

**IES Report**

**ZipTwo® | 707 | 85° Asymmetric | 80 CRI | LO**

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	54	56	57	58
Total Lumens, 4' rail length (1219mm)	873	901	919	938
Lumens per foot (305mm)	218	225	230	234
Input Power (W), 4' rail length (1219mm)	16.3	16.3	16.3	16.3
Watts per foot (305mm)	4.1	4.1	4.1	4.1
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\_LO\_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-LO-35-A1-AL  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] 85° white asymmetric lens, low output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	928
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	16.25
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	34266	28782	9420
55	31027	24944	7832
65	25811	19856	6575
75	19977	14925	5293
85	15274	10470	3275

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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>	260.890	260.890	260.890	260.890	260.890	260.890	260.890	260.890	260.890	260.890
<b>5</b>	335.779	335.489	334.527	332.990	330.820	328.077	324.945	321.094	316.854	312.278
<b>10</b>	422.663	421.938	419.868	416.498	411.440	405.519	398.292	389.917	380.231	369.976
<b>15</b>	506.850	505.835	502.901	497.889	490.906	481.615	470.728	457.626	442.795	426.805
<b>20</b>	576.108	574.902	571.480	565.657	557.131	546.053	532.950	516.768	497.942	477.520
<b>25</b>	621.279	620.026	616.610	610.734	602.255	590.939	577.019	559.538	538.779	515.614
<b>30</b>	639.003	637.849	634.764	629.515	621.615	610.734	597.203	580.104	559.010	534.830
<b>35</b>	629.758	628.842	626.191	621.569	614.493	604.522	592.145	575.865	555.495	531.703
<b>40</b>	596.333	595.608	593.346	589.350	583.184	574.032	562.333	546.917	527.464	504.681
<b>45</b>	543.454	542.973	540.949	537.382	531.558	522.887	511.618	496.782	478.146	456.472
<b>50</b>	475.832	475.304	473.524	469.910	464.273	456.135	445.109	430.464	412.600	392.225
<b>55</b>	399.162	398.680	396.848	393.768	388.275	380.474	369.831	355.911	339.828	320.897
<b>60</b>	320.177	319.841	318.252	315.311	310.497	303.079	293.207	281.120	267.055	250.920
<b>65</b>	244.661	244.371	243.020	240.520	236.472	230.016	221.925	211.764	200.976	188.216
<b>70</b>	176.656	176.413	175.357	173.379	170.108	165.196	158.932	151.229	142.512	133.597
<b>75</b>	115.971	115.826	115.060	113.610	111.256	107.787	103.547	98.298	92.516	86.640
<b>80</b>	66.369	66.172	65.644	64.682	63.185	61.022	58.371	55.239	51.823	48.453
<b>85</b>	29.858	29.766	29.429	28.803	27.979	26.779	25.427	23.792	22.156	20.468
<b>90</b>	11.461	11.414	11.177	10.887	10.452	9.872	9.297	8.526	7.801	7.030

**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>	<u>95</u>
<b>0</b>	260.890	260.890	260.890	260.890	260.890	260.890	260.890	260.890	260.890	260.890
<b>5</b>	307.319	301.733	296.096	290.365	284.444	278.226	272.206	266.185	259.828	253.953
<b>10</b>	358.945	346.475	334.237	321.187	308.374	295.133	282.367	269.845	257.184	245.236
<b>15</b>	409.422	390.009	370.649	350.761	330.095	309.389	289.838	270.715	251.836	234.355
<b>20</b>	454.018	428.684	402.677	375.898	347.727	319.742	293.352	268.163	243.554	221.154
<b>25</b>	488.453	458.397	426.996	394.058	360.342	324.701	292.146	261.325	231.849	205.598
<b>30</b>	506.079	473.715	438.700	401.424	362.749	321.720	284.444	249.185	216.195	187.879
<b>35</b>	502.947	469.864	433.643	394.342	351.724	310.016	268.644	231.223	196.643	167.556
<b>40</b>	476.795	444.483	409.178	370.214	327.688	285.981	244.563	207.530	173.768	144.965
<b>45</b>	430.029	399.736	366.746	330.530	291.085	251.018	209.119	180.218	149.396	123.726
<b>50</b>	368.915	341.753	311.698	279.044	245.961	209.067	179.881	150.603	124.497	103.547
<b>55</b>	300.382	277.362	252.364	225.637	199.387	171.500	145.690	121.655	100.752	84.668
<b>60</b>	233.485	215.667	196.597	176.030	155.463	134.276	114.144	96.274	80.765	67.524
<b>65</b>	174.876	161.339	146.844	131.863	116.986	102.150	87.510	73.880	62.321	52.351
<b>70</b>	124.016	114.527	104.557	94.204	84.042	73.834	63.620	54.375	45.849	38.819
<b>75</b>	80.475	74.408	68.098	61.648	55.239	48.790	42.236	36.215	30.728	26.106
<b>80</b>	44.886	41.470	37.857	34.388	30.873	27.306	23.647	20.323	17.243	14.784
<b>85</b>	18.780	17.145	15.509	13.874	12.232	10.689	9.054	7.610	6.403	5.539
<b>90</b>	6.212	5.440	4.623	3.758	2.987	2.117	1.351	0.725	0.383	0.435

**Vert. Angles**      **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>	260.890	260.890	260.890	260.890	260.890	260.890	260.890	260.890	260.890	260.890
<b>5</b>	248.269	242.637	237.098	232.139	227.082	222.697	218.701	214.751	211.381	208.394
<b>10</b>	234.018	223.132	212.924	203.818	195.054	187.491	180.606	174.296	168.757	164.088
<b>15</b>	218.411	203.191	189.614	177.619	166.303	156.861	148.579	141.160	134.850	129.555
<b>20</b>	201.312	183.158	167.069	153.538	141.015	131.045	122.525	115.153	109.231	104.267
<b>25</b>	183.158	162.881	145.690	131.672	119.347	109.806	102.057	95.746	90.735	86.594
<b>30</b>	163.026	142.848	125.796	112.410	101.088	92.904	86.449	81.299	77.442	74.460
<b>35</b>	142.848	123.436	107.590	95.793	86.403	79.419	74.362	70.511	67.669	65.499

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	122.809	105.235	91.652	81.635	73.927	68.533	64.583	61.695	59.525	57.936
<b>45</b>	104.267	89.291	77.732	69.641	63.429	59.241	56.202	53.894	52.258	51.005
<b>50</b>	87.319	74.600	65.354	58.951	53.986	50.715	48.256	46.620	45.321	44.306
<b>55</b>	71.665	61.596	54.375	49.219	45.466	42.862	40.936	39.446	38.384	37.613
<b>60</b>	57.553	49.845	44.503	40.501	37.375	35.305	33.715	32.509	31.691	31.018
<b>65</b>	45.849	39.254	35.160	32.028	29.766	28.078	26.825	25.862	25.189	24.609
<b>70</b>	33.518	29.476	26.390	24.082	22.446	21.193	20.277	19.552	19.024	18.589
<b>75</b>	22.684	20.132	18.108	16.617	15.463	14.691	14.013	13.485	13.149	12.859
<b>80</b>	12.957	11.606	10.550	9.727	9.152	8.671	8.335	8.045	7.900	7.656
<b>85</b>	5.011	4.675	4.333	4.095	3.851	3.706	3.613	3.567	3.515	3.515
<b>90</b>	0.481	0.481	0.481	0.481	0.481	0.435	0.435	0.435	0.435	0.336

**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>	260.890	260.890	260.890	260.890	260.890	260.890	260.890
<b>5</b>	205.888	203.626	201.846	200.303	199.340	198.714	198.522
<b>10</b>	159.993	156.571	153.874	151.658	150.121	149.251	148.915
<b>15</b>	125.170	121.464	118.622	116.360	114.863	113.900	113.663
<b>20</b>	100.125	97.191	94.784	92.904	91.652	90.834	90.642
<b>25</b>	83.607	81.246	79.466	78.120	77.157	76.577	76.479
<b>30</b>	72.245	70.557	69.304	68.388	67.715	67.379	67.234
<b>35</b>	63.864	62.611	61.793	61.167	60.685	60.395	60.395
<b>40</b>	56.683	55.819	55.146	54.665	54.375	54.184	54.131
<b>45</b>	50.089	49.416	48.882	48.592	48.592	48.453	48.355
<b>50</b>	43.587	43.106	42.671	42.433	42.288	42.189	42.189
<b>55</b>	37.039	36.604	36.314	36.070	35.977	35.931	35.931
<b>60</b>	30.583	30.195	29.957	29.766	29.621	29.574	29.574
<b>65</b>	24.273	23.937	23.693	23.554	23.455	23.357	23.310
<b>70</b>	18.253	18.015	17.818	17.673	17.580	17.481	17.533
<b>75</b>	12.621	12.424	12.279	12.186	12.087	11.994	12.041
<b>80</b>	7.563	7.465	7.372	7.320	7.273	7.175	7.227
<b>85</b>	3.515	3.515	3.515	3.515	3.468	3.422	3.468
<b>90</b>	0.336	0.336	0.336	0.336	0.290	0.290	0.290

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	105.68	N.A.	11.40
0-30	242.83	N.A.	26.20
0-40	420.94	N.A.	45.30
0-60	757.39	N.A.	81.60
0-80	913.34	N.A.	98.40
0-90	928.38	N.A.	100.00
10-90	902.96	N.A.	97.30
20-40	315.26	N.A.	34.00
20-50	499.03	N.A.	53.80
40-70	439.50	N.A.	47.30
60-80	155.95	N.A.	16.80
70-80	52.90	N.A.	5.70
80-90	15.03	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	928.38	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	25.42
10-20	80.26
20-30	137.15
30-40	178.10
40-50	183.77
50-60	152.69
60-70	103.05
70-80	52.90
80-90	15.03
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

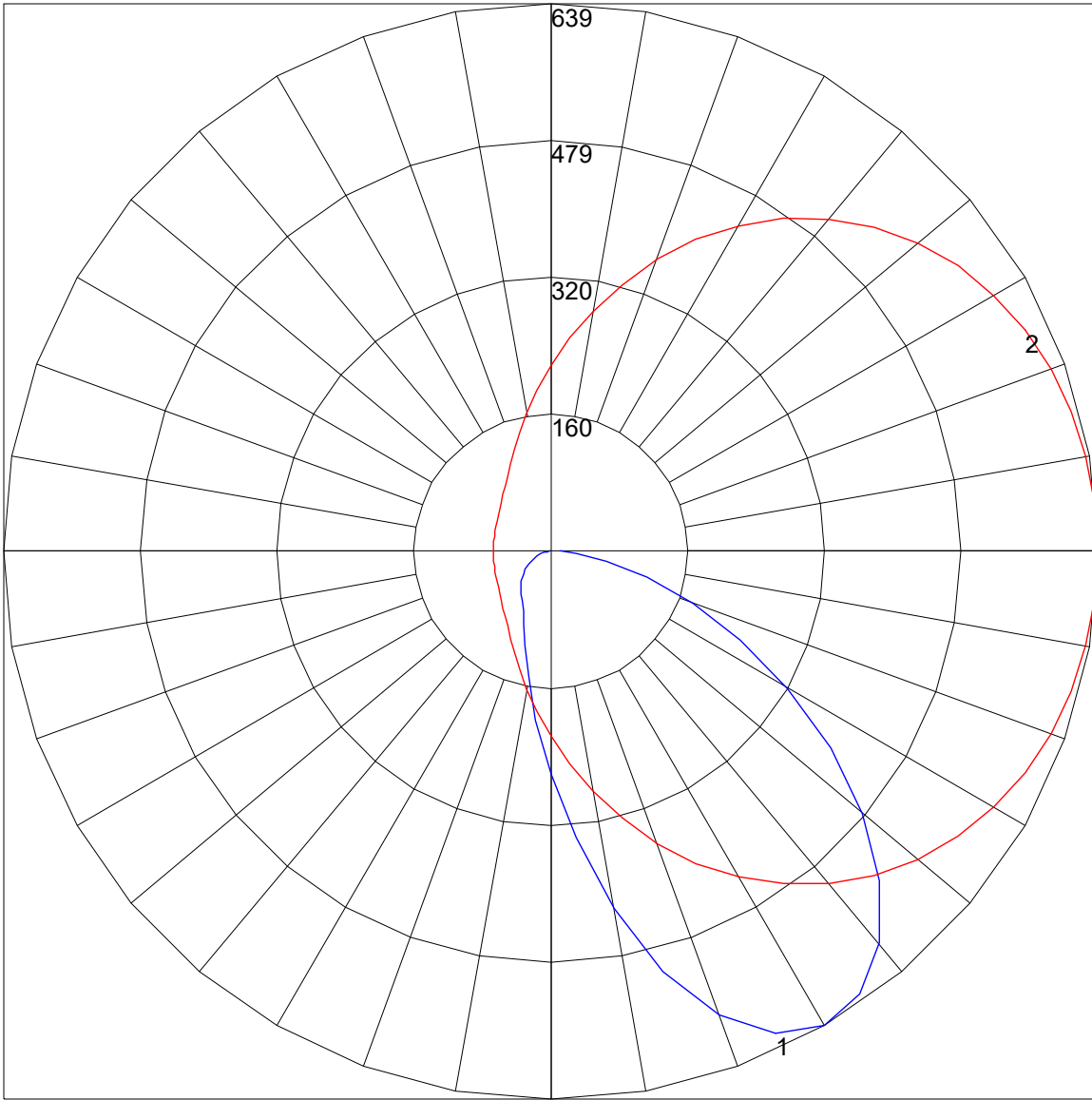
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	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	56	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 = 639.003 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.)