

## IES Report

# ZipTwo® | 707 | Square 3519, Side Diffuse | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-F9-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	59	61	62	63
Total Lumens, 4' rail length (1219mm)	2314	2387	2435	2460
Lumens per foot (305mm)	578	597	609	615
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\_F9\_WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L082011212 (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-F9-WH  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] square 3519, 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	2435
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
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	0.05 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5527	3785	229
55	7733	5276	241
65	10539	7297	240
75	14135	10234	308
85	19561	15499	496

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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>	10.905	10.905	10.905	10.905	10.905	10.905	10.905	10.905	10.905	10.905
<b>5</b>	22.515	22.515	22.380	22.005	21.570	21.000	20.370	19.485	18.615	17.730
<b>10</b>	45.510	45.450	45.015	44.325	43.125	41.745	40.050	38.100	35.895	33.510
<b>15</b>	70.410	70.095	69.345	68.025	66.135	63.750	60.990	57.645	53.940	49.980
<b>20</b>	97.440	97.065	95.880	93.990	91.155	87.645	83.490	78.645	73.110	67.335
<b>25</b>	126.750	126.240	124.725	121.965	118.125	113.355	107.700	100.965	93.555	85.755
<b>30</b>	158.055	157.290	155.100	151.635	146.670	140.385	133.095	124.410	114.930	104.985
<b>35</b>	191.115	190.245	187.470	183.075	176.655	168.930	159.870	149.130	137.310	125.040
<b>40</b>	225.570	224.370	220.920	215.445	207.660	198.165	186.975	174.075	159.870	145.170
<b>45</b>	261.030	259.515	255.495	248.775	239.460	227.895	214.815	199.545	182.700	165.345
<b>50</b>	296.865	295.230	290.445	282.465	271.470	258.015	242.730	224.820	205.515	185.520
<b>55</b>	331.440	329.745	323.955	314.850	302.085	286.680	269.070	248.775	226.830	204.510
<b>60</b>	363.630	361.485	355.020	344.835	330.435	313.455	293.790	271.215	247.260	222.045
<b>65</b>	392.040	389.715	382.620	371.490	356.085	337.290	315.540	291.705	265.560	238.335
<b>70</b>	413.925	411.600	404.175	392.430	376.575	356.400	333.330	307.620	280.455	251.655
<b>75</b>	429.765	427.320	419.715	407.895	391.410	370.665	347.280	320.445	291.705	261.660
<b>80</b>	439.455	437.055	429.765	417.690	401.220	380.475	356.775	329.550	299.820	269.460
<b>85</b>	443.730	441.390	434.175	422.475	406.125	385.575	361.995	334.710	304.845	274.290
<b>90</b>	444.225	441.960	434.925	423.600	406.950	386.955	363.630	336.540	306.930	276.300
<b>95</b>	442.845	440.640	433.665	422.220	406.260	386.325	363.375	336.465	306.930	276.690
<b>100</b>	439.065	436.740	429.825	418.515	402.480	383.115	360.360	333.900	305.220	274.800
<b>105</b>	431.775	429.450	422.595	411.285	395.940	376.395	354.135	328.920	300.570	271.275
<b>110</b>	420.585	418.320	411.600	400.785	385.755	366.960	345.405	320.370	293.655	265.500
<b>115</b>	404.865	402.615	396.195	385.950	371.670	353.760	333.135	309.180	283.290	256.245
<b>120</b>	385.005	382.800	376.890	367.155	353.880	336.780	317.415	294.915	270.210	244.680
<b>125</b>	361.110	359.295	353.700	344.895	332.385	316.725	298.755	278.010	255.060	231.225
<b>130</b>	333.825	332.445	327.285	319.245	307.740	293.790	277.440	258.330	235.320	208.785
<b>135</b>	304.035	302.580	298.185	290.760	280.650	267.750	252.660	229.590	205.455	183.015
<b>140</b>	270.960	269.640	265.740	259.200	249.960	238.140	217.905	197.340	177.480	158.235
<b>145</b>	236.505	235.500	232.230	226.830	218.595	200.430	183.135	166.470	150.825	136.800
<b>150</b>	202.185	201.360	198.480	193.440	178.545	163.830	150.885	138.690	128.880	118.200
<b>155</b>	167.355	166.665	164.085	154.335	140.385	129.570	120.135	113.415	104.430	94.680
<b>160</b>	128.250	127.560	123.030	109.770	100.710	94.170	91.095	87.330	80.970	71.985
<b>165</b>	91.035	90.030	79.965	74.565	70.350	69.780	66.825	61.920	56.895	53.130
<b>170</b>	57.720	51.240	46.590	45.015	47.460	47.970	47.025	45.960	44.010	41.865
<b>175</b>	33.315	27.975	29.235	32.250	33.570	33.570	33.195	32.880	32.250	31.305
<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>	10.905	10.905	10.905	10.905	10.905	10.905	10.905	10.905	10.905
<b>5</b>	16.605	15.465	14.460	13.395	12.450	11.565	11.070	10.620	10.560
<b>10</b>	30.750	27.855	24.960	21.810	18.735	15.525	12.945	11.190	10.440
<b>15</b>	45.705	41.115	36.345	31.365	26.280	20.805	15.840	11.880	10.305
<b>20</b>	61.170	54.570	47.970	40.935	33.945	26.535	19.485	13.020	10.185
<b>25</b>	77.265	68.520	59.595	50.550	41.430	32.250	23.010	14.265	9.810
<b>30</b>	94.245	83.055	71.730	60.285	48.915	37.785	26.595	15.840	9.300
<b>35</b>	111.720	98.205	84.300	70.350	56.715	43.260	30.240	17.475	9.180
<b>40</b>	129.255	112.980	96.690	80.280	64.320	48.465	33.450	18.990	8.550
<b>45</b>	146.730	127.995	109.335	90.090	71.865	53.310	36.585	20.115	7.920
<b>50</b>	164.205	142.770	121.590	99.765	79.215	58.470	39.540	21.570	7.545
<b>55</b>	180.810	156.480	132.840	108.705	85.500	63.000	42.000	22.695	6.795
<b>60</b>	196.155	169.800	143.400	116.625	91.665	67.275	44.505	23.760	6.030

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	209.850	181.380	153.015	124.095	97.320	71.040	46.650	24.210	5.025
<b>70</b>	221.235	191.115	161.070	130.455	102.105	74.745	48.600	24.765	4.905
<b>75</b>	230.040	199.170	167.235	135.735	106.065	77.895	50.040	25.590	4.020
<b>80</b>	236.580	204.630	172.380	140.325	109.650	79.965	51.615	26.340	3.150
<b>85</b>	241.545	208.665	175.785	143.145	111.345	80.970	52.365	26.340	2.385
<b>90</b>	244.050	210.540	177.345	144.405	112.350	81.600	52.680	26.280	1.755
<b>95</b>	243.990	211.110	178.485	145.095	113.355	81.540	53.130	26.535	1.890
<b>100</b>	243.180	210.540	177.855	144.150	112.785	81.735	52.815	24.900	2.520
<b>105</b>	239.715	207.900	175.785	142.830	111.900	81.225	50.610	23.265	3.645
<b>110</b>	234.315	203.565	172.260	140.265	109.890	78.780	49.860	21.435	4.785
<b>115</b>	226.515	197.400	167.475	136.050	105.675	76.575	48.090	19.680	5.790
<b>120</b>	216.645	189.045	159.750	130.320	101.160	74.055	44.070	18.300	7.170
<b>125</b>	204.765	174.900	146.490	118.500	92.040	65.070	38.790	17.220	8.430
<b>130</b>	181.560	156.105	130.320	106.245	82.425	57.210	33.825	16.605	9.435
<b>135</b>	160.320	137.490	116.490	94.425	71.100	49.920	29.430	16.290	10.440
<b>140</b>	139.635	121.530	102.420	80.100	60.795	41.940	26.850	15.840	11.310
<b>145</b>	123.225	106.695	84.750	66.885	51.240	34.950	24.960	15.525	12.075
<b>150</b>	103.980	85.815	71.160	57.525	43.380	33.885	25.020	16.980	14.205
<b>155</b>	81.480	70.545	59.415	47.775	40.110	32.445	24.525	18.675	16.605
<b>160</b>	63.435	54.570	47.970	42.495	36.780	30.180	23.955	19.860	18.480
<b>165</b>	49.170	45.645	41.550	37.410	32.685	27.480	23.325	20.940	20.115
<b>170</b>	40.050	37.905	34.950	31.755	28.230	25.395	23.325	22.320	21.885
<b>175</b>	30.045	28.665	27.225	25.965	25.020	24.210	23.700	23.385	23.265
<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	15.56	N.A.	0.60
0-30	52.75	N.A.	2.20
0-40	126.10	N.A.	5.20
0-60	419.04	N.A.	17.20
0-80	902.67	N.A.	37.10
0-90	1182.59	N.A.	48.60
10-90	1180.54	N.A.	48.50
20-40	110.54	N.A.	4.50
20-50	230.67	N.A.	9.50
40-70	515.92	N.A.	21.20
60-80	483.63	N.A.	19.90
70-80	260.65	N.A.	10.70
80-90	279.93	N.A.	11.50
90-110	547.65	N.A.	22.50
90-120	782.88	N.A.	32.10
90-130	972.44	N.A.	39.90
90-150	1191.46	N.A.	48.90
90-180	1252.86	N.A.	51.40
110-180	705.22	N.A.	29.00
0-180	2435.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2.06
10-20	13.50
20-30	37.19
30-40	73.36
40-50	120.13
50-60	172.80
60-70	222.99
70-80	260.65
80-90	279.93
90-100	281.26
100-110	266.39
110-120	235.23
120-130	189.57
130-140	135.30
140-150	83.72
150-160	42.92
160-170	15.70
170-180	2.78

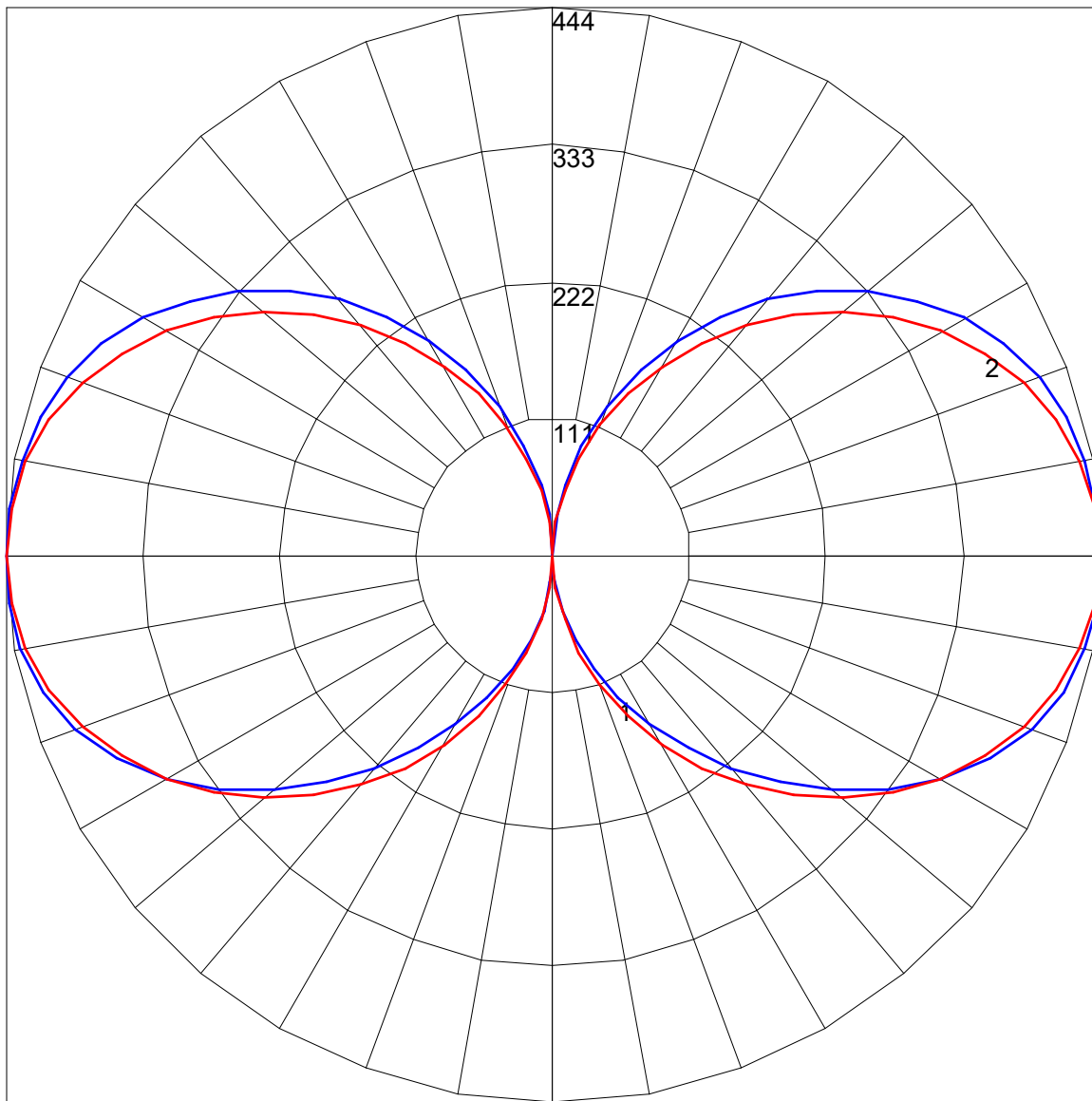
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	92	85	79	73	83	77	72	67	63	59	55	51	48	45	39	37	34	29
2	81	71	62	55	73	64	57	50	52	46	41	41	37	33	31	28	25	19
3	73	60	51	43	65	55	46	39	44	38	32	35	29	25	26	22	18	14
4	65	52	42	35	59	47	39	32	38	31	26	30	24	20	22	18	14	10
5	60	46	36	29	54	41	33	26	33	27	21	26	21	16	19	15	12	8
6	54	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	10	6
7	50	36	27	20	45	33	24	19	26	20	15	21	15	11	15	11	8	5
8	46	32	24	18	42	29	22	16	24	17	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	8	13	9	6	3
10	40	27	19	13	36	24	17	12	20	14	10	16	11	7	12	8	5	3

POLAR GRAPH



Maximum Candela = 444.225 Located At Horizontal Angle = 0, Vertical Angle = 90  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)