

**IES Report**

**BoxRail® | 107 | 85° Asymmetric | 80 CRI | SO**

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	75	77	79	80
Total Lumens, 4' rail length (1219mm)	1951	2012	2053	2094
Lumens per foot (305mm)	488	503	513	524
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	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](http://vode.com).



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_SO\_35\_A1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L071704225 (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-35-A1-AL  
 [LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,  
 [MORE] 85° white 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	2048
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	26.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.94
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.36
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	64895	56764	25602
55	59194	49202	19529
65	50320	40221	15329
75	40914	31799	12103
85	35590	25365	7871

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>	789.078	789.078	789.078	789.078	789.078	789.078	789.078	789.078	789.078	789.078
<b>5</b>	940.448	939.858	937.994	935.351	931.433	926.335	920.553	913.403	905.367	896.647
<b>10</b>	1088.597	1087.417	1084.278	1079.582	1072.325	1063.215	1052.536	1039.108	1023.626	1006.882
<b>15</b>	1190.301	1189.027	1185.593	1179.917	1171.292	1160.318	1146.606	1129.744	1110.250	1088.302
<b>20</b>	1247.720	1246.540	1243.012	1237.041	1228.415	1216.757	1202.750	1184.814	1163.256	1138.759
<b>25</b>	1268.299	1267.119	1263.686	1258.104	1249.290	1237.631	1223.129	1204.898	1182.655	1156.884
<b>30</b>	1254.965	1253.691	1250.564	1244.971	1236.546	1224.698	1210.196	1191.080	1167.858	1140.918
<b>35</b>	1209.901	1208.721	1206.078	1200.780	1192.650	1180.897	1165.604	1145.332	1120.245	1091.535
<b>40</b>	1133.661	1132.883	1130.428	1125.531	1117.696	1105.837	1089.577	1068.112	1041.079	1010.009
<b>45</b>	1029.220	1028.925	1026.860	1022.553	1015.201	1002.764	986.102	963.269	933.982	900.269
<b>50</b>	902.228	901.839	900.269	895.962	888.705	876.752	859.217	835.310	804.642	769.950
<b>55</b>	761.525	761.336	759.660	756.038	749.088	737.524	720.178	696.070	667.172	632.976
<b>60</b>	616.515	616.314	614.945	611.901	605.729	594.567	578.589	557.231	531.165	501.476
<b>65</b>	476.980	476.885	475.906	473.156	467.964	458.560	445.238	426.723	406.333	381.258
<b>70</b>	350.979	350.779	349.894	347.840	343.628	336.182	325.692	311.485	294.445	276.120
<b>75</b>	237.510	237.416	236.531	234.867	231.728	226.241	218.701	208.801	197.048	184.599
<b>80</b>	142.072	141.978	141.293	140.019	137.671	133.942	129.139	122.779	115.428	107.876
<b>85</b>	69.573	69.372	68.782	67.708	66.045	63.885	60.947	57.419	53.501	49.584
<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  
 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>	789.078	789.078	789.078	789.078	789.078	789.078	789.078	789.078	789.078	789.078
<b>5</b>	886.746	875.879	864.704	852.845	840.703	827.074	813.846	800.618	787.001	772.994
<b>10</b>	987.577	966.019	943.481	919.078	893.319	864.503	836.290	807.675	777.502	747.412
<b>15</b>	1062.437	1033.527	1002.268	968.178	931.138	888.906	847.169	804.052	758.587	713.511
<b>20</b>	1109.365	1075.558	1038.424	997.076	951.611	898.511	844.915	788.960	729.783	670.995
<b>25</b>	1125.637	1089.282	1048.524	1002.375	950.832	889.496	826.779	760.357	689.309	619.547
<b>30</b>	1108.291	1069.977	1027.450	978.456	923.008	856.574	787.685	714.101	635.123	558.801
<b>35</b>	1056.950	1016.877	972.780	922.512	865.294	799.344	726.255	649.437	567.816	488.933
<b>40</b>	972.780	930.843	885.283	834.815	776.523	713.806	642.569	568.005	488.933	413.979
<b>45</b>	862.061	817.575	771.614	722.337	666.971	606.709	543.119	475.705	406.038	338.235
<b>50</b>	731.352	688.329	643.360	595.735	547.331	494.031	432.305	383.406	324.229	270.432
<b>55</b>	596.230	556.842	516.179	474.537	430.535	389.577	343.427	297.679	251.234	210.866
<b>60</b>	467.575	430.240	401.932	367.830	334.129	298.658	262.692	227.421	193.520	162.557
<b>65</b>	354.991	329.031	302.375	276.014	250.349	224.283	196.364	170.392	145.305	122.189
<b>70</b>	256.520	237.510	218.111	199.101	180.481	161.766	142.273	123.558	105.138	90.636
<b>75</b>	171.371	158.533	146.001	132.774	120.419	107.982	94.848	82.399	70.257	59.578
<b>80</b>	99.840	92.099	84.169	76.724	69.372	61.926	54.280	46.834	39.778	33.901
<b>85</b>	45.265	41.253	37.135	33.311	29.488	25.677	21.948	18.325	15.387	13.133
<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  
 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>	789.078	789.078	789.078	789.078	789.078	789.078	789.078	789.078	789.078	789.078
<b>5</b>	759.566	745.748	732.426	720.178	707.245	695.976	685.297	675.302	666.287	657.767
<b>10</b>	717.428	689.014	660.599	634.250	607.688	585.256	563.792	543.803	526.563	510.787
<b>15</b>	668.446	626.403	585.445	547.921	511.377	480.319	452.388	427.007	405.554	387.040
<b>20</b>	615.040	560.170	509.418	464.637	422.405	388.208	358.224	331.969	310.411	291.307
<b>25</b>	551.744	490.892	434.747	387.524	344.407	310.316	281.996	257.995	239.080	223.398
<b>30</b>	485.405	421.520	364.986	318.647	278.268	247.706	223.398	203.609	188.812	176.858
<b>35</b>	415.254	353.422	300.216	258.573	224.578	198.712	179.702	164.610	153.636	145.010

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	345.587	289.832	243.587	208.801	181.071	161.577	147.264	136.101	128.266	122.189
<b>45</b>	281.111	234.277	196.659	169.318	147.760	133.163	122.578	114.448	108.761	104.159
<b>50</b>	224.578	186.664	157.660	136.880	120.808	110.035	102.094	96.217	91.910	88.771
<b>55</b>	176.375	147.665	126.107	110.424	98.577	90.636	84.653	80.051	76.818	74.269
<b>60</b>	136.196	115.227	99.745	88.583	79.567	73.490	68.888	65.360	62.906	60.853
<b>65</b>	103.569	91.710	77.609	69.077	62.611	58.009	54.481	51.731	49.772	48.203
<b>70</b>	75.933	65.655	57.324	51.342	46.940	43.507	40.863	38.905	37.430	36.250
<b>75</b>	51.247	44.580	39.388	35.270	32.238	29.984	28.320	26.845	25.866	25.087
<b>80</b>	29.394	25.771	22.927	20.674	19.010	17.735	16.756	15.977	15.387	14.892
<b>85</b>	11.564	10.384	9.405	8.626	8.036	7.540	7.257	6.962	6.856	6.761
<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>	789.078	789.078	789.078	789.078	789.078	789.078	789.078
<b>5</b>	650.510	644.634	639.631	635.619	632.775	630.911	630.226
<b>10</b>	497.358	485.995	476.980	469.640	464.637	461.498	460.330
<b>15</b>	371.157	358.331	348.135	340.005	334.412	331.084	330.011
<b>20</b>	276.710	264.945	255.635	248.296	243.587	240.449	239.670
<b>25</b>	210.866	201.450	194.499	189.012	185.390	183.136	182.440
<b>30</b>	167.654	160.893	155.795	151.878	149.329	147.960	147.370
<b>35</b>	138.650	133.942	130.414	127.865	126.012	125.033	124.832
<b>40</b>	117.681	114.448	111.899	110.035	108.961	108.171	107.781
<b>45</b>	100.831	98.471	97.102	95.828	94.943	94.353	94.258
<b>50</b>	86.329	84.464	83.096	82.010	81.526	81.031	80.936
<b>55</b>	72.405	71.036	69.962	69.172	68.688	68.393	68.393
<b>60</b>	59.283	58.304	57.419	56.829	56.345	56.144	56.050
<b>65</b>	46.940	46.150	45.465	44.970	44.687	44.486	44.285
<b>70</b>	35.376	34.692	34.102	33.713	33.418	33.311	33.311
<b>75</b>	24.402	23.907	23.612	23.317	23.128	22.927	22.927
<b>80</b>	14.597	14.302	14.113	14.007	13.912	13.818	13.723
<b>85</b>	6.761	6.667	6.667	6.667	6.561	6.561	6.667
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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

Zone	Lumens	%Lamp	%Fixt
0-20	288.85	N.A.	14.10
0-30	614.49	N.A.	30.00
0-40	1002.89	N.A.	49.00
0-60	1694.41	N.A.	82.70
0-80	2016.05	N.A.	98.50
0-90	2047.73	N.A.	100.00
10-90	1973.04	N.A.	96.40
20-40	714.04	N.A.	34.90
20-50	1095.46	N.A.	53.50
40-70	901.83	N.A.	44.00
60-80	321.64	N.A.	15.70
70-80	111.33	N.A.	5.40
80-90	31.68	N.A.	1.50
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	2047.73	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	74.69
10-20	214.16
20-30	325.64
30-40	388.40
40-50	381.42
50-60	310.10
60-70	210.31
70-80	111.33
80-90	31.68
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

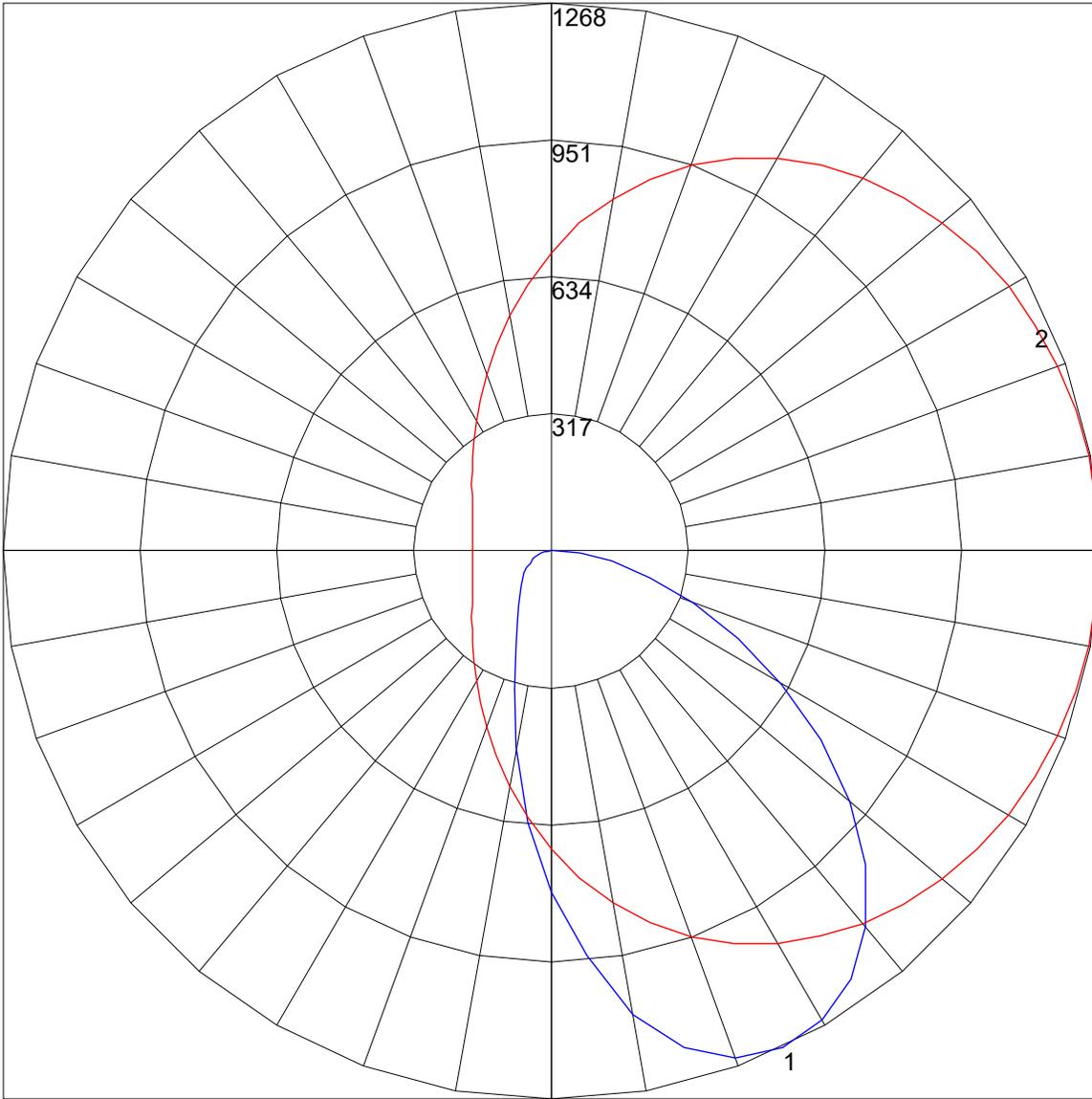
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	116	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	97	107	103	99	96	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	80	97	90	84	79	79	87	82	77	83	79	76	80	77	74	72
3	91	81	74	67	67	89	80	73	67	67	77	71	65	74	69	64	72	67	63	61
4	84	72	64	57	57	82	71	63	57	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	50	75	64	56	50	50	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	44	70	58	49	43	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	39	65	52	44	39	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	35	60	48	40	35	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	31	56	44	36	31	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	28	53	41	33	28	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1268.299 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.)