

**IES Report**

**BoxRail® | 107 | 120° FlyWing™ | 80 CRI | SO**

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	128	132	135	135
Total Lumens, 4' rail length (1219mm)	3043	3139	3203	3203
Lumens per foot (305mm)	761	785	801	801
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](http://vode.com).



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_SO\_35\_G2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L121911505 (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-G2-AL  
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 120° flying 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	3202
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	23.92
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.52
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.07 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	54475	48228	31848
55	51544	46170	30127
65	38531	38011	29189
75	21990	25372	25687
85	4063	7476	13701

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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>	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982
<b>5</b>	1068.232	1067.455	1067.362	1066.434	1066.191	1065.124	1064.346	1063.175	1061.667	1060.507
<b>10</b>	1088.463	1087.825	1086.224	1084.716	1081.944	1078.104	1074.705	1070.228	1065.321	1059.915
<b>15</b>	1112.765	1111.651	1109.749	1105.967	1100.805	1094.344	1086.560	1077.860	1067.258	1057.050
<b>20</b>	1127.358	1126.383	1123.367	1118.797	1112.185	1103.438	1092.500	1080.053	1065.077	1049.174
<b>25</b>	1128.622	1127.938	1124.481	1119.040	1110.630	1101.095	1088.022	1072.118	1053.988	1032.841
<b>30</b>	1113.936	1113.786	1110.630	1104.703	1096.096	1084.565	1070.912	1053.361	1031.484	1006.880
<b>35</b>	1084.275	1083.301	1079.658	1073.336	1065.170	1053.790	1039.302	1020.301	997.878	969.876
<b>40</b>	1034.488	1033.467	1030.161	1024.524	1016.160	1005.279	991.266	972.358	947.813	919.555
<b>45</b>	962.835	962.243	959.181	954.900	947.662	938.034	923.882	905.751	881.878	852.414
<b>50</b>	865.499	864.966	863.168	859.757	854.607	846.974	835.165	818.577	795.586	767.584
<b>55</b>	738.990	738.746	738.027	737.435	735.301	730.580	721.682	708.563	687.950	661.931
<b>60</b>	579.814	580.209	581.960	583.851	585.220	584.976	581.079	572.866	558.285	537.521
<b>65</b>	407.032	407.659	410.095	413.598	417.681	421.034	422.391	420.349	413.401	401.534
<b>70</b>	253.785	254.516	256.998	260.791	265.454	270.756	274.792	277.031	276.300	272.217
<b>75</b>	142.262	142.645	144.200	146.879	150.324	154.315	158.108	161.310	163.258	164.140
<b>80</b>	60.088	60.436	61.457	63.208	65.679	68.695	71.955	75.168	78.323	81.096
<b>85</b>	8.851	8.851	8.990	9.141	9.582	10.069	10.892	12.157	14.001	16.286
<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>
<b>0</b>	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982
<b>5</b>	1059.625	1058.512	1057.201	1056.609	1056.076	1055.008	1054.382	1054.092	1053.651
<b>10</b>	1054.568	1049.522	1044.708	1040.381	1036.390	1032.841	1030.602	1029.048	1028.073
<b>15</b>	1046.401	1034.256	1023.654	1013.828	1004.595	996.672	991.464	988.111	986.360
<b>20</b>	1032.110	1012.761	995.605	977.370	961.860	948.590	938.185	931.712	929.380
<b>25</b>	1009.362	985.049	958.937	934.148	911.052	890.683	875.220	865.836	861.613
<b>30</b>	978.878	948.288	914.846	882.806	852.032	825.781	805.168	792.663	787.710
<b>35</b>	937.350	901.424	863.655	823.635	787.269	756.355	731.844	716.926	711.474
<b>40</b>	883.676	843.819	801.804	758.536	718.040	682.451	656.827	640.784	635.146
<b>45</b>	815.666	774.578	731.264	685.908	645.064	610.253	584.048	568.446	562.902
<b>50</b>	731.264	690.768	649.055	606.610	569.896	537.567	514.425	499.983	495.227
<b>55</b>	628.824	592.609	556.672	521.432	491.480	465.856	447.679	435.858	431.926
<b>60</b>	511.606	483.070	456.228	431.532	410.918	393.658	381.559	374.019	371.049
<b>65</b>	385.688	369.008	353.788	340.182	329.196	320.195	313.826	309.604	308.340
<b>70</b>	266.382	260.014	254.516	250.038	246.396	244.157	242.069	240.561	239.981
<b>75</b>	164.523	164.616	164.616	164.964	165.497	166.124	166.425	166.367	166.182
<b>80</b>	83.578	85.817	87.615	89.065	90.329	91.164	91.744	92.127	92.081
<b>85</b>	19.546	22.991	25.868	27.956	29.174	29.708	29.847	29.951	29.847
<b>90</b>	0.000	0.000	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	398.93	N.A.	12.50
0-30	866.50	N.A.	27.10
0-40	1449.91	N.A.	45.30
0-60	2622.13	N.A.	81.90
0-80	3170.85	N.A.	99.00
0-90	3202.33	N.A.	100.00
10-90	3101.12	N.A.	96.80
20-40	1050.98	N.A.	32.80
20-50	1670.91	N.A.	52.20
40-70	1548.14	N.A.	48.30
60-80	548.72	N.A.	17.10
70-80	172.80	N.A.	5.40
80-90	31.47	N.A.	1.00
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	3202.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	101.20
10-20	297.73
20-30	467.57
30-40	583.41
40-50	619.93
50-60	552.29
60-70	375.92
70-80	172.80
80-90	31.47
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

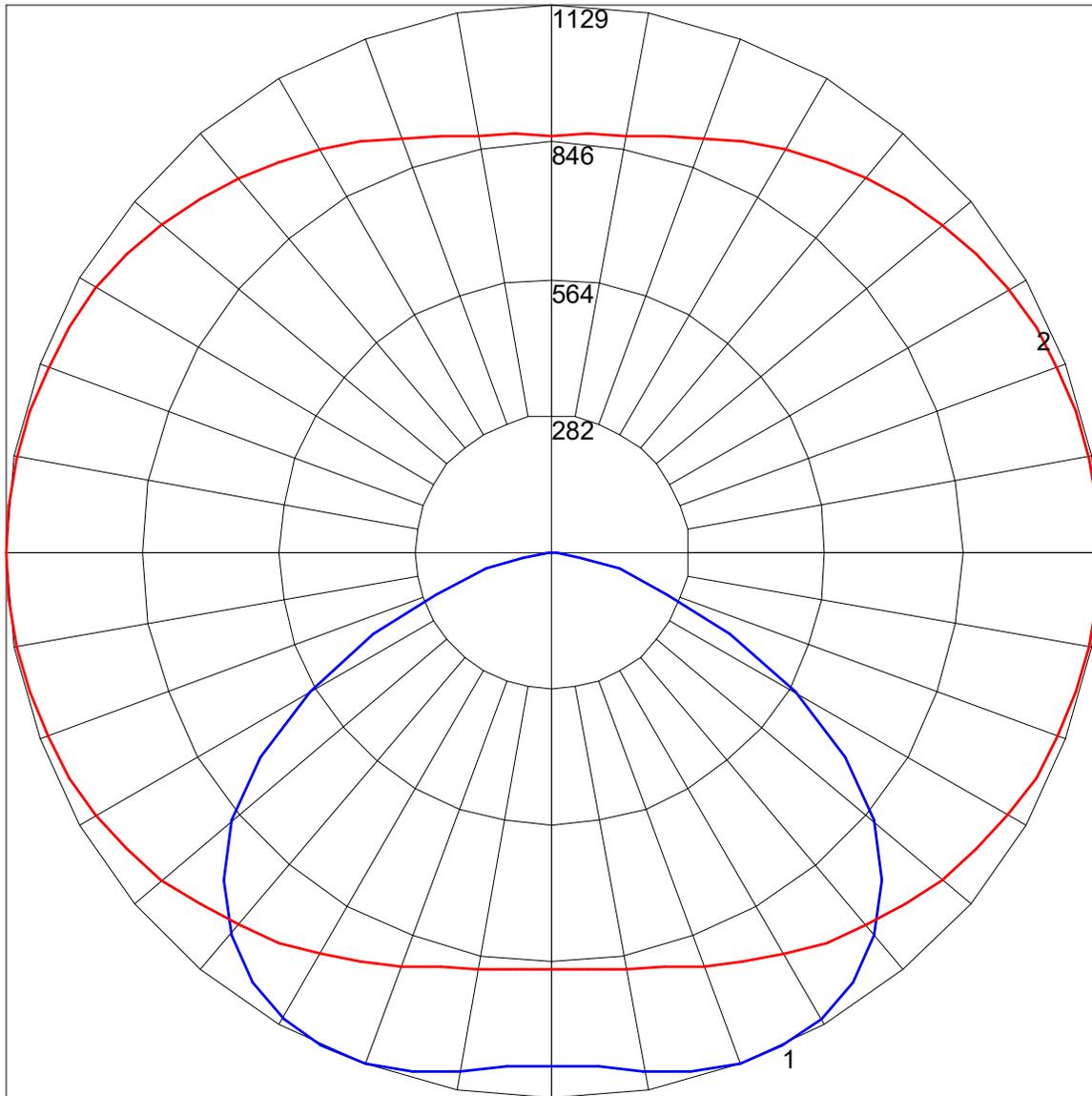
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1128.622 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)