

## IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	101	104	106	107
Total Lumens, 4' rail length (1219mm)	1493	1540	1571	1587
Lumens per foot (305mm)	373	385	393	397
Input Power (W), 4' rail length (1219mm)	14.9	14.9	14.9	14.9
Watts per foot (305mm)	3.8	3.8	3.8	3.8
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\_LO\_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-LO-359-H9-BL

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

[MORE] side diffuse black lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1571
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	14.89
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	2517	1940	177
55	2795	2212	154
65	2943	2416	143
75	2994	2578	131
85	3030	2777	239

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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>	9.235	9.235	9.235	9.235	9.235	9.235	9.235	9.235	9.235	9.235
<b>5</b>	19.030	18.965	18.800	18.420	17.895	17.270	16.515	15.610	14.630	13.540
<b>10</b>	43.210	43.025	42.520	41.660	40.405	38.895	37.070	34.890	32.480	29.925
<b>15</b>	69.530	69.260	68.360	66.915	64.815	62.200	59.115	55.515	51.445	47.195
<b>20</b>	97.570	97.150	95.830	93.675	90.595	86.780	82.315	77.120	71.210	65.050
<b>25</b>	126.535	125.965	124.165	121.295	117.125	112.115	106.140	99.100	91.475	83.320
<b>30</b>	155.115	154.340	152.160	148.580	143.485	137.075	129.485	120.810	111.380	101.240
<b>35</b>	182.485	181.730	178.985	174.520	168.510	160.690	152.120	141.560	130.075	117.815
<b>40</b>	208.220	207.190	204.030	198.980	191.810	182.550	172.845	160.690	147.635	133.680
<b>45</b>	231.105	229.970	226.325	220.625	212.555	202.790	191.075	178.295	163.395	147.910
<b>50</b>	250.090	248.790	244.850	238.815	230.410	219.450	206.775	192.295	176.680	159.035
<b>55</b>	264.255	263.020	259.080	252.770	243.720	232.320	219.200	203.755	185.125	169.200
<b>60</b>	273.390	272.095	268.130	261.680	252.395	241.185	227.730	211.930	194.240	176.260
<b>65</b>	277.665	276.370	272.365	266.100	257.300	245.710	232.340	216.645	199.565	179.780
<b>70</b>	277.375	276.160	272.430	266.370	257.800	246.820	233.850	218.320	200.865	180.935
<b>75</b>	273.435	272.280	268.845	263.125	254.910	244.640	232.215	217.270	200.360	180.600
<b>80</b>	266.980	265.890	262.620	257.300	249.795	239.885	227.895	214.065	198.390	179.070
<b>85</b>	259.140	258.180	255.140	250.255	243.235	233.930	222.890	209.435	193.950	176.535
<b>90</b>	250.675	249.710	246.945	242.400	235.670	226.995	216.540	203.800	189.065	172.970
<b>95</b>	241.915	241.035	238.355	233.890	227.540	219.515	209.475	197.425	183.680	167.900
<b>100</b>	233.285	232.445	229.785	225.590	219.745	211.825	202.140	190.720	177.520	163.605
<b>105</b>	224.525	223.750	221.340	217.270	211.445	203.860	194.725	183.575	169.830	157.360
<b>110</b>	215.510	214.735	212.305	208.410	202.605	195.375	186.570	176.010	164.170	150.695
<b>115</b>	205.830	205.075	202.645	198.790	193.320	186.175	177.500	168.130	156.645	143.865
<b>120</b>	195.270	194.575	192.270	188.520	183.260	176.325	168.320	159.015	147.655	135.440
<b>125</b>	183.615	182.860	180.745	177.080	172.030	166.140	158.365	149.020	138.270	126.805
<b>130</b>	170.750	170.080	168.275	165.115	160.295	154.130	146.735	138.040	128.270	116.325
<b>135</b>	157.590	156.940	154.990	151.745	147.340	141.535	134.665	125.610	114.250	102.580
<b>140</b>	142.125	141.560	139.715	136.820	132.735	127.415	119.450	108.865	98.555	88.560
<b>145</b>	125.525	124.980	123.410	120.705	117.060	109.975	101.050	92.185	83.655	75.380
<b>150</b>	107.880	107.400	106.060	103.755	98.265	90.235	83.090	76.050	69.910	64.440
<b>155</b>	89.440	89.040	87.785	84.620	77.035	71.165	65.950	62.155	58.050	53.310
<b>160</b>	70.205	69.845	68.630	62.260	57.275	53.355	51.260	48.785	45.370	40.590
<b>165</b>	50.545	50.295	45.830	42.185	39.565	38.790	37.510	35.375	31.810	28.815
<b>170</b>	31.390	29.085	25.440	23.745	23.975	23.995	23.075	21.605	20.075	18.465
<b>175</b>	13.830	10.920	10.920	11.945	12.615	12.385	12.030	11.525	10.875	10.145
<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>	9.235	9.235	9.235	9.235	9.235	9.235	9.235	9.235	9.235
<b>5</b>	12.365	11.170	10.270	9.575	9.095	8.950	8.990	9.010	8.970
<b>10</b>	27.075	24.100	21.020	17.730	14.420	11.085	9.095	8.845	8.800
<b>15</b>	42.480	37.575	32.585	27.285	22.005	16.575	11.275	8.510	8.590
<b>20</b>	58.300	51.345	44.300	36.885	29.550	22.110	14.835	8.570	8.300
<b>25</b>	74.435	65.300	56.015	46.210	36.905	27.430	18.230	9.535	8.215
<b>30</b>	90.050	78.710	67.250	55.260	43.925	33.175	21.290	10.855	7.840
<b>35</b>	104.675	91.475	77.895	63.810	50.880	37.530	24.665	12.450	7.040
<b>40</b>	118.525	102.915	87.575	72.235	57.065	41.660	27.350	13.915	6.495
<b>45</b>	131.225	114.065	96.755	78.815	62.070	46.420	31.245	14.815	6.370
<b>50</b>	141.600	123.220	104.380	84.915	66.725	49.060	32.650	15.845	5.280
<b>55</b>	150.110	130.325	110.250	90.215	70.895	51.865	34.345	16.850	4.610
<b>60</b>	156.835	136.255	115.425	94.095	73.600	53.395	35.435	17.185	3.980

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	160.295	140.030	118.735	96.505	75.755	54.925	35.835	17.375	3.270
<b>70</b>	161.800	141.770	120.225	98.475	77.095	56.540	38.790	18.230	2.600
<b>75</b>	163.040	142.315	120.915	99.145	77.980	56.350	39.105	18.335	1.970
<b>80</b>	162.075	141.790	120.770	98.600	77.620	56.415	38.875	17.815	1.930
<b>85</b>	159.285	139.860	119.410	97.590	76.950	56.580	38.600	17.980	1.635
<b>90</b>	155.850	136.465	116.915	96.670	76.425	55.515	38.725	18.085	1.340
<b>95</b>	151.910	133.595	114.380	93.840	74.165	54.130	38.015	17.455	1.550
<b>100</b>	147.050	129.445	110.940	91.075	72.110	52.975	37.660	16.410	1.800
<b>105</b>	141.410	124.520	106.750	88.290	69.970	51.550	35.875	15.845	1.720
<b>110</b>	135.690	119.535	102.580	84.665	66.935	48.870	32.440	14.500	1.845
<b>115</b>	129.090	113.750	97.635	80.470	63.705	46.290	29.130	12.300	2.220
<b>120</b>	121.670	107.400	91.935	75.905	59.895	43.775	27.115	10.520	2.390
<b>125</b>	114.020	99.770	84.895	69.765	54.360	40.340	23.430	8.590	2.555
<b>130</b>	102.810	89.210	75.545	61.255	47.570	33.445	19.655	7.230	2.765
<b>135</b>	90.300	78.460	66.390	53.710	41.535	29.295	16.620	6.520	2.975
<b>140</b>	78.145	67.980	57.460	46.480	35.625	25.145	13.745	5.805	3.100
<b>145</b>	67.605	59.475	48.745	39.125	29.945	20.180	11.465	5.300	3.225
<b>150</b>	58.005	49.245	40.615	32.795	24.625	16.595	10.270	5.050	3.480
<b>155</b>	46.315	39.420	33.465	26.700	19.970	14.290	9.135	5.050	3.940
<b>160</b>	35.920	31.035	25.840	20.770	16.200	12.010	7.985	4.990	4.315
<b>165</b>	25.610	22.090	18.840	15.590	12.530	9.470	6.600	4.860	4.525
<b>170</b>	16.640	14.880	12.950	10.960	8.970	7.020	5.450	4.800	4.695
<b>175</b>	9.325	8.465	7.440	6.475	5.680	5.175	4.945	4.840	4.860
<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	14.50	N.A.	0.90
0-30	50.37	N.A.	3.20
0-40	119.04	N.A.	7.60
0-60	364.90	N.A.	23.20
0-80	704.30	N.A.	44.80
0-90	878.69	N.A.	55.90
10-90	876.93	N.A.	55.80
20-40	104.54	N.A.	6.70
20-50	210.43	N.A.	13.40
40-70	410.01	N.A.	26.10
60-80	339.40	N.A.	21.60
70-80	175.25	N.A.	11.20
80-90	174.39	N.A.	11.10
90-110	313.37	N.A.	19.90
90-120	440.61	N.A.	28.00
90-130	542.06	N.A.	34.50
90-150	660.27	N.A.	42.00
90-180	692.52	N.A.	44.10
110-180	379.15	N.A.	24.10
0-180	1571.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1.75
10-20	12.75
20-30	35.87
30-40	68.67
40-50	105.89
50-60	139.97
60-70	164.15
70-80	175.25
80-90	174.39
90-100	164.72
100-110	148.65
110-120	127.24
120-130	101.45
130-140	72.81
140-150	45.40
150-160	23.14
160-170	8.06
170-180	1.05

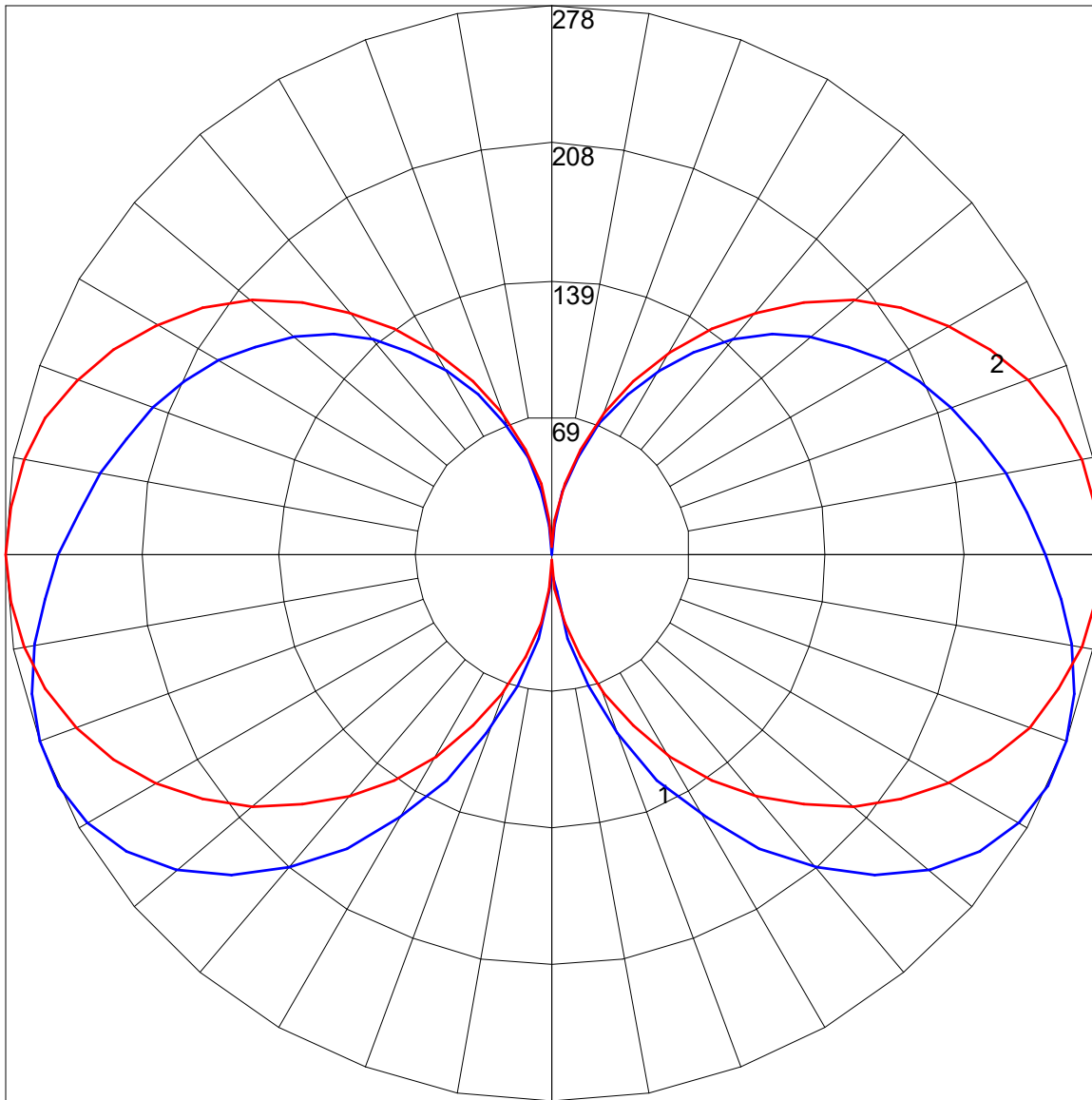
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	83	72	63	56	76	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	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	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 = 277.665 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.)