

**IES Report**

**BoxRail® | 107 | 40° Symmetric | 80 CRI | SO**

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	53	55	56	56
Total Lumens, 4' rail length (1219mm)	1262	1302	1328	1328
Lumens per foot (305mm)	315	325	332	332
Input Power (W), 4' rail length (1219mm)	23.9	23.9	23.9	23.9
Watts per foot (305mm)	6.0	6.0	6.0	6.0
CRI	82	82	82	82

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\_107\_BX\_SO\_35\_S1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L121911509R01 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB  
[ISSUE DATE] 12/23/2019  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-BX-48-Z-SO-35-S1-AL  
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 40° white symmetric lens,  
[MORE] standard output, clear anodized finish  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1329
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	23.92
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.01 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	49601	82545	158719
55	37698	56807	111852
65	32215	43400	80480
75	28404	34504	57862
85	2198	12040	34066

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_SO\_35\_S1.IES**

**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>0.0</b>	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770
<b>1.0</b>	1042.666	1048.257	1050.299	1059.289	1065.414	1068.963	1065.611	1068.232	1070.320	1072.559
<b>3.0</b>	1029.732	1031.774	1032.156	1050.102	1060.553	1064.683	1061.957	1064.149	1066.922	1069.300
<b>5.0</b>	1003.864	1000.952	1016.021	1027.980	1043.536	1047.526	1046.796	1050.682	1054.916	1057.688
<b>7.0</b>	968.182	960.735	976.836	994.874	1010.963	1017.378	1022.238	1027.203	1032.794	1037.794
<b>9.0</b>	925.390	915.089	933.568	959.714	978.820	985.733	992.055	999.004	1007.170	1015.197
<b>11.0</b>	873.468	858.980	880.370	908.326	926.852	939.936	948.636	958.114	968.762	979.458
<b>13.0</b>	811.722	792.814	805.168	837.450	868.272	886.982	897.782	911.296	924.033	938.718
<b>15.0</b>	769.034	749.789	786.979	820.967	831.070	844.109	858.307	874.292	891.553	909.301
<b>17.0</b>	694.074	694.457	711.625	753.582	767.236	782.455	798.358	816.779	837.787	859.328
<b>19.5</b>	610.160	602.133	627.270	663.590	684.249	700.779	719.884	741.762	765.832	791.549
<b>22.5</b>	514.286	513.694	532.510	566.788	583.758	602.330	623.964	647.883	675.886	706.173
<b>25.5</b>	424.340	428.179	440.672	469.742	490.262	509.170	531.396	557.600	587.157	619.834
<b>29.0</b>	341.005	331.621	350.540	377.081	392.788	410.675	432.262	458.130	488.314	521.617
<b>33.0</b>	256.894	251.604	263.459	287.819	301.913	317.770	336.771	360.157	388.461	419.618
<b>37.5</b>	191.064	190.588	198.940	213.869	224.367	236.872	252.381	271.823	295.742	322.770
<b>42.5</b>	141.474	138.075	145.905	156.310	164.372	173.513	184.892	199.624	217.570	238.856
<b>47.5</b>	109.005	106.720	112.021	119.167	124.456	130.686	138.759	149.257	162.435	177.990
<b>55.0</b>	77.210	75.945	78.567	82.024	84.645	88.392	92.962	98.983	106.674	116.348
<b>65.0</b>	48.616	48.720	49.300	50.518	51.875	53.337	55.378	57.954	61.306	65.494
<b>75.0</b>	26.251	26.007	26.402	26.784	27.179	27.712	28.397	29.220	30.438	31.888
<b>85.0</b>	0.684	0.731	0.731	0.870	1.021	1.264	1.659	2.088	2.680	3.747
<b>90.0</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>
<b>0.0</b>	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770
<b>1.0</b>	1073.870	1075.042	1078.928	1079.751	1081.897	1082.280	1082.814	1082.141	1082.431
<b>3.0</b>	1070.912	1072.559	1075.332	1075.912	1082.582	1081.074	1081.503	1081.700	1081.944
<b>5.0</b>	1060.646	1064.103	1066.968	1069.590	1073.441	1074.995	1076.352	1079.415	1076.990
<b>7.0</b>	1043.095	1048.199	1053.257	1057.154	1063.998	1066.875	1069.253	1070.425	1072.026
<b>9.0</b>	1023.364	1030.648	1036.970	1043.687	1049.614	1054.231	1058.848	1062.015	1066.678
<b>11.0</b>	990.443	1001.092	1011.253	1021.218	1028.178	1035.172	1042.225	1047.573	1052.190
<b>13.0</b>	953.102	967.162	980.571	994.526	1004.595	1013.492	1023.944	1028.363	1034.302
<b>15.0</b>	928.406	945.180	962.290	976.882	990.153	1000.848	1008.040	1012.030	1014.072
<b>17.0</b>	881.588	902.492	922.861	942.802	958.995	970.120	980.676	987.578	989.956
<b>19.5</b>	818.438	843.622	868.898	894.325	914.846	931.515	942.697	950.678	954.077
<b>22.5</b>	737.876	768.210	799.333	829.806	854.560	875.951	891.216	900.114	903.814
<b>25.5</b>	654.890	688.773	724.165	758.489	788.533	813.763	830.247	842.160	846.336
<b>29.0</b>	558.378	595.231	634.079	670.932	704.085	733.352	751.877	766.273	771.180
<b>33.0</b>	456.089	492.107	531.292	570.627	606.019	631.202	656.340	672.092	678.032
<b>37.5</b>	354.763	387.626	423.516	460.798	495.366	525.654	549.237	564.259	568.342
<b>42.5</b>	263.262	291.369	321.366	354.032	385.050	412.380	433.620	446.310	451.658
<b>47.5</b>	196.121	218.347	242.069	267.937	293.120	316.460	334.057	345.135	349.856
<b>55.0</b>	126.939	140.116	155.382	171.773	188.303	204.102	217.419	225.690	229.088
<b>65.0</b>	70.690	76.815	83.961	92.081	100.444	108.518	115.327	119.944	121.452
<b>75.0</b>	33.791	36.122	38.802	41.957	45.112	48.372	51.098	52.803	53.476
<b>85.0</b>	5.301	7.053	8.503	9.141	9.582	10.011	10.405	10.556	10.602
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_SO\_35\_S1.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	334.16	N.A.	25.20
0-30	615.68	N.A.	46.30
0-40	840.59	N.A.	63.30
0-60	1149.4	N.A.	86.50
0-80	1305.16	N.A.	98.20
0-90	1328.51	N.A.	100.00
10-90	1248.08	N.A.	93.90
20-40	506.43	N.A.	38.10
20-50	707.14	N.A.	53.20
40-70	407.73	N.A.	30.70
60-80	155.76	N.A.	11.70
70-80	56.85	N.A.	4.30
80-90	23.34	N.A.	1.80
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	1328.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	80.43
10-20	253.73
20-30	281.53
30-40	224.90
40-50	200.71
50-60	108.10
60-70	98.91
70-80	56.85
80-90	23.34
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

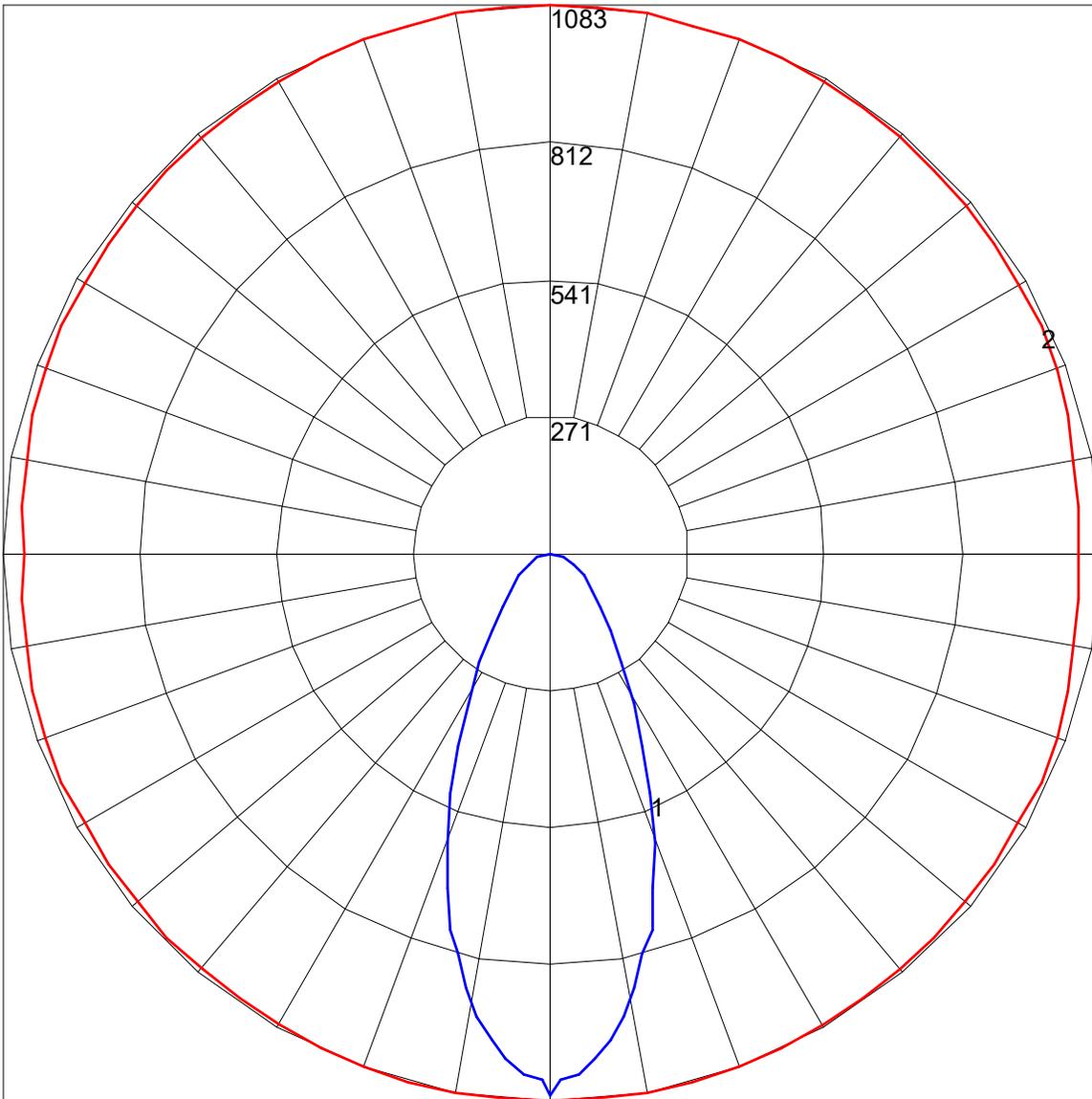
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_SO\_35\_S1.IES**

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49
7	73	61	53	48	71	60	53	48	59	52	47	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	65	53	45	41	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36

POLAR GRAPH



Maximum Candela = 1082.814 Located At Horizontal Angle = 80, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)