

**IES Report**

**BoxRail® | 107 | 60° Symmetric | 80 CRI | LO**

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	39	40	41	41
Total Lumens, 4' rail length (1219mm)	533	550	561	561
Lumens per foot (305mm)	133	137	140	140
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\_S2\_BL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L121911513 (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-S2-BL  
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 60° black symmetric lens,  
[MORE] low output, black anodized finish  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	561
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	13.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.02 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	8550	14171	32017
55	4000	6938	18527
65	2287	3963	10890
75	1472	2498	6709
85	74	858	3597

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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>0.0</b>	523.705	523.705	523.705	523.705	523.705	523.705	523.705	523.705	523.705	523.705
<b>1.0</b>	500.470	504.072	503.707	507.326	518.387	524.830	529.157	531.883	533.971	537.712
<b>3.0</b>	502.611	505.505	505.313	510.342	520.069	525.509	528.914	532.539	537.231	541.360
<b>5.0</b>	501.155	502.906	503.295	507.158	516.519	521.768	524.854	529.836	535.966	539.876
<b>7.0</b>	487.200	488.122	489.340	492.571	503.997	509.054	511.438	515.788	521.455	529.546
<b>9.0</b>	470.281	470.838	472.201	475.704	487.519	491.991	496.196	502.245	512.703	518.926
<b>11.0</b>	448.647	448.137	449.813	452.243	463.478	469.092	471.888	479.034	492.988	502.152
<b>13.0</b>	421.712	420.546	422.078	424.508	434.791	440.962	445.266	455.184	469.846	481.174
<b>15.0</b>	394.441	393.124	395.287	397.184	406.400	413.302	419.305	434.768	449.036	461.581
<b>17.0</b>	364.391	362.082	364.803	367.065	375.109	381.066	386.976	400.490	416.486	431.798
<b>19.5</b>	324.284	321.558	324.742	325.716	333.396	338.940	348.661	366.189	383.548	399.492
<b>22.5</b>	274.398	271.069	273.673	272.797	278.992	286.358	295.377	311.182	331.087	349.027
<b>25.5</b>	228.798	225.005	228.381	230.596	234.268	241.245	251.645	267.693	286.334	305.561
<b>29.0</b>	177.358	174.006	176.703	174.516	177.822	184.214	194.474	208.377	227.093	246.349
<b>33.0</b>	127.815	124.775	127.745	130.442	131.608	134.305	142.547	154.848	170.943	187.810
<b>37.5</b>	85.080	83.039	85.376	83.816	85.614	89.772	96.970	107.254	119.747	134.305
<b>42.5</b>	53.337	51.800	53.238	54.717	55.135	56.399	61.039	67.628	76.357	87.000
<b>47.5</b>	33.014	32.138	33.014	33.669	34.011	35.177	38.309	42.810	49.033	56.127
<b>55.0</b>	16.385	15.973	16.408	16.431	16.774	17.551	19.128	21.390	24.720	28.420
<b>65.0</b>	6.902	6.757	6.954	7.001	7.122	7.465	8.120	9.118	10.405	11.960
<b>75.0</b>	2.720	2.697	2.772	2.749	2.819	3.016	3.260	3.550	4.060	4.617
<b>85.0</b>	0.046	0.046	0.046	0.046	0.046	0.099	0.145	0.220	0.365	0.534
<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>	523.705	523.705	523.705	523.705	523.705	523.705	523.705	523.705	523.705
<b>1.0</b>	541.018	542.990	545.374	547.996	549.504	550.745	551.423	551.789	552.496
<b>3.0</b>	543.646	546.783	548.535	549.915	550.379	551.499	552.108	552.351	552.641
<b>5.0</b>	542.967	544.545	545.931	545.977	547.149	548.361	549.405	550.089	550.066
<b>7.0</b>	534.679	536.744	538.008	539.220	540.972	542.433	544.011	544.545	544.765
<b>9.0</b>	524.030	527.313	529.644	531.442	533.559	535.937	537.521	538.762	539.220
<b>11.0</b>	509.252	513.602	516.374	519.726	523.421	526.437	528.769	530.108	530.712
<b>13.0</b>	489.218	497.338	501.810	506.769	511.340	515.034	517.876	519.918	520.794
<b>15.0</b>	470.502	478.981	485.448	492.014	497.826	502.709	506.647	509.176	509.611
<b>17.0</b>	444.199	453.554	462.550	471.012	478.378	484.259	488.952	492.182	493.278
<b>19.5</b>	412.670	423.655	434.890	445.608	455.062	463.205	469.116	473.054	474.655
<b>22.5</b>	368.892	383.107	396.871	410.217	422.199	431.851	439.263	444.199	446.264
<b>25.5</b>	322.242	339.062	355.395	371.293	385.271	396.674	405.229	410.942	413.059
<b>29.0</b>	266.087	284.757	302.795	321.778	337.873	351.335	361.549	368.039	370.324
<b>33.0</b>	206.480	226.026	245.085	264.045	280.888	295.063	305.834	312.927	315.532
<b>37.5</b>	150.110	166.762	184.504	202.397	217.709	233.247	244.354	251.621	254.318
<b>42.5</b>	99.859	113.668	127.890	142.448	156.646	169.650	179.400	185.844	188.251
<b>47.5</b>	65.122	74.750	85.666	97.283	108.518	119.213	127.403	132.727	135.111
<b>55.0</b>	33.257	38.605	44.776	51.829	58.708	65.221	70.789	74.484	75.893
<b>65.0</b>	13.879	16.095	18.693	21.634	24.720	27.811	30.409	32.161	32.869
<b>75.0</b>	5.348	6.177	7.099	8.242	9.361	10.504	11.449	12.157	12.400
<b>85.0</b>	0.876	1.166	1.386	1.607	1.752	1.943	2.117	2.187	2.239
<b>90.0</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	168.32	N.A.	30.00
0-30	306.42	N.A.	54.60
0-40	408.84	N.A.	72.90
0-60	521.00	N.A.	92.90
0-80	556.86	N.A.	99.30
0-90	560.79	N.A.	100.00
10-90	520.19	N.A.	92.80
20-40	240.52	N.A.	42.90
20-50	318.68	N.A.	56.80
40-70	136.94	N.A.	24.40
60-80	35.87	N.A.	6.40
70-80	11.08	N.A.	2.00
80-90	3.93	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	560.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	40.61
10-20	127.71
20-30	138.10
30-40	102.42
40-50	78.15
50-60	34.00
60-70	24.79
70-80	11.08
80-90	3.93
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

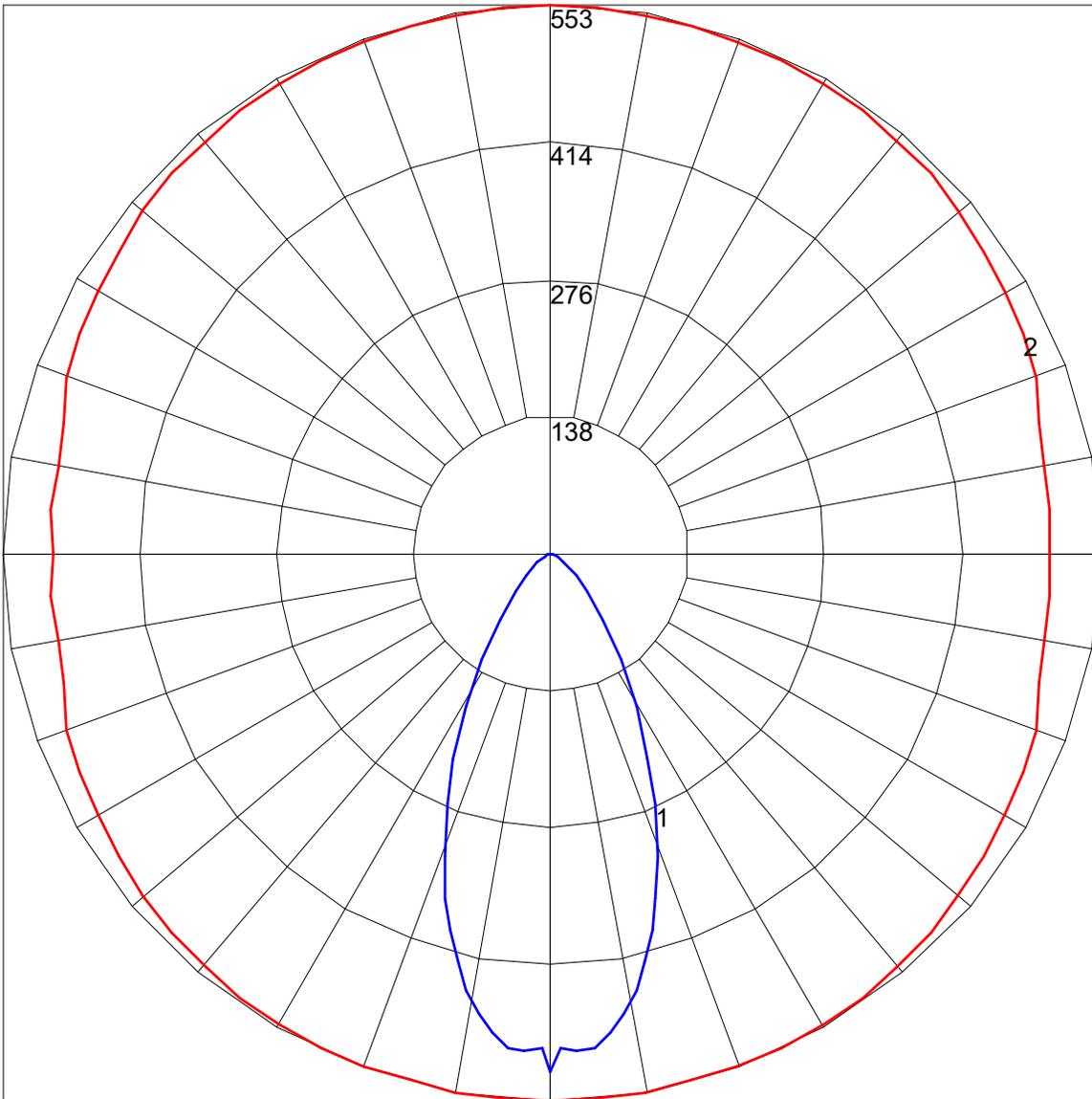
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	52	47	43	52	46	43	51	46	42	41

POLAR GRAPH



Maximum Candela = 552.641 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.)