

## IES Report

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

707-Z2-4-48-XX-XX-X-0-Z-LO-359-S6-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	110	113	115	117
Total Lumens, 4' rail length (1219mm)	1626	1677	1711	1728
Lumens per foot (305mm)	406	419	428	432
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	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\_LO\_359\_S6.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911533 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUEDATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-LO-359-S6-AL

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

[MORE] low output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1711
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.70
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.64
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.09 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5926	5549	5827
55	5903	5372	5489
65	5681	5151	5145
75	5247	4874	4860
85	4763	4585	4936

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_359\_S6.IES**

**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>	280.550	280.550	280.550	280.550	280.550	280.550	280.550	280.550	280.550	280.550
<b>5</b>	287.475	287.455	287.455	287.330	286.950	286.720	286.345	285.925	285.360	284.750
<b>10</b>	294.810	294.770	294.515	294.095	293.530	292.735	291.815	290.725	289.655	288.420
<b>15</b>	300.050	299.925	299.505	298.855	297.850	296.590	295.125	293.385	291.310	289.170
<b>20</b>	304.115	303.840	303.150	302.080	300.655	298.685	296.340	293.760	290.830	287.770
<b>25</b>	307.130	306.755	305.830	304.325	302.080	299.400	296.275	292.505	288.460	284.225
<b>30</b>	309.480	309.250	307.825	305.770	302.750	299.170	294.955	290.075	284.690	279.155
<b>35</b>	311.405	310.925	309.375	306.630	302.730	298.080	292.695	286.425	279.575	272.555
<b>40</b>	312.495	311.845	309.795	306.420	301.790	295.940	289.275	281.650	273.370	264.885
<b>45</b>	311.740	310.925	308.515	304.575	299.105	292.295	284.415	275.510	265.725	255.955
<b>50</b>	308.140	307.215	304.490	300.175	293.990	286.300	277.540	267.355	256.525	245.415
<b>55</b>	300.425	299.440	296.675	292.045	285.525	277.310	267.925	257.005	245.270	233.115
<b>60</b>	287.980	287.015	284.225	279.595	273.100	264.740	255.140	243.905	231.545	218.865
<b>65</b>	270.585	269.765	267.125	262.640	256.565	248.520	239.025	227.855	215.615	202.605
<b>70</b>	249.210	248.495	246.085	242.105	236.340	228.735	219.725	209.265	197.490	184.730
<b>75</b>	225.235	224.545	222.490	218.885	213.775	206.960	198.665	188.920	177.895	166.120
<b>80</b>	200.170	199.605	197.845	194.705	190.175	184.055	176.660	167.335	157.965	146.840
<b>85</b>	175.820	175.275	173.685	170.940	167.185	162.075	155.450	147.365	137.725	127.435
<b>90</b>	154.320	153.815	152.290	149.795	146.065	141.095	135.040	127.520	118.990	109.035
<b>95</b>	144.680	144.240	142.835	140.530	137.155	132.440	126.870	119.995	111.970	103.060
<b>100</b>	138.225	137.870	136.570	134.350	131.120	126.765	121.480	114.965	107.295	98.850
<b>105</b>	132.525	132.170	130.890	128.795	125.655	121.480	116.410	110.165	102.875	94.845
<b>110</b>	126.950	126.575	125.420	123.285	120.160	116.180	111.300	105.365	98.265	90.635
<b>115</b>	121.170	120.770	119.615	117.585	114.525	110.690	105.955	100.170	93.550	86.190
<b>120</b>	114.965	114.610	113.415	111.400	108.510	104.695	100.130	94.740	88.370	81.435
<b>125</b>	108.050	107.735	106.560	104.615	101.865	98.220	93.860	88.770	82.695	76.195
<b>130</b>	100.465	100.105	98.975	97.130	94.510	91.115	87.050	82.125	76.635	70.055
<b>135</b>	92.080	91.745	90.675	89.000	86.530	83.385	79.635	74.920	68.545	61.695
<b>140</b>	83.070	82.735	81.770	80.220	77.955	75.085	70.935	64.965	59.325	53.565
<b>145</b>	73.430	73.160	72.255	70.830	68.905	65.155	60.080	55.240	50.610	45.915
<b>150</b>	63.415	63.160	62.385	61.190	58.215	53.795	49.855	46.060	42.665	39.670
<b>155</b>	53.060	52.830	52.200	50.440	46.375	43.190	40.280	38.225	36.150	33.595
<b>160</b>	42.585	42.435	41.765	38.140	35.520	33.385	32.295	30.890	28.730	25.420
<b>165</b>	31.310	31.160	28.375	26.110	24.475	23.955	23.180	21.795	19.655	18.065
<b>170</b>	19.655	18.045	15.885	14.940	15.300	15.320	14.920	14.315	13.600	12.720
<b>175</b>	7.965	7.585	7.605	8.215	8.510	8.465	8.300	7.965	7.585	7.165
<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>	280.550	280.550	280.550	280.550	280.550	280.550	280.550	280.550	280.550
<b>5</b>	284.165	283.430	282.800	281.965	281.230	280.455	279.765	279.090	278.840
<b>10</b>	286.930	285.485	283.935	282.215	280.475	278.800	277.020	275.300	274.400
<b>15</b>	286.865	284.455	282.045	279.430	276.785	274.065	271.275	268.550	266.605
<b>20</b>	284.375	280.935	277.250	273.600	269.935	266.205	262.560	258.850	256.125
<b>25</b>	279.700	274.880	270.125	265.220	260.485	255.850	251.200	246.630	242.795
<b>30</b>	273.245	267.045	261.005	254.970	249.085	243.195	237.535	232.065	227.245
<b>35</b>	265.180	257.675	250.215	243.005	235.735	228.755	222.050	215.720	210.065
<b>40</b>	256.000	247.070	238.040	229.450	221.025	212.995	205.285	198.075	191.620
<b>45</b>	245.460	235.125	224.860	214.905	205.245	196.105	187.535	179.530	172.385
<b>50</b>	233.490	222.030	210.505	199.355	188.940	178.630	169.305	160.500	152.770
<b>55</b>	220.145	207.655	195.145	183.010	171.670	160.775	150.630	141.225	132.945
<b>60</b>	205.180	192.040	178.840	166.180	154.155	142.500	131.540	121.795	112.910

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_359\_S6.IES**

**CANDELA TABULATION - (Cont.)**

<b>65</b>	188.795	175.295	161.865	148.600	135.940	124.185	112.700	102.515	93.255
<b>70</b>	171.275	157.755	144.115	130.515	117.855	105.700	94.070	83.805	74.185
<b>75</b>	152.855	139.565	126.135	112.660	100.000	87.745	76.175	65.615	55.785
<b>80</b>	134.455	121.735	108.655	95.705	83.240	71.040	59.325	48.595	39.985
<b>85</b>	116.200	103.900	91.410	78.520	66.305	54.090	42.790	32.040	22.130
<b>90</b>	98.305	86.820	74.855	62.260	50.295	38.415	26.655	15.950	6.035
<b>95</b>	92.920	82.150	70.830	58.885	47.360	35.920	24.705	14.085	4.360
<b>100</b>	89.275	79.255	68.275	57.145	45.915	34.995	24.035	13.850	4.025
<b>105</b>	85.750	76.050	65.695	55.200	44.195	33.445	23.030	13.035	3.565
<b>110</b>	82.210	72.655	62.910	52.580	42.395	31.750	21.815	11.570	3.100
<b>115</b>	77.955	69.155	59.810	49.750	40.045	30.010	20.390	10.100	2.600
<b>120</b>	73.575	65.235	56.350	46.880	37.660	28.185	18.800	8.445	2.180
<b>125</b>	68.780	60.920	52.370	43.190	34.450	25.610	15.990	7.105	1.885
<b>130</b>	62.450	54.610	46.650	38.515	30.805	22.905	13.600	6.075	1.845
<b>135</b>	54.925	48.115	41.240	34.115	27.325	19.655	11.840	5.300	0.000
<b>140</b>	47.820	41.975	36.150	29.965	23.620	16.535	10.330	4.735	0.000
<b>145</b>	41.515	37.050	31.205	25.590	19.490	14.040	8.990	4.275	0.000
<b>150</b>	36.210	31.390	26.340	20.955	16.260	12.070	7.815	4.005	0.000
<b>155</b>	29.695	25.295	21.230	17.100	13.645	10.435	6.685	3.875	0.000
<b>160</b>	22.400	19.425	16.595	13.875	11.420	8.615	5.845	3.585	0.000
<b>165</b>	16.325	14.730	12.995	11.085	8.970	6.915	5.010	3.250	0.000
<b>170</b>	11.695	10.480	9.095	7.755	6.520	5.240	3.960	2.785	0.000
<b>175</b>	6.620	6.075	5.470	4.840	4.190	3.500	2.870	2.495	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_359\_S6.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	108.39	N.A.	6.30
0-30	238.20	N.A.	13.90
0-40	406.72	N.A.	23.80
0-60	804.79	N.A.	47.00
0-80	1163.92	N.A.	68.00
0-90	1291.6	N.A.	75.50
10-90	1264.42	N.A.	73.90
20-40	298.33	N.A.	17.40
20-50	492.67	N.A.	28.80
40-70	591.63	N.A.	34.60
60-80	359.13	N.A.	21.00
70-80	165.57	N.A.	9.70
80-90	127.68	N.A.	7.50
90-110	191.04	N.A.	11.20
90-120	267.56	N.A.	15.60
90-130	328.48	N.A.	19.20
90-150	399.57	N.A.	23.40
90-180	419.59	N.A.	24.50
110-180	228.55	N.A.	13.40
0-180	1711.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	27.18
10-20	81.21
20-30	129.81
30-40	168.52
40-50	194.33
50-60	203.73
60-70	193.57
70-80	165.57
80-90	127.68
90-100	101.26
100-110	89.78
110-120	76.52
120-130	60.92
130-140	43.70
140-150	27.39
150-160	14.22
160-170	5.10
170-180	0.70

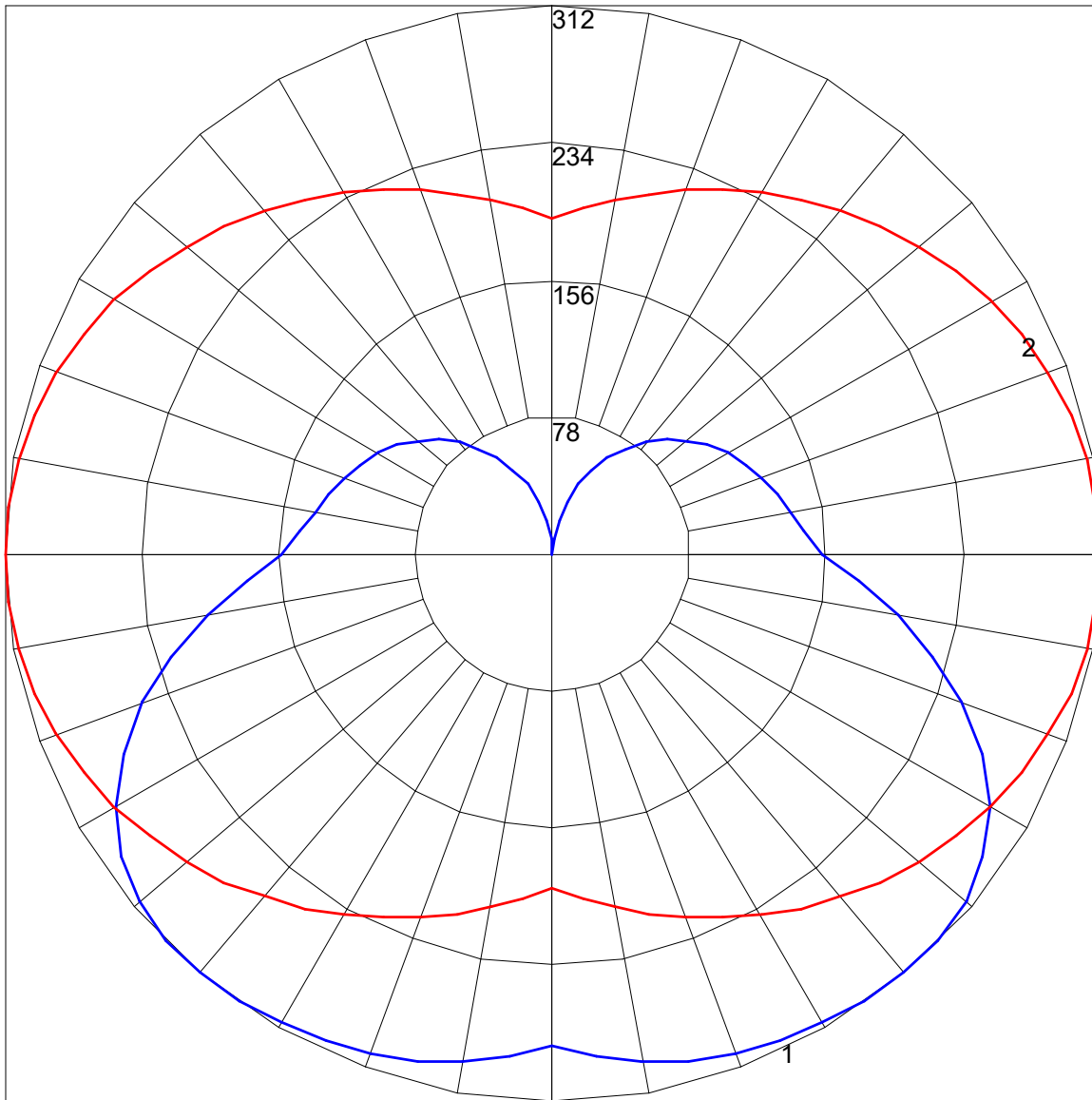
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_359\_S6.IES**

**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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	80	80	80	75
1	100	94	88	84	95	89	84	80	80	76	73	72	69	66	65	62	60	56
2	89	80	72	65	84	76	69	63	68	62	57	61	57	52	55	51	48	44
3	81	69	60	53	76	66	57	51	59	52	47	53	47	43	47	43	39	36
4	73	60	51	44	69	57	49	42	52	44	39	46	40	36	41	37	33	29
5	67	53	44	37	63	51	42	35	46	38	33	41	35	30	37	32	28	25
6	62	48	38	32	58	45	37	30	41	34	28	37	31	26	33	28	24	21
7	57	43	34	27	54	41	32	26	37	30	25	33	27	23	30	25	21	18
8	53	39	30	24	50	37	29	23	34	27	22	31	24	20	28	22	19	16
9	49	35	27	21	46	34	26	21	31	24	19	28	22	18	25	20	17	14
10	46	32	24	19	43	31	24	18	28	22	17	26	20	16	23	18	15	13

POLAR GRAPH



Maximum Candela = 312.495 Located At Horizontal Angle = 0, Vertical Angle = 40  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)