b>	183.075	161.325	138.870	116.115	93.240	70.350	47.970	37.785	37.095
<b>25</b>	232.860	204.450	175.275	145.725	116.625	87.075	58.530	37.590	35.715
<b>30</b>	282.405	246.060	210.795	174.015	137.940	102.105	68.460	38.040	33.705
<b>35</b>	328.425	286.485	244.110	200.115	160.815	117.375	80.970	39.360	31.680
<b>40</b>	371.055	323.640	274.350	224.760	177.540	131.640	88.260	44.385	29.430
<b>45</b>	409.650	356.025	301.830	248.385	195.270	146.415	94.425	47.715	26.790
<b>50</b>	443.790	385.320	326.535	265.740	209.100	153.015	99.270	49.230	22.755
<b>55</b>	467.115	408.270	345.705	281.265	220.800	162.585	104.355	52.440	21.375
<b>60</b>	481.695	423.540	359.550	295.110	230.985	168.045	109.395	55.080	18.480

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	499.110	437.430	370.800	301.710	236.760	171.945	112.290	55.575	13.950
<b>70</b>	504.450	443.730	376.830	306.795	241.035	175.965	118.695	55.515	12.825
<b>75</b>	501.870	444.285	378.780	309.870	242.925	178.485	119.820	57.780	10.065
<b>80</b>	501.180	441.900	377.460	309.570	242.790	176.655	118.950	57.720	7.425
<b>85</b>	496.410	437.250	373.380	305.535	240.855	175.410	116.430	55.635	8.175
<b>90</b>	487.035	428.760	366.840	300.630	237.390	175.095	116.940	56.715	7.035
<b>95</b>	474.405	416.190	357.210	295.980	233.550	170.820	115.740	55.830	5.910
<b>100</b>	460.830	405.750	347.850	285.795	226.320	165.465	113.850	52.740	5.160
<b>105</b>	443.790	391.800	336.225	276.435	219.165	161.250	112.290	49.920	4.905
<b>110</b>	425.175	374.445	321.945	267.435	211.680	155.535	106.995	45.390	5.280
<b>115</b>	406.950	358.605	307.860	253.680	201.495	147.870	99.330	39.105	6.420
<b>120</b>	384.945	339.240	291.330	240.150	190.800	140.190	91.785	31.815	7.545
<b>125</b>	359.925	315.405	269.205	220.725	174.015	130.005	73.740	28.545	8.670
<b>130</b>	325.650	282.720	240.225	196.710	154.095	110.025	62.430	25.080	9.555
<b>135</b>	287.055	249.780	212.175	173.265	134.415	92.670	51.420	21.375	10.305
<b>140</b>	249.525	218.280	186.405	150.060	113.850	77.700	43.185	19.365	11.070
<b>145</b>	217.590	192.885	158.235	125.670	93.480	63.060	36.960	17.475	11.820
<b>150</b>	188.355	160.500	131.085	103.605	77.205	52.995	33.630	17.160	13.455
<b>155</b>	150.135	126.990	105.615	83.805	64.185	46.395	29.865	18.045	15.465
<b>160</b>	113.850	97.755	81.285	67.020	53.130	39.105	26.655	19.170	17.730
<b>165</b>	81.285	71.730	62.175	51.990	41.430	31.065	23.385	20.115	19.485
<b>170</b>	55.635	49.725	43.440	36.840	30.180	24.705	21.945	21.180	21.000
<b>175</b>	31.995	29.490	26.790	24.765	23.520	22.575	22.320	22.260	22.125
<b>180</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	46.42	N.A.	0.90
0-30	159.11	N.A.	3.20
0-40	374.23	N.A.	7.60
0-60	1142.27	N.A.	23.20
0-80	2199.92	N.A.	44.70
0-90	2743.21	N.A.	55.70
10-90	2737.24	N.A.	55.60
20-40	327.81	N.A.	6.70
20-50	658.88	N.A.	13.40
40-70	1279.66	N.A.	26.00
60-80	1057.65	N.A.	21.50
70-80	546.02	N.A.	11.10
80-90	543.29	N.A.	11.00
90-110	980.09	N.A.	19.90
90-120	1381.15	N.A.	28.00
90-130	1702.37	N.A.	34.60
90-150	2078.92	N.A.	42.20
90-180	2183.35	N.A.	44.30
110-180	1203.26	N.A.	24.40
0-180	4926.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	5.97
10-20	40.45
20-30	112.69
30-40	215.12
40-50	331.07
50-60	436.97
60-70	511.62
70-80	546.02
80-90	543.29
90-100	514.17
100-110	465.92
110-120	401.05
120-130	321.23
130-140	231.42
140-150	145.13
150-160	74.69
160-170	26.19
170-180	3.54

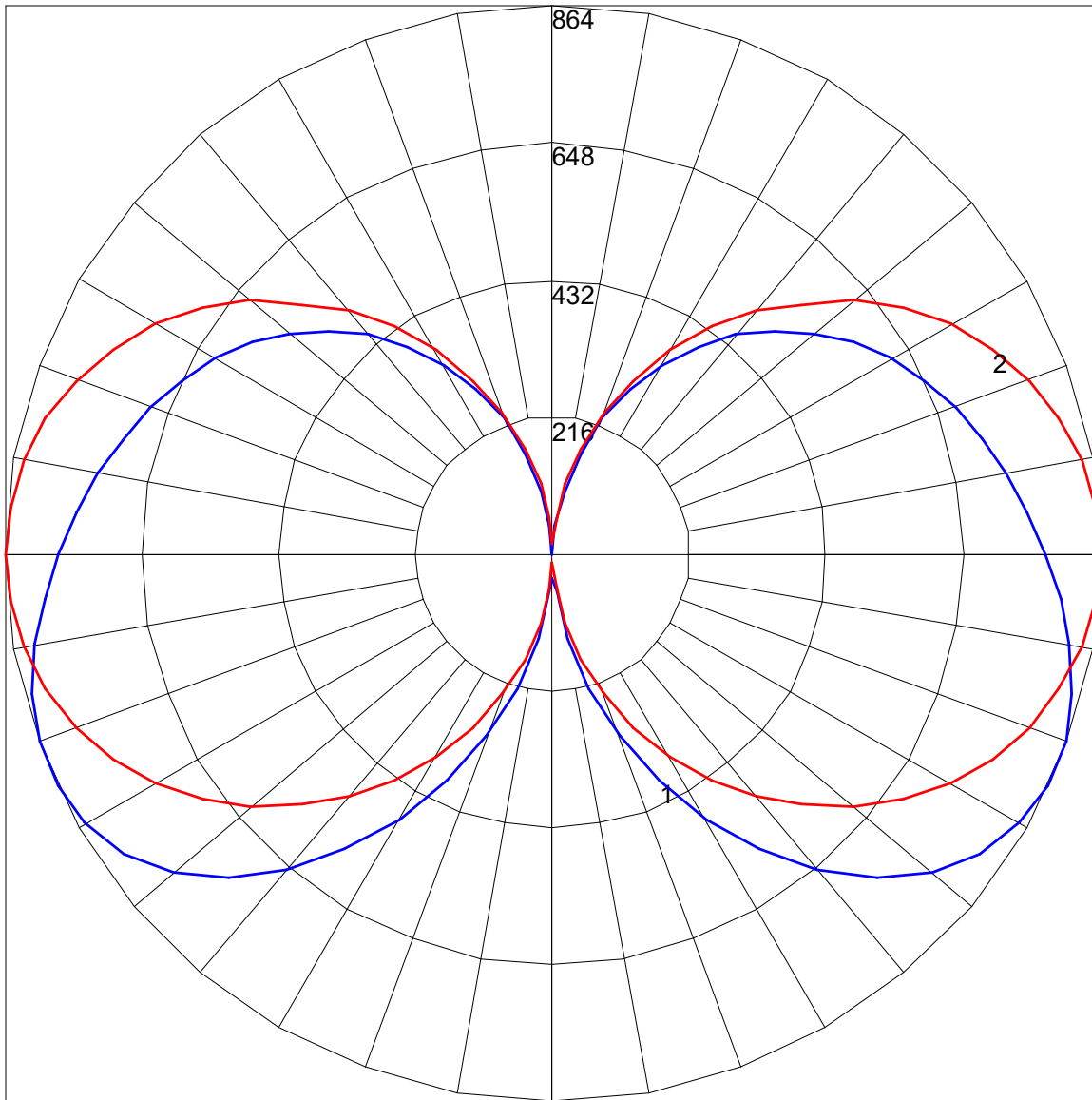
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56
1	93	86	80	75	86	80	74	69	67	63	59	56	52	49	45	43	40	35
2	82	72	63	56	75	66	59	52	55	49	44	45	41	37	36	33	29	25
3	74	61	52	44	67	56	48	41	47	40	34	38	33	28	30	26	22	18
4	67	53	43	35	61	49	40	33	40	33	28	33	27	23	26	21	18	14
5	61	46	36	29	55	43	34	27	35	28	23	29	23	18	22	18	14	11
6	55	41	31	24	50	38	29	23	31	24	19	25	20	15	20	15	12	9
7	51	37	27	21	46	34	25	19	28	21	16	23	17	13	18	13	10	7
8	47	33	24	18	43	30	22	16	25	18	14	21	15	11	16	12	8	6
9	43	30	21	15	40	27	20	14	23	16	12	19	13	10	15	10	7	5
10	41	27	19	14	37	25	17	12	21	15	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 863.55 Located At Horizontal Angle = 0, Vertical Angle = 65

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)