

IES Report

ZipTwo® | 707 | 85° Asymmetric | 80 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-35-A1-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	66	68	70	71
Total Lumens, 4' rail length (1219mm)	2584	2665	2720	2774
Lumens per foot (305mm)	646	666	680	694
Input Power (W), 4' rail length (1219mm)	39.4	39.4	39.4	39.4
Watts per foot (305mm)	9.9	9.9	9.9	9.9
CRI	85	85	85	85

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\_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-HO-35-A1-AL  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] 85° white asymmetric lens, high output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2785
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	39.36
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	102798	86345	28259
55	93082	74831	23495
65	77433	59568	19724
75	59932	44775	15880
85	45822	31412	9827

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>
0	782.669	782.669	782.669	782.669	782.669	782.669	782.669	782.669	782.669	782.669
5	1007.338	1006.468	1003.580	998.969	992.461	984.231	974.835	963.281	950.562	936.833
10	1267.990	1265.815	1259.603	1249.494	1234.321	1216.556	1194.875	1169.750	1140.692	1109.929
15	1520.551	1517.506	1508.702	1493.668	1472.719	1444.844	1412.184	1372.877	1328.386	1280.414
20	1728.325	1724.705	1714.439	1696.970	1671.392	1638.158	1598.851	1550.305	1493.825	1432.559
25	1863.836	1860.077	1849.829	1832.203	1806.764	1772.816	1731.056	1678.613	1616.338	1546.843
30	1917.010	1913.548	1904.291	1888.544	1864.845	1832.203	1791.608	1740.313	1677.029	1604.489
35	1889.275	1886.525	1878.574	1864.706	1843.478	1813.567	1776.436	1727.594	1666.485	1595.110
40	1788.998	1786.823	1780.037	1768.049	1749.553	1722.095	1687.000	1640.750	1582.391	1514.044
45	1630.363	1628.918	1622.846	1612.145	1594.675	1568.662	1534.854	1490.345	1434.439	1369.415
50	1427.496	1425.913	1420.571	1409.731	1392.818	1368.406	1335.328	1291.393	1237.801	1176.675
55	1197.485	1196.041	1190.543	1181.303	1164.826	1141.423	1109.494	1067.734	1019.483	962.690
60	960.532	959.523	954.755	945.934	931.492	909.237	879.622	843.361	801.166	752.759
65	733.984	733.114	729.060	721.561	709.415	690.049	665.776	635.291	602.927	564.647
70	529.969	529.238	526.072	520.138	510.325	495.587	476.795	453.688	427.535	400.792
75	347.913	347.478	345.181	340.831	333.767	323.362	310.642	294.895	277.547	259.921
80	199.108	198.517	196.933	194.045	189.556	183.065	175.114	165.718	155.469	145.360
85	89.575	89.297	88.288	86.408	83.938	80.336	76.282	71.375	66.468	61.405
90	34.382	34.243	33.530	32.660	31.355	29.615	27.892	25.578	23.403	21.089

Vert. Horizontal Angles  
 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>
0	782.669	782.669	782.669	782.669	782.669	782.669	782.669	782.669	782.669	782.669
5	921.956	905.200	888.287	871.096	853.331	834.678	816.617	798.556	779.485	761.859
10	1076.834	1039.424	1002.710	963.560	925.123	885.399	847.102	809.535	771.551	735.707
15	1228.266	1170.028	1111.947	1052.282	990.286	928.168	869.513	812.145	755.508	703.064
20	1362.055	1286.051	1208.030	1127.694	1043.182	959.227	880.057	804.489	730.661	663.462
25	1465.358	1375.192	1280.988	1182.173	1081.027	974.104	876.438	783.974	695.548	616.795
30	1518.237	1421.145	1316.101	1204.271	1088.248	965.161	853.331	747.556	648.585	563.638
35	1508.841	1409.591	1300.928	1183.026	1055.171	930.047	805.933	693.668	589.930	502.669
40	1430.384	1333.449	1227.535	1110.642	983.065	857.942	733.688	622.589	521.304	434.896
45	1290.088	1199.208	1100.237	991.591	873.254	753.055	627.357	540.653	448.189	371.177
50	1106.744	1025.260	935.093	837.131	737.882	627.200	539.644	451.808	373.491	310.642
55	901.146	832.085	757.091	676.912	598.160	514.501	437.071	364.965	302.255	254.005
60	700.454	647.002	589.790	528.090	466.390	402.827	342.432	288.823	242.295	202.571
65	524.627	484.016	440.533	395.589	350.958	306.449	262.531	221.641	186.963	157.052
70	372.047	343.580	313.670	282.611	252.126	221.502	190.861	163.125	137.547	116.458
75	241.425	223.225	204.293	184.945	165.718	146.369	126.707	108.646	92.185	78.317
80	134.659	124.410	113.570	103.165	92.620	81.919	70.940	60.970	51.730	44.353
85	56.341	51.434	46.528	41.621	36.697	32.068	27.161	22.829	19.210	16.617
90	18.635	16.321	13.868	11.275	8.961	6.351	4.054	2.175	1.148	1.305

Vert. Horizontal Angles  
 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>
0	782.669	782.669	782.669	782.669	782.669	782.669	782.669	782.669	782.669	782.669
5	744.807	727.912	711.295	696.418	681.245	668.090	656.102	644.252	634.143	625.182
10	702.055	669.395	638.771	611.453	585.162	562.472	541.819	522.887	506.270	492.263
15	655.232	609.574	568.841	532.858	498.910	470.583	445.736	423.481	404.550	388.664
20	603.937	549.475	501.207	460.613	423.046	393.136	367.575	345.460	327.694	312.800
25	549.475	488.644	437.071	395.015	358.040	329.417	306.170	287.239	272.206	259.782
30	489.079	428.545	377.389	337.229	303.265	278.713	259.347	243.896	232.325	223.381
35	428.545	370.307	322.770	287.378	259.208	238.258	223.085	211.532	203.006	196.498

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	368.428	315.706	274.955	244.905	221.780	205.598	193.749	185.084	178.576	173.809
<b>45</b>	312.800	267.873	233.195	208.922	190.286	177.724	168.606	161.681	156.774	153.016
<b>50</b>	261.957	223.799	196.063	176.854	161.959	152.146	144.768	139.861	135.964	132.919
<b>55</b>	214.994	184.788	163.125	147.656	136.399	128.586	122.809	118.337	115.153	112.839
<b>60</b>	172.660	149.536	133.510	121.504	112.126	105.914	101.146	97.527	95.074	93.055
<b>65</b>	137.547	117.763	105.479	96.083	89.297	84.233	80.475	77.587	75.568	73.828
<b>70</b>	100.555	88.427	79.170	72.245	67.338	63.580	60.830	58.655	57.072	55.767
<b>75</b>	68.051	60.395	54.323	49.851	46.388	44.074	42.038	40.455	39.446	38.576
<b>80</b>	38.872	34.817	31.651	29.180	27.457	26.013	25.004	24.134	23.699	22.968
<b>85</b>	15.034	14.024	12.998	12.284	11.554	11.119	10.840	10.701	10.544	10.544
<b>90</b>	1.444	1.444	1.444	1.444	1.444	1.305	1.305	1.305	1.305	1.009

**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>	782.669	782.669	782.669	782.669	782.669	782.669	782.669
<b>5</b>	617.665	610.879	605.537	600.909	598.021	596.141	595.567
<b>10</b>	479.979	469.713	461.622	454.975	450.364	447.754	446.745
<b>15</b>	375.509	364.391	355.865	349.079	344.590	341.701	340.988
<b>20</b>	300.376	291.572	284.351	278.713	274.955	272.501	271.927
<b>25</b>	250.821	243.739	238.397	234.361	231.472	229.732	229.436
<b>30</b>	216.734	211.671	207.913	205.163	203.145	202.136	201.701
<b>35</b>	191.591	187.833	185.380	183.500	182.056	181.186	181.186
<b>40</b>	170.050	167.458	165.439	163.995	163.125	162.551	162.394
<b>45</b>	150.266	148.248	146.647	145.777	145.777	145.360	145.064
<b>50</b>	130.761	129.317	128.012	127.298	126.863	126.568	126.568
<b>55</b>	111.116	109.811	108.941	108.211	107.932	107.793	107.793
<b>60</b>	91.750	90.584	89.871	89.297	88.862	88.723	88.723
<b>65</b>	72.819	71.810	71.079	70.661	70.366	70.070	69.931
<b>70</b>	54.758	54.044	53.453	53.018	52.739	52.444	52.600
<b>75</b>	37.862	37.271	36.836	36.557	36.262	35.983	36.122
<b>80</b>	22.690	22.394	22.115	21.959	21.820	21.524	21.680
<b>85</b>	10.544	10.544	10.544	10.544	10.405	10.266	10.405
<b>90</b>	1.009	1.009	1.009	1.009	0.870	0.870	0.870

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	317.04	N.A.	11.40
0-30	728.49	N.A.	26.20
0-40	1262.81	N.A.	45.30
0-60	2272.18	N.A.	81.60
0-80	2740.03	N.A.	98.40
0-90	2785.13	N.A.	100.00
10-90	2708.87	N.A.	97.30
20-40	945.77	N.A.	34.00
20-50	1497.08	N.A.	53.80
40-70	1318.51	N.A.	47.30
60-80	467.84	N.A.	16.80
70-80	158.71	N.A.	5.70
80-90	45.10	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	2785.13	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	76.26
10-20	240.78
20-30	411.46
30-40	534.31
40-50	551.31
50-60	458.06
60-70	309.14
70-80	158.71
80-90	45.10
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

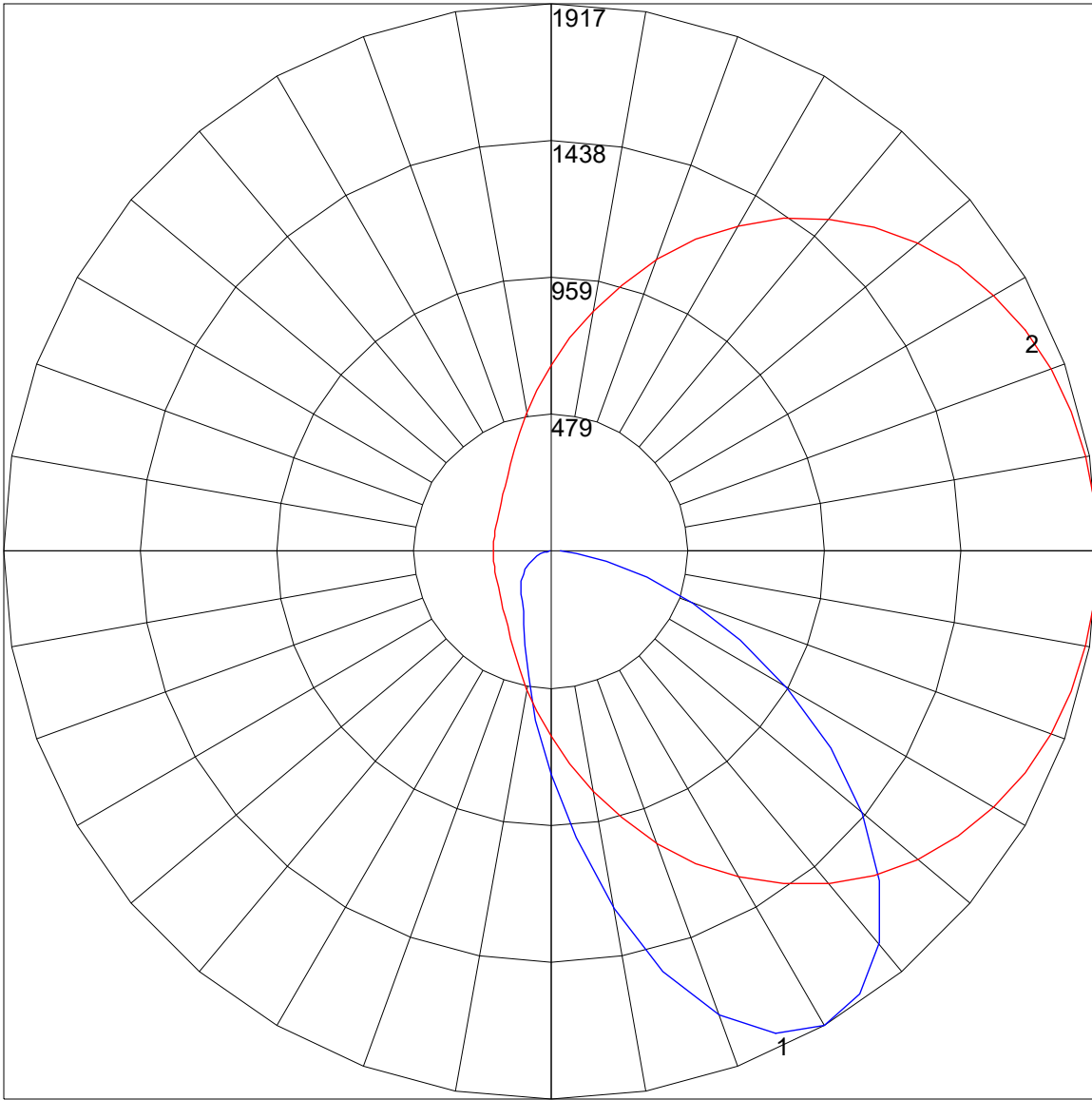
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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 = 1917.01 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.)