

## IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	114	117	120	121
Total Lumens, 4' rail length (1219mm)	4478	4619	4714	4761
Lumens per foot (305mm)	1119	1155	1178	1190
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\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011203 (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-BL

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

[MORE] side diffuse black lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4714
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	7550	5819	531
55	8386	6636	463
65	8828	7249	430
75	8982	7734	393
85	9091	8330	716

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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>	27.705	27.705	27.705	27.705	27.705	27.705	27.705	27.705	27.705	27.705
<b>5</b>	57.090	56.895	56.400	55.260	53.685	51.810	49.545	46.830	43.890	40.620
<b>10</b>	129.630	129.075	127.560	124.980	121.215	116.685	111.210	104.670	97.440	89.775
<b>15</b>	208.590	207.780	205.080	200.745	194.445	186.600	177.345	166.545	154.335	141.585
<b>20</b>	292.710	291.450	287.490	281.025	271.785	260.340	246.945	231.360	213.630	195.150
<b>25</b>	379.605	377.895	372.495	363.885	351.375	336.345	318.420	297.300	274.425	249.960
<b>30</b>	465.345	463.020	456.480	445.740	430.455	411.225	388.455	362.430	334.140	303.720
<b>35</b>	547.455	545.190	536.955	523.560	505.530	482.070	456.360	424.680	390.225	353.445
<b>40</b>	624.660	621.570	612.090	596.940	575.430	547.650	518.535	482.070	442.905	401.040
<b>45</b>	693.315	689.910	678.975	661.875	637.665	608.370	573.225	534.885	490.185	443.730
<b>50</b>	750.270	746.370	734.550	716.445	691.230	658.350	620.325	576.885	530.040	477.105
<b>55</b>	792.765	789.060	777.240	758.310	731.160	696.960	657.600	611.265	555.375	507.600
<b>60</b>	820.170	816.285	804.390	785.040	757.185	723.555	683.190	635.790	582.720	528.780
<b>65</b>	832.995	829.110	817.095	798.300	771.900	737.130	697.020	649.935	598.695	539.340
<b>70</b>	832.125	828.480	817.290	799.110	773.400	740.460	701.550	654.960	602.595	542.805
<b>75</b>	820.305	816.840	806.535	789.375	764.730	733.920	696.645	651.810	601.080	541.800
<b>80</b>	800.940	797.670	787.860	771.900	749.385	719.655	683.685	642.195	595.170	537.210
<b>85</b>	777.420	774.540	765.420	750.765	729.705	701.790	668.670	628.305	581.850	529.605
<b>90</b>	752.025	749.130	740.835	727.200	707.010	680.985	649.620	611.400	567.195	518.910
<b>95</b>	725.745	723.105	715.065	701.670	682.620	658.545	628.425	592.275	551.040	503.700
<b>100</b>	699.855	697.335	689.355	676.770	659.235	635.475	606.420	572.160	532.560	490.815
<b>105</b>	673.575	671.250	664.020	651.810	634.335	611.580	584.175	550.725	509.490	472.080
<b>110</b>	646.530	644.205	636.915	625.230	607.815	586.125	559.710	528.030	492.510	452.085
<b>115</b>	617.490	615.225	607.935	596.370	579.960	558.525	532.500	504.390	469.935	431.595
<b>120</b>	585.810	583.725	576.810	565.560	549.780	528.975	504.960	477.045	442.965	406.320
<b>125</b>	550.845	548.580	542.235	531.240	516.090	498.420	475.095	447.060	414.810	380.415
<b>130</b>	512.250	510.240	504.825	495.345	480.885	462.390	440.205	414.120	384.810	348.975
<b>135</b>	472.770	470.820	464.970	455.235	442.020	424.605	403.995	376.830	342.750	307.740
<b>140</b>	426.375	424.680	419.145	410.460	398.205	382.245	358.350	326.595	295.665	265.680
<b>145</b>	376.575	374.940	370.230	362.115	351.180	329.925	303.150	276.555	250.965	226.140
<b>150</b>	323.640	322.200	318.180	311.265	294.795	270.705	249.270	228.150	209.730	193.320
<b>155</b>	268.320	267.120	263.355	253.860	231.105	213.495	197.850	186.465	174.150	159.930
<b>160</b>	210.615	209.535	205.890	186.780	171.825	160.065	153.780	146.355	136.110	121.770
<b>165</b>	151.635	150.885	137.490	126.555	118.695	116.370	112.530	106.125	95.430	86.445
<b>170</b>	94.170	87.255	76.320	71.235	71.925	71.985	69.225	64.815	60.225	55.395
<b>175</b>	41.490	32.760	32.760	35.835	37.845	37.155	36.090	34.575	32.625	30.435
<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>	27.705	27.705	27.705	27.705	27.705	27.705	27.705	27.705	27.705
<b>5</b>	37.095	33.510	30.810	28.725	27.285	26.850	26.970	27.030	26.910
<b>10</b>	81.225	72.300	63.060	53.190	43.260	33.255	27.285	26.535	26.400
<b>15</b>	127.440	112.725	97.755	81.855	66.015	49.725	33.825	25.530	25.770
<b>20</b>	174.900	154.035	132.900	110.655	88.650	66.330	44.505	25.710	24.900
<b>25</b>	223.305	195.900	168.045	138.630	110.715	82.290	54.690	28.605	24.645
<b>30</b>	270.150	236.130	201.750	165.780	131.775	99.525	63.870	32.565	23.520
<b>35</b>	314.025	274.425	233.685	191.430	152.640	112.590	73.995	37.350	21.120
<b>40</b>	355.575	308.745	262.725	216.705	171.195	124.980	82.050	41.745	19.485
<b>45</b>	393.675	342.195	290.265	236.445	186.210	139.260	93.735	44.445	19.110
<b>50</b>	424.800	369.660	313.140	254.745	200.175	147.180	97.950	47.535	15.840
<b>55</b>	450.330	390.975	330.750	270.645	212.685	155.595	103.035	50.550	13.830
<b>60</b>	470.505	408.765	346.275	282.285	220.800	160.185	106.305	51.555	11.940

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	480.885	420.090	356.205	289.515	227.265	164.775	107.505	52.125	9.810
<b>70</b>	485.400	425.310	360.675	295.425	231.285	169.620	116.370	54.690	7.800
<b>75</b>	489.120	426.945	362.745	297.435	233.940	169.050	117.315	55.005	5.910
<b>80</b>	486.225	425.370	362.310	295.800	232.860	169.245	116.625	53.445	5.790
<b>85</b>	477.855	419.580	358.230	292.770	230.850	169.740	115.800	53.940	4.905
<b>90</b>	467.550	409.395	350.745	290.010	229.275	166.545	116.175	54.255	4.020
<b>95</b>	455.730	400.785	343.140	281.520	222.495	162.390	114.045	52.365	4.650
<b>100</b>	441.150	388.335	332.820	273.225	216.330	158.925	112.980	49.230	5.400
<b>105</b>	424.230	373.560	320.250	264.870	209.910	154.650	107.625	47.535	5.160
<b>110</b>	407.070	358.605	307.740	253.995	200.805	146.610	97.320	43.500	5.535
<b>115</b>	387.270	341.250	292.905	241.410	191.115	138.870	87.390	36.900	6.660
<b>120</b>	365.010	322.200	275.805	227.715	179.685	131.325	81.345	31.560	7.170
<b>125</b>	342.060	299.310	254.685	209.295	163.080	121.020	70.290	25.770	7.665
<b>130</b>	308.430	267.630	226.635	183.765	142.710	100.335	58.965	21.690	8.295
<b>135</b>	270.900	235.380	199.170	161.130	124.605	87.885	49.860	19.560	8.925
<b>140</b>	234.435	203.940	172.380	139.440	106.875	75.435	41.235	17.415	9.300
<b>145</b>	202.815	178.425	146.235	117.375	89.835	60.540	34.395	15.900	9.675
<b>150</b>	174.015	147.735	121.845	98.385	73.875	49.785	30.810	15.150	10.440
<b>155</b>	138.945	118.260	100.395	80.100	59.910	42.870	27.405	15.150	11.820
<b>160</b>	107.760	93.105	77.520	62.310	48.600	36.030	23.955	14.970	12.945
<b>165</b>	76.830	66.270	56.520	46.770	37.590	28.410	19.800	14.580	13.575
<b>170</b>	49.920	44.640	38.850	32.880	26.910	21.060	16.350	14.400	14.085
<b>175</b>	27.975	25.395	22.320	19.425	17.040	15.525	14.835	14.520	14.580
<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	43.50	N.A.	0.90
0-30	151.11	N.A.	3.20
0-40	357.13	N.A.	7.60
0-60	1094.7	N.A.	23.20
0-80	2112.9	N.A.	44.80
0-90	2636.07	N.A.	55.90
10-90	2630.8	N.A.	55.80
20-40	313.63	N.A.	6.70
20-50	631.30	N.A.	13.40
40-70	1230.02	N.A.	26.10
60-80	1018.21	N.A.	21.60
70-80	525.75	N.A.	11.20
80-90	523.16	N.A.	11.10
90-110	940.11	N.A.	19.90
90-120	1321.82	N.A.	28.00
90-130	1626.17	N.A.	34.50
90-150	1980.8	N.A.	42.00
90-180	2077.56	N.A.	44.10
110-180	1137.45	N.A.	24.10
0-180	4713.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	5.26
10-20	38.24
20-30	107.61
30-40	206.02
40-50	317.66
50-60	419.90
60-70	492.46
70-80	525.75
80-90	523.16
90-100	494.16
100-110	445.94
110-120	381.71
120-130	304.36
130-140	218.43
140-150	136.19
150-160	69.42
160-170	24.18
170-180	3.16

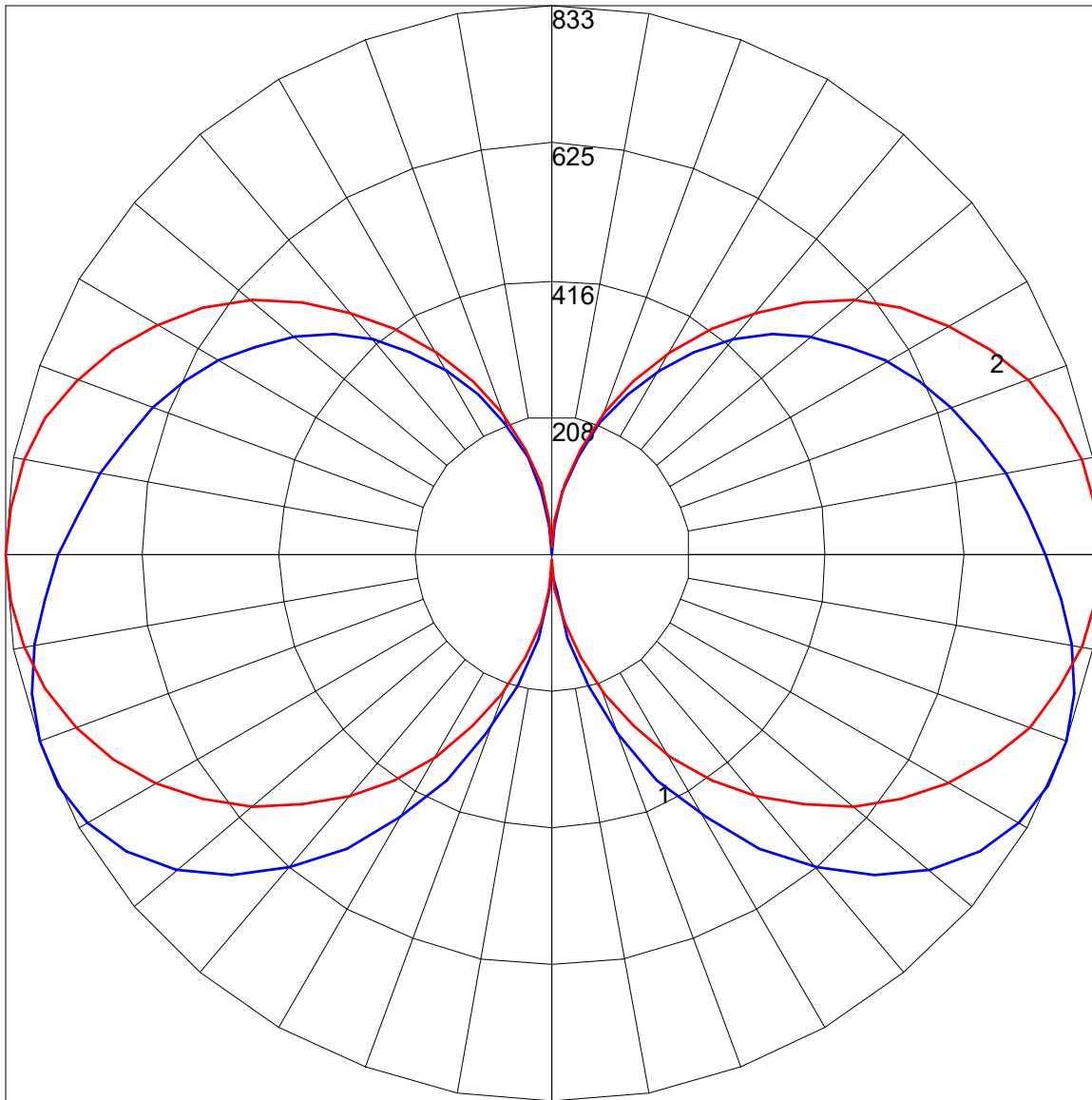
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	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	46	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	60	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	36	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	40	27	19	13	37	25	17	12	21	15	10	17	12	8	14	9	6	4

POLAR GRAPH



Maximum Candela = 832.995 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.)