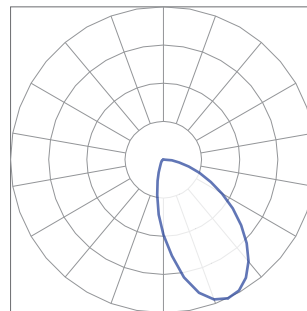


# ZipTwo™ | 707

707-Z2-4-48-X-X-X-0-Z-SO-35-A1-0-WH

The performance data in black text is confirmed through third party testing (see the following Light Laboratory report for details). The performance data in grey text is calculated by Vode, for reference only.

Technical Support: (707) 996-9898



## Details

Rail Type / Length	ZipTwo, 48"
LED Type	Zipper Board
Lumen Output	Standard Output
Color Temperature	3500K, 80+ CRI
Optics	85° White Asymmetric

## Performance Summary

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	68	70	72	73
Total Lumens, 4' rail (1219mm)	1764	1820	1857	1894
Lumens per foot (305mm)	441	455	464	473
Input Power (W), 4' rail (1219mm)	26.1	26.1	26.1	26.1
Watts per foot (305mm)	6.6	6.6	6.6	6.6
CRI	-	-	85	-

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**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_SO\_35\_A1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L091700104 (SOURCE REPORT FOR REFERENCE)  
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
 [ISSUEDATE] 11/1/2017  
 [MANUFAC] Vode Lighting  
 [LUMCAT] 707-Z2-48-Z-SO-35-A1-AL  
 [LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,  
 [MORE] 85° white asymmetric lens, standard output  
 [TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1857
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	26.17
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.36
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.62
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	4.02 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	68532	57563	18840
55	62055	49887	15663
65	51622	39712	13149
75	39955	29850	10587
85	30548	20941	6551

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>	521.780	521.780	521.780	521.780	521.780	521.780	521.780	521.780	521.780	521.780
<b>5</b>	671.559	670.979	669.053	665.979	661.641	656.154	649.890	642.188	633.708	624.556
<b>10</b>	845.327	843.877	839.736	832.996	822.881	811.037	796.584	779.833	760.461	739.952
<b>15</b>	1013.701	1011.671	1005.801	995.779	981.812	963.229	941.456	915.252	885.590	853.609
<b>20</b>	1152.216	1149.804	1142.960	1131.313	1114.261	1092.105	1065.901	1033.537	995.883	955.040
<b>25</b>	1242.557	1240.052	1233.219	1221.468	1204.509	1181.878	1154.038	1119.075	1077.559	1031.228
<b>30</b>	1278.007	1275.698	1269.527	1259.029	1243.230	1221.468	1194.406	1160.209	1118.020	1069.659
<b>35</b>	1259.516	1257.684	1252.382	1243.137	1228.985	1209.045	1184.290	1151.729	1110.990	1063.407
<b>40</b>	1192.666	1191.216	1186.692	1178.699	1166.368	1148.064	1124.666	1093.834	1054.927	1009.362
<b>45</b>	1086.908	1085.946	1081.897	1074.763	1063.117	1045.775	1023.236	993.563	956.292	912.943
<b>50</b>	951.664	950.608	947.047	939.820	928.545	912.270	890.219	860.929	825.201	784.450
<b>55</b>	798.324	797.361	793.695	787.536	776.550	760.948	739.662	711.822	679.656	641.793
<b>60</b>	640.355	639.682	636.504	630.622	620.994	606.158	586.415	562.240	534.110	501.839
<b>65</b>	489.323	488.743	486.040	481.040	472.944	460.033	443.851	423.528	401.952	376.432
<b>70</b>	353.313	352.826	350.714	346.759	340.216	330.391	317.863	302.458	285.024	267.194
<b>75</b>	231.942	231.652	230.121	227.221	222.511	215.574	207.095	196.597	185.032	173.281
<b>80</b>	132.739	132.344	131.289	129.363	126.370	122.044	116.742	110.478	103.646	96.906
<b>85</b>	59.717	59.531	58.858	57.606	55.958	53.557	50.854	47.583	44.312	40.936
<b>90</b>	22.922	22.829	22.353	21.773	20.903	19.743	18.595	17.052	15.602	14.059

Vert. 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>	<u>95</u>
<b>0</b>	521.780	521.780	521.780	521.780	521.780	521.780	521.780	521.780	521.780	521.780
<b>5</b>	614.638	603.467	592.192	580.731	568.887	556.452	544.411	532.370	519.657	507.906
<b>10</b>	717.889	692.949	668.473	642.373	616.749	590.266	564.734	539.690	514.367	490.471
<b>15</b>	818.844	780.019	741.298	701.522	660.191	618.779	579.675	541.430	503.672	468.710
<b>20</b>	908.036	857.368	805.353	751.796	695.455	639.485	586.705	536.326	487.107	442.308
<b>25</b>	976.906	916.794	853.992	788.116	720.685	649.403	584.292	522.650	463.698	411.197
<b>30</b>	1012.158	947.430	877.401	802.848	725.499	643.440	568.887	498.371	432.390	375.759
<b>35</b>	1005.894	939.728	867.286	788.684	703.447	620.032	537.289	462.446	393.286	335.112
<b>40</b>	953.590	888.966	818.357	740.428	655.377	571.961	489.126	415.060	347.536	289.930
<b>45</b>	860.059	799.472	733.491	661.061	582.169	502.036	418.238	360.435	298.793	247.451
<b>50</b>	737.830	683.507	623.396	558.088	491.921	418.134	359.762	301.206	248.994	207.095
<b>55</b>	600.764	554.724	504.728	451.275	398.773	343.000	291.380	243.310	201.504	169.337
<b>60</b>	466.970	431.334	393.194	352.060	310.926	268.552	228.288	192.548	161.530	135.047
<b>65</b>	349.752	322.677	293.689	263.726	233.972	204.299	175.021	147.761	124.642	104.702
<b>70</b>	248.031	229.054	209.113	188.407	168.084	147.668	127.240	108.750	91.698	77.639
<b>75</b>	160.950	148.816	136.196	123.296	110.478	97.579	84.471	72.430	61.457	52.212
<b>80</b>	89.772	82.940	75.713	68.776	61.747	54.613	47.293	40.646	34.487	29.568
<b>85</b>	37.561	34.290	31.018	27.747	24.464	21.379	18.108	15.219	12.806	11.078
<b>90</b>	12.424	10.881	9.245	7.517	5.974	4.234	2.703	1.450	0.766	0.870

Vert. Horizontal Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
<b>0</b>	521.780	521.780	521.780	521.780	521.780	521.780	521.780	521.780	521.780	521.780
<b>5</b>	496.538	485.274	474.196	464.278	454.163	445.394	437.401	429.502	422.762	416.788
<b>10</b>	468.037	446.264	425.848	407.636	390.108	374.982	361.212	348.592	337.514	328.176
<b>15</b>	436.821	406.383	379.227	355.238	332.607	313.722	297.157	282.321	269.700	259.109
<b>20</b>	402.624	366.316	334.138	307.075	282.031	262.090	245.050	230.306	218.463	208.533
<b>25</b>	366.316	325.763	291.380	263.343	238.693	219.611	204.114	191.493	181.470	173.188
<b>30</b>	326.053	285.696	251.592	224.820	202.176	185.809	172.898	162.597	154.883	148.921
<b>35</b>	285.696	246.871	215.180	191.586	172.805	158.839	148.724	141.021	135.337	130.999

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_SO\_35\_A1.IES**

**CANDELA TABULATION - (Cont.)**

<b>40</b>	245.618	210.470	183.303	163.270	147.854	137.066	129.166	123.389	119.051	115.872
<b>45</b>	208.533	178.582	155.463	139.281	126.858	118.482	112.404	107.787	104.516	102.010
<b>50</b>	174.638	149.199	130.709	117.902	107.973	101.430	96.512	93.241	90.642	88.612
<b>55</b>	143.330	123.192	108.750	98.438	90.932	85.724	81.873	78.892	76.769	75.226
<b>60</b>	115.107	99.690	89.007	81.003	74.750	70.609	67.431	65.018	63.382	62.037
<b>65</b>	91.698	78.509	70.319	64.055	59.531	56.156	53.650	51.724	50.379	49.219
<b>70</b>	67.036	58.951	52.780	48.163	44.892	42.386	40.554	39.104	38.048	37.178
<b>75</b>	45.368	40.264	36.215	33.234	30.926	29.383	28.026	26.970	26.297	25.717
<b>80</b>	25.914	23.212	21.100	19.453	18.305	17.342	16.669	16.089	15.799	15.312
<b>85</b>	10.022	9.350	8.665	8.190	7.702	7.412	7.227	7.134	7.030	7.030
<b>90</b>	0.963	0.963	0.963	0.963	0.963	0.870	0.870	0.870	0.870	0.673

**Vert. Angles**      **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
<b>0</b>	521.780	521.780	521.780	521.780	521.780	521.780	521.780
<b>5</b>	411.777	407.253	403.692	400.606	398.680	397.428	397.045
<b>10</b>	319.986	313.142	307.748	303.317	300.243	298.503	297.830
<b>15</b>	250.340	242.927	237.243	232.719	229.726	227.801	227.325
<b>20</b>	200.251	194.381	189.567	185.809	183.303	181.668	181.285
<b>25</b>	167.214	162.493	158.932	156.240	154.315	153.155	152.958
<b>30</b>	144.490	141.114	138.608	136.776	135.430	134.757	134.467
<b>35</b>	127.728	125.222	123.586	122.334	121.371	120.791	120.791
<b>40</b>	113.367	111.638	110.293	109.330	108.750	108.367	108.263
<b>45</b>	100.178	98.832	97.765	97.185	97.185	96.906	96.709
<b>50</b>	87.174	86.211	85.341	84.866	84.576	84.378	84.378
<b>55</b>	74.078	73.208	72.628	72.140	71.955	71.862	71.862
<b>60</b>	61.167	60.390	59.914	59.531	59.241	59.148	59.148
<b>65</b>	48.546	47.873	47.386	47.108	46.910	46.713	46.620
<b>70</b>	36.505	36.030	35.635	35.345	35.160	34.962	35.067
<b>75</b>	25.242	24.847	24.557	24.372	24.174	23.989	24.082
<b>80</b>	15.126	14.929	14.744	14.639	14.546	14.349	14.454
<b>85</b>	7.030	7.030	7.030	7.030	6.937	6.844	6.937
<b>90</b>	0.673	0.673	0.673	0.673	0.580	0.580	0.580

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_SO\_35\_A1.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	211.36	N.A.	11.40
0-30	485.66	N.A.	26.20
0-40	841.87	N.A.	45.30
0-60	1514.79	N.A.	81.60
0-80	1826.68	N.A.	98.40
0-90	1856.75	N.A.	100.00
10-90	1805.91	N.A.	97.30
20-40	630.51	N.A.	34.00
20-50	998.06	N.A.	53.80
40-70	879.01	N.A.	47.30
60-80	311.90	N.A.	16.80
70-80	105.80	N.A.	5.70
80-90	30.07	N.A.	1.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1856.75	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	50.84
10-20	160.52
20-30	274.30
30-40	356.21
40-50	367.54
50-60	305.38
60-70	206.09
70-80	105.80
80-90	30.07
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

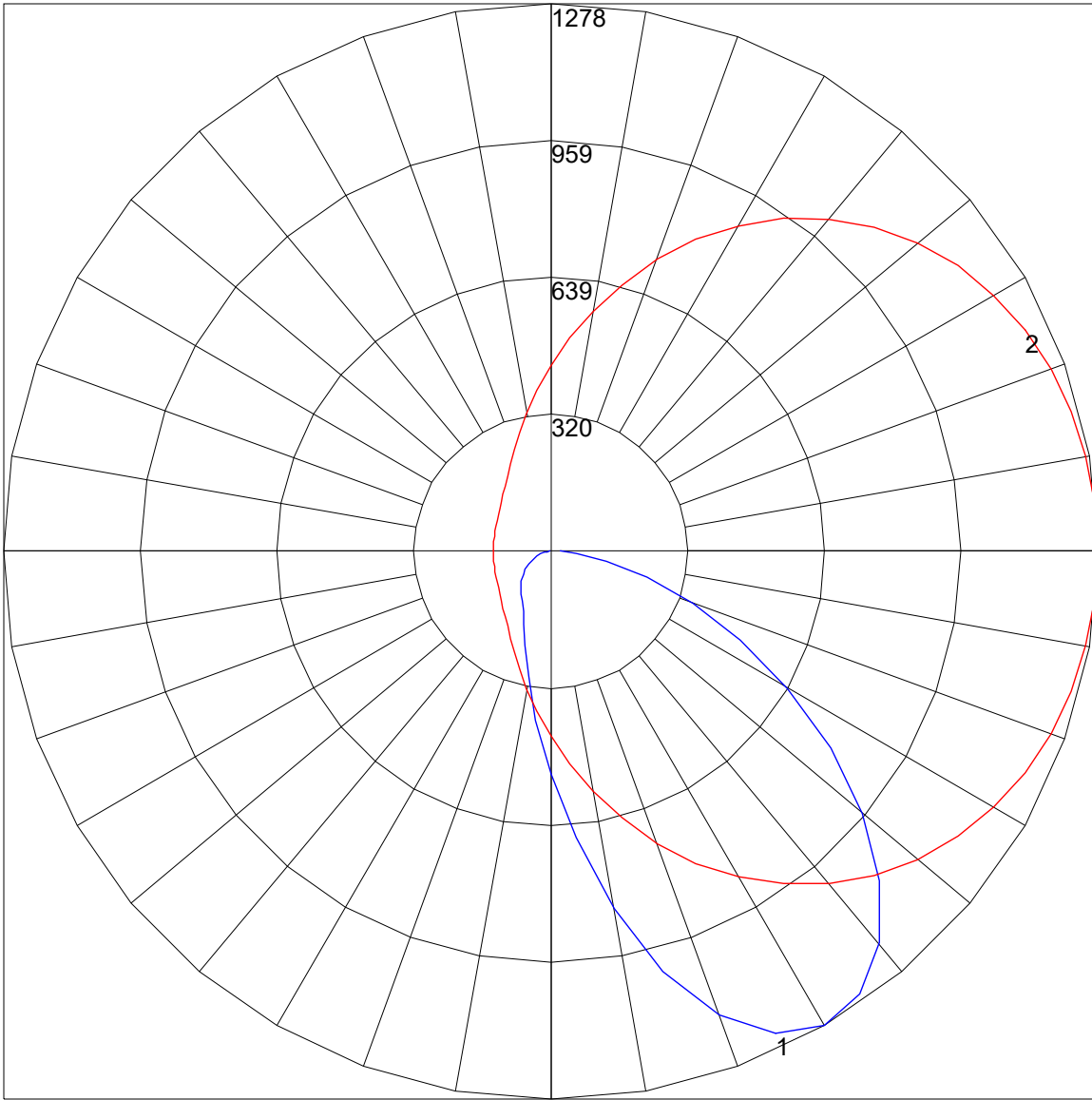
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_SO\_35\_A1.IES**

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1278.007 Located At Horizontal Angle = 0, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)