

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	42	43	44	45
Total Lumens, 4' rail length (1219mm)	1625	1676	1710	1744
Lumens per foot (305mm)	406	419	428	436
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	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.

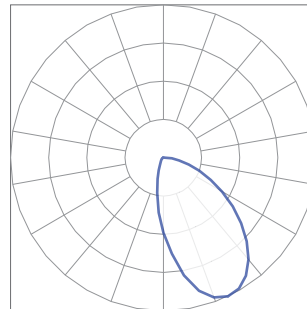
If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).

ZipTwo™ | 707

707-Z2-4-48-X-X-X-0-Z-HO-359-A1-0-BL

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	High Output
Color Temperature	3500K, 90+ CRI
Optics	85° Black Asymmetric

Performance Summary

	2700K	3000K	3500K	4000K
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IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_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-HO-359-A1-BL
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 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	1710
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
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	63508	53150	17720
55	56053	42692	12206
65	47125	32367	8498
75	38519	24292	6368
85	37568	20279	4226

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	639.265	639.265	639.265	639.265	639.265	639.265	639.265	639.265	639.265	639.265
5	819.697	818.810	816.653	813.348	808.391	802.164	795.049	786.037	776.628	766.086
10	1019.164	1017.894	1013.441	1006.327	996.810	984.234	968.475	950.558	930.362	906.862
15	1172.638	1170.725	1165.646	1156.634	1144.180	1127.656	1107.215	1083.577	1056.006	1025.131
20	1267.666	1266.274	1260.429	1251.280	1238.321	1220.909	1199.566	1172.760	1140.997	1104.415
25	1302.734	1301.204	1296.767	1288.122	1275.286	1258.394	1237.556	1210.628	1178.222	1140.493
30	1287.480	1285.705	1281.130	1273.388	1261.439	1245.313	1224.857	1198.678	1166.671	1129.063
35	1226.754	1225.239	1220.909	1213.672	1201.723	1186.224	1166.151	1140.370	1108.225	1071.260
40	1129.951	1128.803	1124.734	1117.114	1105.563	1090.064	1069.470	1043.812	1010.519	972.544
45	1007.230	1005.700	1001.125	993.750	981.556	964.787	942.296	914.481	881.448	842.953
50	866.959	865.307	860.610	852.608	840.154	821.855	797.849	769.131	735.211	696.334
55	721.120	719.712	715.015	706.753	693.794	675.510	651.994	622.021	586.954	549.224
60	577.560	576.152	571.715	563.453	551.381	533.848	511.739	484.811	452.406	418.363
65	446.699	445.429	441.481	434.367	422.938	407.317	387.625	363.100	335.269	306.811
70	326.502	325.370	322.065	316.098	306.688	293.852	277.970	258.417	236.691	214.705
75	223.609	222.707	220.167	215.347	208.095	198.579	186.629	172.400	156.641	141.020
80	138.985	138.220	136.201	132.636	127.678	120.824	112.822	103.290	93.253	83.217
85	73.440	72.920	71.405	69.110	65.805	61.491	56.533	51.071	45.227	39.642
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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>
0	639.265	639.265	639.265	639.265	639.265	639.265	639.265	639.265	639.265	639.265
5	753.892	741.438	727.852	713.485	699.011	684.277	668.258	652.897	637.765	621.256
10	880.943	853.878	824.272	792.769	761.512	727.852	693.794	660.761	627.728	593.059
15	987.523	948.784	905.209	858.330	810.808	760.747	709.048	658.864	609.307	558.236
20	1061.728	1015.614	962.125	903.557	842.831	779.428	712.093	644.635	580.482	509.964
25	1095.266	1043.307	986.131	920.203	850.313	776.245	696.854	619.099	541.222	467.905
30	1083.837	1030.853	971.397	904.444	829.872	744.865	660.394	575.265	492.170	410.744
35	1027.670	973.677	914.863	845.493	771.043	686.939	600.540	507.302	429.043	350.523
40	928.832	877.378	818.810	752.745	681.477	601.443	507.807	438.559	355.098	285.085
45	797.849	748.170	692.784	631.676	566.880	492.935	422.678	350.523	281.030	222.202
50	650.862	604.610	554.044	495.093	446.439	386.600	325.492	267.566	214.322	166.938
55	505.129	467.782	423.703	378.094	333.249	287.502	239.476	196.284	157.024	127.296
60	381.903	346.576	310.253	274.161	239.736	205.693	171.635	140.898	112.945	88.556
65	277.083	248.885	220.810	194.509	168.591	144.202	120.702	99.603	80.554	63.770
70	192.352	170.870	151.179	132.253	114.719	98.333	82.452	68.728	56.151	45.227
75	125.521	111.415	97.706	85.252	73.945	63.526	53.489	44.844	36.965	30.110
80	73.302	64.673	56.151	48.792	42.182	36.077	30.370	25.413	20.961	17.151
85	34.425	29.605	25.413	21.466	18.039	15.239	12.454	10.159	8.262	6.732
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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>
0	639.265	639.265	639.265	639.265	639.265	639.265	639.265	639.265	639.265	639.265
5	606.385	591.406	577.422	563.453	550.494	538.545	527.376	516.436	507.424	498.780
10	561.418	530.160	501.580	474.652	448.474	425.218	403.369	383.800	366.909	351.793
15	512.504	467.537	427.008	389.905	355.480	325.615	298.426	274.926	255.617	238.588
20	459.153	404.012	355.725	311.523	274.543	241.771	214.843	191.587	172.905	157.284
25	401.594	342.139	287.120	243.668	207.085	176.975	152.709	132.008	117.259	104.820
30	341.113	280.770	228.551	187.394	153.597	128.704	107.865	92.244	80.799	71.910
35	280.525	223.977	176.853	141.142	112.684	92.611	77.494	66.065	57.559	51.454

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PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A1-BL.IES

CANDELA TABULATION - (Cont.)

40	224.114	173.165	133.401	105.187	82.957	67.718	56.656	48.409	42.565	38.372
45	171.773	131.748	100.108	78.520	61.873	50.949	42.947	37.102	32.773	29.728
50	129.453	97.063	75.215	59.333	47.644	39.382	33.675	29.223	26.041	23.761
55	94.401	72.675	57.038	45.732	37.102	31.258	26.683	23.501	20.961	19.186
60	69.615	55.019	43.452	35.450	29.483	25.031	21.604	18.926	16.891	15.376
65	50.949	41.035	33.033	27.310	22.736	19.569	17.029	14.994	13.464	12.072
70	36.720	29.988	24.526	20.334	17.151	14.872	12.837	11.307	10.297	9.409
75	24.648	20.334	16.769	14.107	12.072	10.419	9.149	8.002	7.237	6.487
80	14.107	11.812	9.914	8.507	7.237	6.349	5.584	4.957	4.452	4.070
85	5.584	4.835	4.192	3.565	3.182	2.922	2.662	2.417	2.157	2.035
90	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>
0	639.265	639.265	639.265	639.265	639.265	639.265	639.265
5	491.161	484.933	479.594	475.539	472.479	470.827	470.322
10	338.834	328.154	319.265	312.655	307.836	305.036	304.149
15	224.237	212.930	203.536	196.544	191.847	189.047	188.022
20	144.707	135.053	128.183	122.094	118.407	116.127	115.362
25	95.288	88.174	82.574	78.642	75.980	74.450	73.945
30	65.056	60.098	56.289	53.611	51.836	50.827	50.566
35	46.757	43.330	40.912	39.000	37.867	37.102	36.842
40	35.068	32.773	30.998	29.728	28.840	28.336	28.198
45	27.448	25.658	24.388	23.378	22.873	22.353	22.353
50	21.986	20.578	19.569	18.804	18.299	18.039	18.039
55	17.656	16.646	15.759	15.116	14.734	14.489	14.489
60	14.107	13.342	12.577	12.072	11.689	11.429	11.429
65	11.047	10.297	9.777	9.272	9.027	8.889	8.889
70	8.384	7.879	7.375	6.992	6.732	6.610	6.610
75	5.967	5.584	5.217	4.957	4.835	4.575	4.575
80	3.687	3.427	3.305	3.045	3.045	3.045	3.045
85	1.912	1.775	1.775	1.652	1.530	1.530	1.530
90	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	244.14	N.A.	14.30
0-30	531.71	N.A.	31.10
0-40	873.97	N.A.	51.10
0-60	1445.58	N.A.	84.50
0-80	1685.88	N.A.	98.60
0-90	1710.25	N.A.	100.00
10-90	1648.95	N.A.	96.40
20-40	629.84	N.A.	36.80
20-50	953.38	N.A.	55.70
40-70	730.34	N.A.	42.70
60-80	240.30	N.A.	14.10
70-80	81.56	N.A.	4.80
80-90	24.37	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	1710.25	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.31
10-20	182.83
20-30	287.57
30-40	342.26
40-50	323.54
50-60	248.06
60-70	158.74
70-80	81.56
80-90	24.37
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

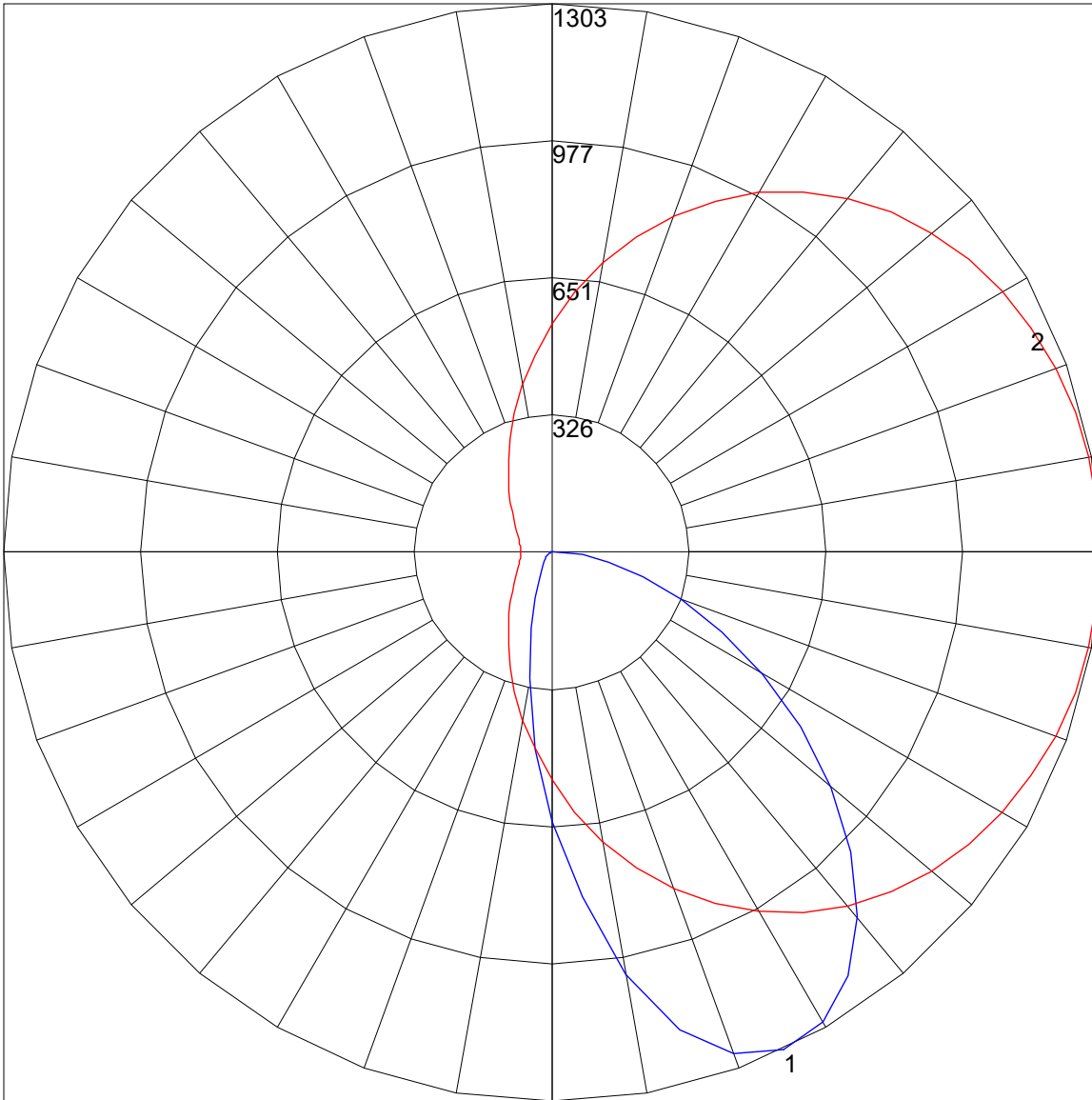
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1302.734 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.)