

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	48	50	51	52
Total Lumens, 4' rail length (1219mm)	1885	1944	1984	2024
Lumens per foot (305mm)	471	486	496	506
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-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-HO-35-A1-BL  
 [LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,  
 [MORE] 85° black 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	1979
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	39.36
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	73470	61487	20499
55	64846	49389	14120
65	54517	37445	9831
75	44562	28103	7366
85	43461	23460	4889

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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>	739.541	739.541	739.541	739.541	739.541	739.541	739.541	739.541	739.541	739.541
<b>5</b>	948.277	947.251	944.755	940.932	935.197	927.993	919.763	909.337	898.452	886.257
<b>10</b>	1179.032	1177.563	1172.413	1164.182	1153.173	1138.623	1120.392	1099.666	1076.302	1049.114
<b>15</b>	1356.581	1354.369	1348.492	1338.067	1323.659	1304.543	1280.896	1253.549	1221.654	1185.935
<b>20</b>	1466.516	1464.905	1458.144	1447.559	1432.567	1412.425	1387.733	1356.723	1319.977	1277.657
<b>25</b>	1507.084	1505.314	1500.181	1490.181	1475.330	1455.790	1431.682	1400.530	1363.042	1319.393
<b>30</b>	1489.437	1487.384	1482.092	1473.136	1459.312	1440.656	1416.991	1386.706	1349.678	1306.171
<b>35</b>	1419.186	1417.434	1412.425	1404.052	1390.229	1372.299	1349.076	1319.252	1282.064	1239.301
<b>40</b>	1307.198	1305.871	1301.162	1292.348	1278.984	1261.054	1237.230	1207.547	1169.032	1125.100
<b>45</b>	1165.226	1163.456	1158.164	1149.633	1135.526	1116.127	1090.108	1057.929	1019.715	975.181
<b>50</b>	1002.953	1001.041	995.607	986.350	971.942	950.773	923.002	889.779	850.538	805.562
<b>55</b>	834.236	832.608	827.174	817.616	802.624	781.473	754.268	719.593	679.025	635.377
<b>60</b>	668.157	666.529	661.396	651.838	637.873	617.588	592.012	560.860	523.371	483.989
<b>65</b>	516.769	515.300	510.733	502.503	489.281	471.209	448.429	420.056	387.860	354.938
<b>70</b>	377.718	376.408	372.585	365.682	354.796	339.946	321.574	298.953	273.819	248.384
<b>75</b>	258.685	257.641	254.703	249.127	240.738	229.728	215.905	199.444	181.213	163.141
<b>80</b>	160.787	159.902	157.565	153.441	147.706	139.777	130.520	119.493	107.881	96.270
<b>85</b>	84.960	84.358	82.606	79.951	76.128	71.136	65.401	59.083	52.321	45.861
<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>	739.541	739.541	739.541	739.541	739.541	739.541	739.541	739.541	739.541	739.541
<b>5</b>	872.150	857.742	842.024	825.404	808.660	791.615	773.083	755.312	737.807	718.708
<b>10</b>	1019.131	987.819	953.570	917.125	880.964	842.024	802.624	764.410	726.196	686.087
<b>15</b>	1142.429	1097.612	1047.203	992.970	937.994	880.079	820.271	762.215	704.885	645.802
<b>20</b>	1228.274	1174.926	1113.047	1045.291	975.040	901.691	823.793	745.754	671.538	589.959
<b>25</b>	1267.072	1206.963	1140.818	1064.549	983.695	898.009	806.164	716.213	626.120	541.301
<b>30</b>	1253.850	1192.555	1123.773	1046.318	960.048	861.707	763.985	665.502	569.374	475.174
<b>35</b>	1188.874	1126.410	1058.371	978.120	891.991	794.695	694.743	586.879	496.343	405.507
<b>40</b>	1074.532	1015.006	947.251	870.822	788.376	695.787	587.463	507.353	410.799	329.804
<b>45</b>	923.002	865.530	801.456	730.762	655.803	570.259	488.980	405.507	325.114	257.057
<b>50</b>	752.958	699.451	640.952	572.754	516.468	447.244	376.550	309.538	247.942	193.125
<b>55</b>	584.365	541.160	490.166	437.402	385.524	332.601	277.040	227.073	181.655	147.264
<b>60</b>	441.810	400.940	358.921	317.166	277.341	237.959	198.559	162.999	130.661	102.448
<b>65</b>	320.547	287.926	255.446	225.020	195.036	166.822	139.635	115.227	93.190	73.774
<b>70</b>	222.524	197.674	174.894	152.999	132.715	113.758	95.385	79.508	64.959	52.321
<b>75</b>	145.211	128.891	113.032	98.624	85.544	73.490	61.879	51.879	42.763	34.834
<b>80</b>	84.801	74.818	64.959	56.445	48.799	41.737	35.134	29.400	24.249	19.842
<b>85</b>	39.825	34.249	29.400	24.833	20.868	17.629	14.408	11.753	9.558	7.788
<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>	739.541	739.541	739.541	739.541	739.541	739.541	739.541	739.541	739.541	739.541
<b>5</b>	701.504	684.176	667.998	651.838	636.846	623.022	610.101	597.446	587.020	577.020
<b>10</b>	649.484	613.323	580.259	549.107	518.822	491.918	466.643	444.004	424.464	406.976
<b>15</b>	592.897	540.877	493.989	451.067	411.242	376.691	345.238	318.051	295.714	276.014
<b>20</b>	531.177	467.386	411.525	360.390	317.609	279.695	248.543	221.639	200.028	181.956
<b>25</b>	464.590	395.807	332.158	281.890	239.569	204.736	176.664	152.716	135.653	121.263
<b>30</b>	394.621	324.813	264.403	216.790	177.690	148.892	124.785	106.713	93.474	83.190
<b>35</b>	324.529	259.110	204.594	163.282	130.360	107.138	89.650	76.429	66.587	59.525

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	259.270	200.329	154.326	121.687	95.969	78.340	65.543	56.003	49.241	44.392
<b>45</b>	198.718	152.415	115.811	90.836	71.579	58.941	49.684	42.922	37.913	34.391
<b>50</b>	149.760	112.289	87.013	68.641	55.118	45.560	38.958	33.807	30.125	27.488
<b>55</b>	109.209	84.075	65.986	52.905	42.922	36.161	30.869	27.187	24.249	22.196
<b>60</b>	80.535	63.649	50.268	41.011	34.108	28.957	24.992	21.895	19.541	17.788
<b>65</b>	58.941	47.471	38.214	31.594	26.302	22.638	19.700	17.346	15.576	13.965
<b>70</b>	42.480	34.692	28.373	23.523	19.842	17.204	14.850	13.080	11.912	10.885
<b>75</b>	28.515	23.523	19.399	16.319	13.965	12.054	10.585	9.257	8.372	7.505
<b>80</b>	16.319	13.664	11.470	9.841	8.372	7.345	6.460	5.735	5.151	4.708
<b>85</b>	6.460	5.593	4.850	4.124	3.682	3.381	3.080	2.797	2.496	2.354
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. 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>	739.541	739.541	739.541	739.541	739.541	739.541	739.541
<b>5</b>	568.205	561.001	554.824	550.134	546.594	544.682	544.098
<b>10</b>	391.984	379.630	369.346	361.699	356.124	352.885	351.858
<b>15</b>	259.411	246.331	235.463	227.374	221.940	218.701	217.515
<b>20</b>	167.407	156.238	148.291	141.246	136.980	134.343	133.458
<b>25</b>	110.236	102.005	95.527	90.978	87.898	86.128	85.544
<b>30</b>	75.260	69.526	65.118	62.021	59.968	58.799	58.498
<b>35</b>	54.091	50.126	47.330	45.117	43.807	42.922	42.622
<b>40</b>	40.568	37.913	35.860	34.391	33.364	32.780	32.621
<b>45</b>	31.754	29.683	28.214	27.046	26.461	25.860	25.860
<b>50</b>	25.435	23.806	22.638	21.753	21.169	20.868	20.868
<b>55</b>	20.426	19.258	18.231	17.488	17.045	16.762	16.762
<b>60</b>	16.319	15.434	14.549	13.965	13.523	13.222	13.222
<b>65</b>	12.779	11.912	11.310	10.726	10.443	10.284	10.284
<b>70</b>	9.700	9.115	8.531	8.089	7.788	7.646	7.646
<b>75</b>	6.903	6.460	6.036	5.735	5.593	5.292	5.292
<b>80</b>	4.266	3.965	3.823	3.522	3.522	3.522	3.522
<b>85</b>	2.212	2.053	2.053	1.912	1.770	1.770	1.770
<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	282.44	N.A.	14.30
0-30	615.12	N.A.	31.10
0-40	1011.07	N.A.	51.10
0-60	1672.33	N.A.	84.50
0-80	1950.33	N.A.	98.60
0-90	1978.53	N.A.	100.00
10-90	1907.6	N.A.	96.40
20-40	728.63	N.A.	36.80
20-50	1102.93	N.A.	55.70
40-70	844.91	N.A.	42.70
60-80	278.00	N.A.	14.10
70-80	94.36	N.A.	4.80
80-90	28.20	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	1978.53	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	70.92
10-20	211.51
20-30	332.68
30-40	395.95
40-50	374.29
50-60	286.97
60-70	183.64
70-80	94.36
80-90	28.20
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

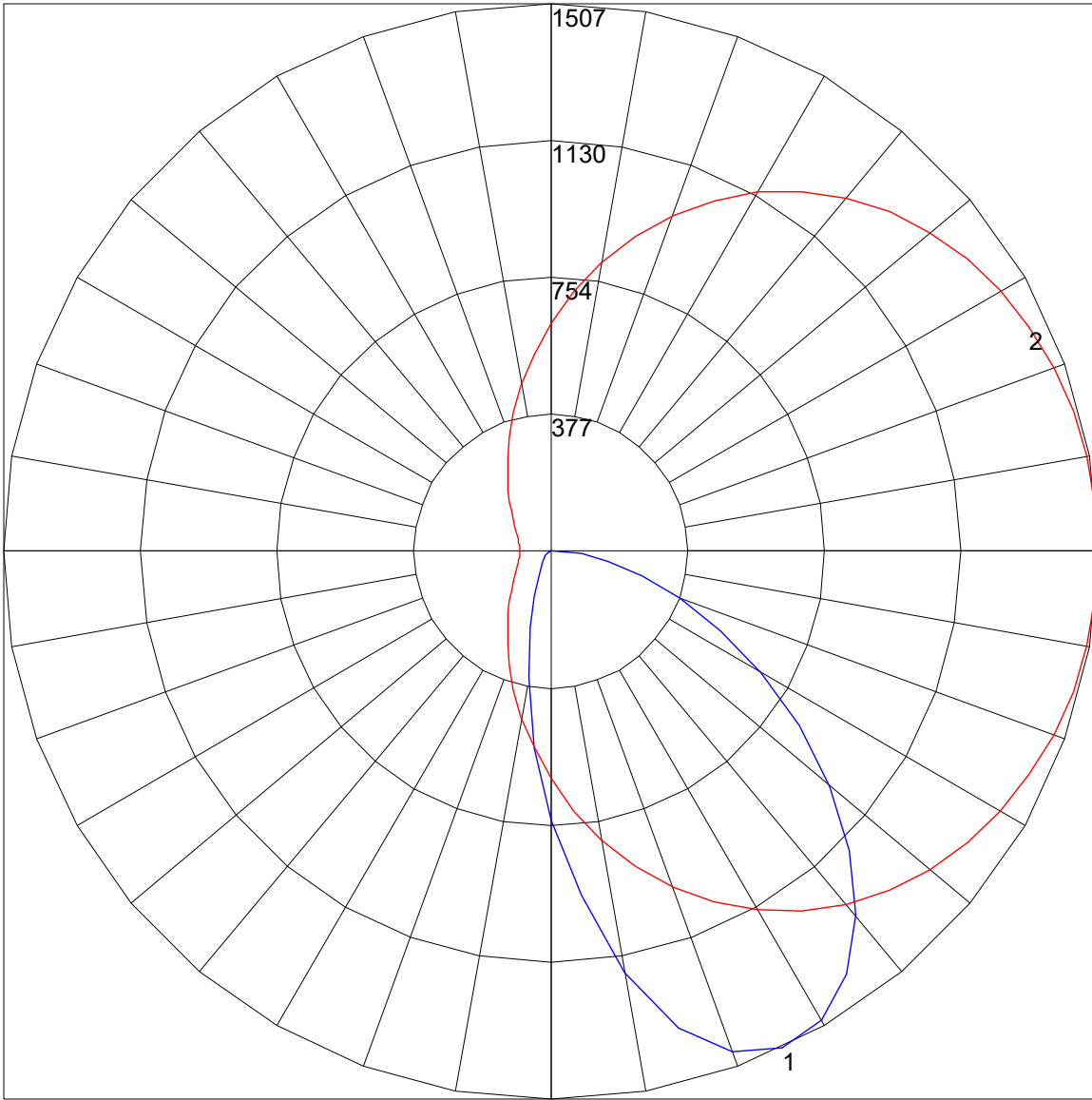
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	82	78	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	65	72	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	54	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	47	40	35	46	40	35	45	39	35	33
9	59	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 1507.084 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.)