

IES Report

ZipTwo® | 707 | 85° Asymmetric | 90 CRI | SO

707-Z2-4-48-XX-XX-X-0-Z-SO-359-A1-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	42	43	44	45
Total Lumens, 4' rail length (1219mm)	1083	1117	1140	1163
Lumens per foot (305mm)	271	279	285	291
Input Power (W), 4' rail length (1219mm)	26.2	26.2	26.2	26.2
Watts per foot (305mm)	6.6	6.6	6.6	6.6
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\_SO\_359\_A1-BL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L071704229 (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-359-A1-BL  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] 85° black 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	1140
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	26.19
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.10
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.40
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	42339	35433	11813
55	37369	28461	8137
65	31417	21578	5665
75	25680	16195	4245
85	25046	13519	2818

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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>	426.176	426.176	426.176	426.176	426.176	426.176	426.176	426.176	426.176	426.176
<b>5</b>	546.465	545.873	544.435	542.232	538.927	534.776	530.033	524.025	517.752	510.724
<b>10</b>	679.442	678.596	675.628	670.885	664.540	656.156	645.650	633.706	620.242	604.574
<b>15</b>	781.759	780.484	777.097	771.089	762.787	751.771	738.143	722.384	704.004	683.420
<b>20</b>	845.111	844.183	840.286	834.187	825.547	813.940	799.711	781.840	760.665	736.277
<b>25</b>	868.489	867.469	864.511	858.748	850.190	838.930	825.037	807.085	785.482	760.328
<b>30</b>	858.320	857.137	854.087	848.926	840.959	830.209	816.571	799.119	777.781	752.709
<b>35</b>	817.836	816.826	813.940	809.115	801.149	790.816	777.434	760.247	738.817	714.173
<b>40</b>	753.301	752.536	749.822	744.743	737.042	726.709	712.980	695.875	673.679	648.363
<b>45</b>	671.486	670.466	667.417	662.500	654.371	643.192	628.198	609.654	587.632	561.969
<b>50</b>	577.973	576.871	573.740	568.405	560.102	547.903	531.899	512.754	490.141	464.222
<b>55</b>	480.746	479.808	476.677	471.169	462.529	450.340	434.663	414.681	391.303	366.149
<b>60</b>	385.040	384.101	381.143	375.635	367.588	355.898	341.159	323.207	301.604	278.909
<b>65</b>	297.799	296.953	294.321	289.578	281.959	271.544	258.417	242.066	223.513	204.541
<b>70</b>	217.668	216.913	214.710	210.732	204.459	195.901	185.314	172.278	157.794	143.137
<b>75</b>	149.073	148.471	146.778	143.565	138.730	132.386	124.420	114.934	104.428	94.013
<b>80</b>	92.657	92.147	90.800	88.424	85.119	80.549	75.215	68.860	62.169	55.478
<b>85</b>	48.960	48.613	47.603	46.073	43.870	40.994	37.689	34.048	30.151	26.428
<b>90</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>	<u>95</u>
<b>0</b>	426.176	426.176	426.176	426.176	426.176	426.176	426.176	426.176	426.176	426.176
<b>5</b>	502.595	494.292	485.234	475.657	466.007	456.185	445.505	435.265	425.177	414.171
<b>10</b>	587.296	569.252	549.515	528.513	507.674	485.234	462.529	440.507	418.486	395.372
<b>15</b>	658.349	632.522	603.473	572.220	540.539	507.164	472.699	439.243	406.205	372.157
<b>20</b>	707.819	677.076	641.417	602.371	561.887	519.619	474.728	429.757	386.988	339.976
<b>25</b>	730.177	695.538	657.421	613.469	566.875	517.497	464.569	412.733	360.815	311.936
<b>30</b>	722.558	687.235	647.598	602.963	553.248	496.577	440.263	383.510	328.114	273.829
<b>35</b>	685.114	649.118	609.909	563.662	514.029	457.960	400.360	338.201	286.028	233.682
<b>40</b>	619.222	584.919	545.873	501.830	454.318	400.962	338.538	292.373	236.732	190.057
<b>45</b>	531.899	498.780	461.856	421.117	377.920	328.624	281.785	233.682	187.354	148.135
<b>50</b>	433.908	403.073	369.362	330.062	297.626	257.734	216.995	178.378	142.882	111.292
<b>55</b>	336.753	311.855	282.469	252.062	222.166	191.668	159.650	130.856	104.683	84.864
<b>60</b>	254.602	231.050	206.836	182.774	159.824	137.129	114.424	93.932	75.296	59.038
<b>65</b>	184.722	165.923	147.206	129.673	112.394	96.135	80.468	66.402	53.703	42.514
<b>70</b>	128.234	113.914	100.786	88.169	76.480	65.555	54.968	45.818	37.434	30.151
<b>75</b>	83.681	74.276	65.137	56.834	49.297	42.350	35.659	29.896	24.643	20.074
<b>80</b>	48.868	43.115	37.434	32.528	28.121	24.052	20.247	16.942	13.974	11.434
<b>85</b>	22.950	19.737	16.942	14.311	12.026	10.159	8.303	6.773	5.508	4.488
<b>90</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>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>	426.176	426.176	426.176	426.176	426.176	426.176	426.176	426.176	426.176	426.176
<b>5</b>	404.257	394.271	384.948	375.635	366.996	359.030	351.584	344.291	338.283	332.520
<b>10</b>	374.279	353.440	334.387	316.435	298.982	283.478	268.913	255.867	244.606	234.529
<b>15</b>	341.669	311.692	284.672	259.937	236.987	217.076	198.951	183.284	170.411	159.059
<b>20</b>	306.102	269.341	237.150	207.682	183.029	161.180	143.228	127.724	115.270	104.856
<b>25</b>	267.730	228.092	191.413	162.445	138.057	117.983	101.806	88.006	78.173	69.880
<b>30</b>	227.409	187.180	152.368	124.930	102.398	85.802	71.910	61.496	53.866	47.940
<b>35</b>	187.017	149.318	117.902	94.095	75.123	61.741	51.663	44.044	38.372	34.303

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	149.410	115.444	88.934	70.125	55.304	45.145	37.771	32.273	28.376	25.582
<b>45</b>	114.515	87.832	66.739	52.346	41.249	33.966	28.631	24.735	21.848	19.819
<b>50</b>	86.302	64.709	50.143	39.556	31.763	26.255	22.450	19.482	17.360	15.841
<b>55</b>	62.934	48.450	38.026	30.488	24.735	20.839	17.789	15.667	13.974	12.791
<b>60</b>	46.410	36.679	28.968	23.633	19.655	16.687	14.402	12.617	11.261	10.251
<b>65</b>	33.966	27.356	22.022	18.207	15.157	13.046	11.353	9.996	8.976	8.048
<b>70</b>	24.480	19.992	16.351	13.556	11.434	9.914	8.558	7.538	6.865	6.273
<b>75</b>	16.432	13.556	11.179	9.404	8.048	6.946	6.100	5.335	4.825	4.325
<b>80</b>	9.404	7.874	6.610	5.671	4.825	4.233	3.723	3.305	2.968	2.713
<b>85</b>	3.723	3.223	2.795	2.377	2.122	1.948	1.775	1.612	1.438	1.357
<b>90</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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
<b>0</b>	426.176	426.176	426.176	426.176	426.176	426.176	426.176
<b>5</b>	327.440	323.289	319.729	317.026	314.986	313.885	313.548
<b>10</b>	225.889	218.770	212.843	208.437	205.224	203.357	202.766
<b>15</b>	149.491	141.953	135.691	131.029	127.898	126.031	125.348
<b>20</b>	96.472	90.035	85.456	81.396	78.938	77.418	76.908
<b>25</b>	63.526	58.783	55.049	52.428	50.653	49.633	49.297
<b>30</b>	43.370	40.066	37.526	35.741	34.558	33.884	33.711
<b>35</b>	31.171	28.886	27.275	26.000	25.245	24.735	24.562
<b>40</b>	23.378	21.848	20.665	19.819	19.227	18.890	18.799
<b>45</b>	18.299	17.105	16.259	15.586	15.249	14.902	14.902
<b>50</b>	14.657	13.719	13.046	12.536	12.199	12.026	12.026
<b>55</b>	11.771	11.098	10.506	10.078	9.823	9.659	9.659
<b>60</b>	9.404	8.894	8.384	8.048	7.793	7.619	7.619
<b>65</b>	7.364	6.865	6.518	6.181	6.018	5.926	5.926
<b>70</b>	5.590	5.253	4.916	4.661	4.488	4.406	4.406
<b>75</b>	3.978	3.723	3.478	3.305	3.223	3.050	3.050
<b>80</b>	2.458	2.285	2.203	2.030	2.030	2.030	2.030
<b>85</b>	1.275	1.183	1.183	1.102	1.020	1.020	1.020
<b>90</b>	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	162.76	N.A.	14.30
0-30	354.47	N.A.	31.10
0-40	582.65	N.A.	51.10
0-60	963.72	N.A.	84.50
0-80	1123.92	N.A.	98.60
0-90	1140.17	N.A.	100.00
10-90	1099.3	N.A.	96.40
20-40	419.89	N.A.	36.80
20-50	635.59	N.A.	55.70
40-70	486.90	N.A.	42.70
60-80	160.20	N.A.	14.10
70-80	54.37	N.A.	4.80
80-90	16.25	N.A.	1.40
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	1140.17	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	40.87
10-20	121.89
20-30	191.72
30-40	228.18
40-50	215.70
50-60	165.37
60-70	105.83
70-80	54.37
80-90	16.25
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

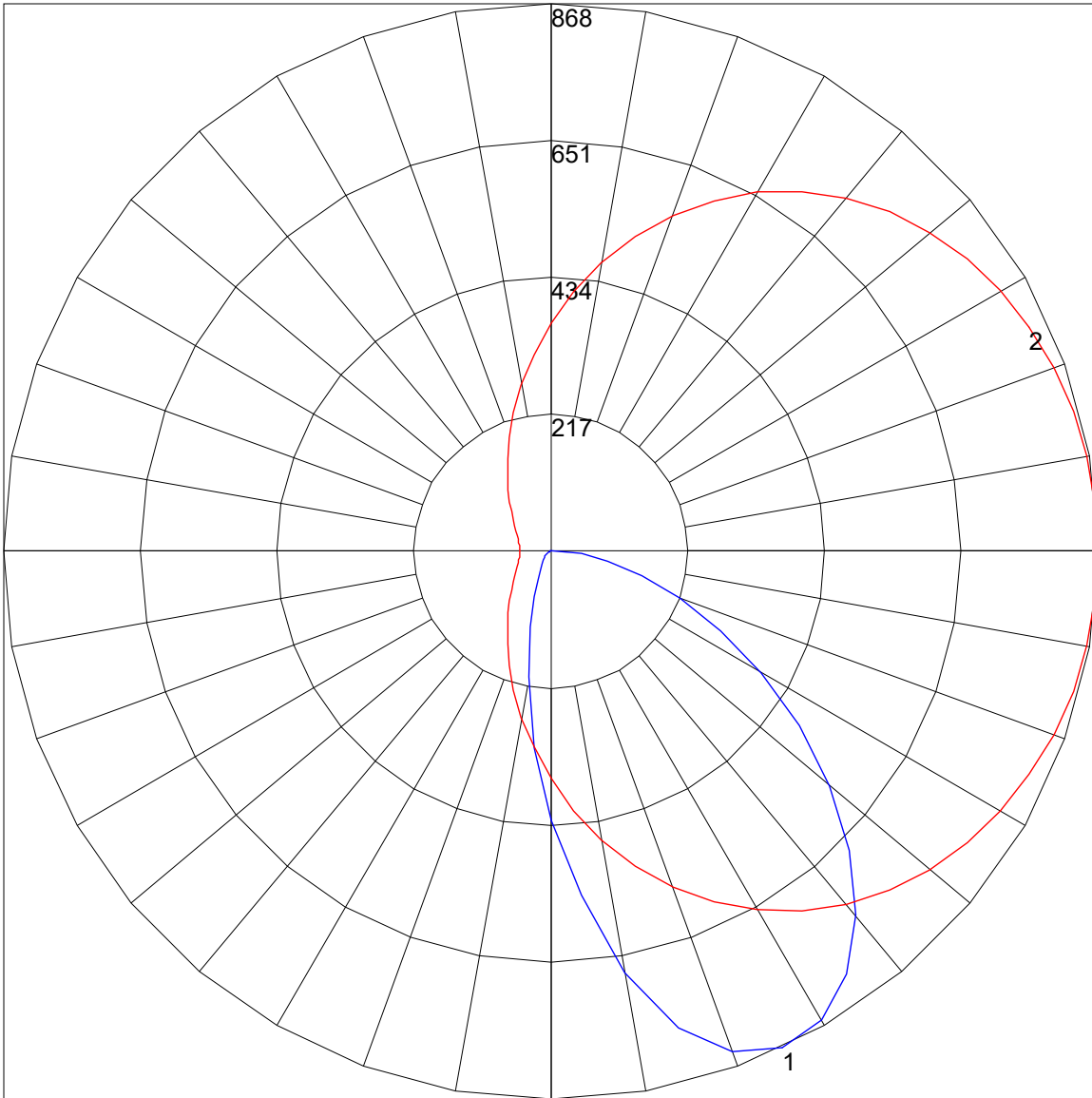
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	53	49	47
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	48	40	35	46	40	35	45	39	35	33
9	59	45	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 868.489 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)