

IES Report

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

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-S1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	34	35	35	35
Total Lumens, 4' rail length (1219mm)	458	472	482	482
Lumens per foot (305mm)	114	118	120	120
Input Power (W), 4' rail length (1219mm)	13.8	13.8	13.8	13.8
Watts per foot (305mm)	3.5	3.5	3.5	3.5
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\_LO\_35\_S1\_BL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L121911512 (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-LO-35-S1-BL  
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 40° black symmetric lens,  
[MORE] low 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	482
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	13.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.84
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	14557	23366	55502
55	7051	11169	30717
65	3544	6299	17656
75	2523	4048	10731
85	0	1398	5777

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>
0.0	478.036	478.036	478.036	478.036	478.036	478.036	478.036	478.036	478.036	478.036
1.0	442.523	451.832	459.656	467.439	471.424	472.369	473.732	474.388	475.385	488.975
3.0	453.949	455.868	462.283	468.628	473.611	475.774	476.458	476.847	477.381	488.905
5.0	445.684	449.668	458.246	464.545	467.921	470.113	471.325	472.369	473.396	474.829
7.0	433.817	439.750	446.606	453.386	457.081	459.198	459.975	461.407	463.426	465.665
9.0	425.018	428.521	436.688	443.126	446.774	445.411	446.119	448.160	454.505	458.467
11.0	422.391	420.135	423.319	427.135	427.669	425.604	427.303	430.778	435.470	441.838
13.0	397.938	395.821	397.596	401.708	402.653	400.612	402.798	405.594	413.012	420.738
15.0	339.016	341.661	349.467	354.183	359.310	368.283	373.967	381.675	390.282	398.646
17.0	323.988	322.799	326.418	331.209	335.170	340.982	345.773	354.618	364.878	375.428
19.5	303.276	300.289	299.460	301.507	300.481	302.940	299.512	309.987	322.654	336.290
22.5	226.513	228.358	230.109	232.760	241.970	249.267	259.428	260.107	274.763	290.348
25.5	200.744	197.850	197.751	198.627	201.277	207.066	215.279	214.090	229.257	245.595
29.0	154.848	151.374	150.475	153.393	155.771	158.810	164.111	175.659	189.318	204.873
33.0	102.585	103.919	102.875	103.895	107.155	112.404	120.547	131.196	133.383	148.161
37.5	65.929	66.729	66.485	68.115	71.369	75.939	81.971	90.062	91.449	103.240
42.5	45.165	43.877	43.633	44.631	46.481	47.862	52.043	57.588	64.635	73.585
47.5	28.345	28.124	27.788	28.298	29.099	30.554	29.899	33.715	38.506	44.411
55.0	14.442	14.222	14.001	14.268	14.709	15.509	15.242	17.238	19.790	22.875
65.0	5.348	5.493	5.516	5.690	6.055	6.490	7.122	7.923	8.242	9.506
75.0	2.332	2.332	2.308	2.430	2.482	2.598	2.842	3.138	3.260	3.741
85.0	0.000	0.000	0.000	0.000	0.046	0.046	0.099	0.145	0.244	0.435
90.0	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>
0.0	478.036	478.036	478.036	478.036	478.036	478.036	478.036	478.036	478.036
1.0	489.363	489.804	490.141	490.674	491.283	491.579	491.817	491.991	492.304
3.0	489.340	489.926	490.384	490.918	491.335	491.770	492.159	492.258	492.449
5.0	485.083	486.446	487.490	488.563	489.682	490.216	490.750	490.947	491.283
7.0	474.997	477.381	479.735	482.073	483.772	485.112	486.057	486.690	487.299
9.0	462.695	466.633	470.403	473.587	476.505	478.570	480.246	481.342	481.899
11.0	447.772	453.531	458.832	463.890	467.561	470.815	473.442	475.095	475.826
13.0	428.666	436.421	443.688	450.666	456.379	460.485	464.203	466.320	466.975
15.0	407.757	416.411	424.583	434.379	441.473	448.062	453.073	456.280	459.244
17.0	386.611	397.451	406.713	418.308	427.982	435.789	441.206	445.388	446.994
19.5	351.068	365.702	379.778	393.658	405.205	414.126	421.712	426.138	426.573
22.5	307.510	324.452	341.150	357.901	371.467	383.328	392.857	398.912	400.710
25.5	263.413	282.228	301.020	320.027	336.365	349.491	360.528	367.308	369.251
29.0	213.481	232.882	253.031	272.820	289.838	305.834	318.814	326.836	330.699
33.0	165.300	183.895	202.762	222.865	241.147	256.580	269.294	277.704	280.134
37.5	117.415	133.214	150.255	168.194	184.138	199.404	211.781	219.779	222.233
42.5	84.402	95.607	108.419	122.223	130.465	143.863	154.970	162.046	165.445
47.5	51.777	60.308	69.983	80.533	90.816	100.009	108.222	113.523	114.834
55.0	26.767	31.361	36.656	42.444	47.983	53.673	58.464	61.695	62.913
65.0	11.084	12.934	15.097	17.551	20.004	22.533	24.627	26.083	26.645
75.0	4.280	4.959	5.736	6.658	7.534	8.410	9.210	9.750	9.918
85.0	0.679	0.974	1.218	1.340	1.433	1.531	1.630	1.752	1.798
90.0	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	150.35	N.A.	31.20
0-30	269.49	N.A.	55.90
0-40	355.69	N.A.	73.80
0-60	449.50	N.A.	93.20
0-80	478.90	N.A.	99.30
0-90	482.10	N.A.	100.00
10-90	445.68	N.A.	92.40
20-40	205.33	N.A.	42.60
20-50	270.96	N.A.	56.20
40-70	114.19	N.A.	23.70
60-80	29.41	N.A.	6.10
70-80	9.03	N.A.	1.90
80-90	3.19	N.A.	0.70
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	482.10	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	36.42
10-20	113.93
20-30	119.13
30-40	86.20
40-50	65.63
50-60	28.18
60-70	20.38
70-80	9.03
80-90	3.19
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

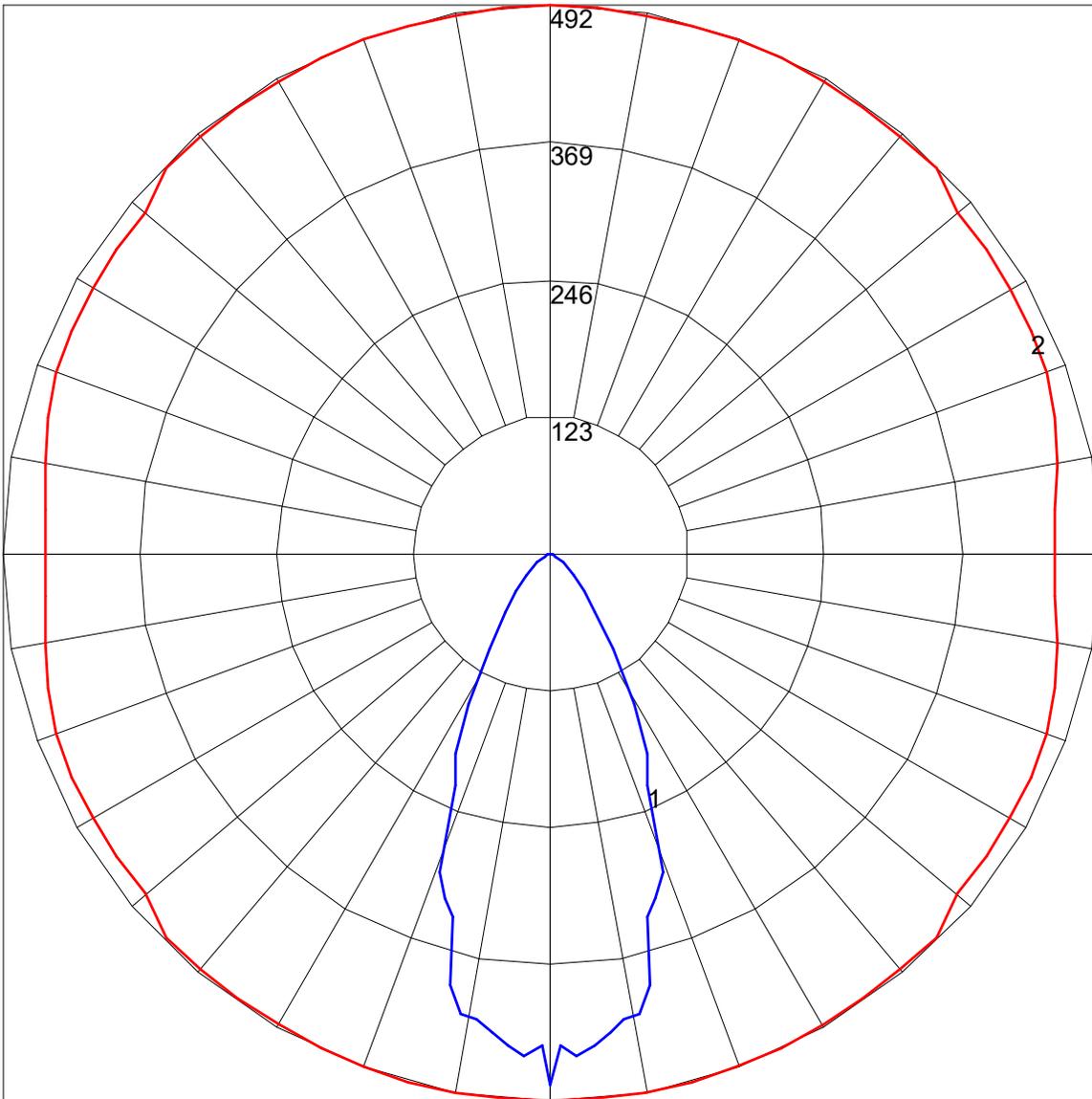
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	81	78	75	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	55	76	66	59	54	64	58	54	63	58	54	62	57	53	52
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48
9	69	58	51	47	68	58	51	47	56	51	47	56	50	46	55	50	46	45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42

POLAR GRAPH



Maximum Candela = 492.449 Located At Horizontal Angle = 90, Vertical Angle = 3  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)