

IES Report

BoxRail® | 107 | 85° Asymmetric | 80 CRI | LO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	63	65	67	67
Total Lumens, 4' rail length (1219mm)	869	897	915	915
Lumens per foot (305mm)	217	224	229	229
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_A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911511 (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-A1-AL
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 85° white asymmetric 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	915
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	13.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.78
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.04 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	45452	37196	17277
55	37600	29809	13685
65	26338	22374	11042
75	11442	14401	8654
85	158	233	5470

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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>
0	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116
5	491.237	490.262	489.775	488.418	486.811	484.868	482.293	479.956	476.215	472.468
10	571.747	570.534	569.270	566.445	562.994	558.088	552.299	545.931	537.863	529.302
15	622.114	621.000	619.440	616.041	611.227	605.584	598.293	589.785	579.281	567.518
20	641.857	641.613	639.520	636.214	631.452	625.130	617.596	607.968	596.495	583.370
25	636.115	635.338	633.348	630.234	625.420	619.295	611.227	601.309	588.909	575.343
30	611.807	611.030	609.035	605.636	600.433	593.624	585.023	574.519	561.196	546.221
35	573.498	572.622	570.436	566.643	560.709	553.030	543.257	530.909	516.519	500.233
40	522.058	521.333	518.897	514.669	508.155	499.745	488.511	474.655	459.145	441.548
45	459.053	458.125	455.990	451.808	445.098	436.154	424.531	410.141	393.953	375.672
50	386.123	385.491	383.740	380.045	374.407	365.267	354.183	340.814	325.397	309.210
55	308.044	307.557	306.246	303.717	299.193	292.146	282.814	271.046	257.868	244.209
60	229.964	229.819	229.378	228.021	225.150	220.481	213.869	205.314	195.541	185.623
65	158.984	159.077	159.320	159.222	158.201	156.066	152.465	147.361	141.282	135.059
70	95.584	95.874	96.651	97.626	98.501	98.646	97.968	96.216	93.734	90.724
75	42.299	42.636	43.854	45.553	47.693	49.979	51.777	52.942	53.430	53.238
80	6.421	6.566	7.001	7.923	9.239	11.136	13.613	16.576	19.494	21.878
85	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.290
90	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>	<u>95</u>
0	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116
5	468.628	463.814	457.690	451.223	444.663	437.709	430.412	422.832	415.002	405.327
10	519.924	508.590	495.952	482.438	468.582	453.653	438.242	422.054	405.814	390.305
15	554.538	539.029	521.379	502.274	482.241	460.653	438.144	414.422	390.740	367.163
20	568.394	550.501	529.987	507.036	482.728	455.747	427.303	397.596	367.940	337.798
25	558.963	539.760	517.540	492.501	465.763	434.983	403.094	369.402	335.756	304.152
30	529.111	509.078	486.133	460.317	432.552	400.855	367.697	332.404	297.494	264.579
35	482.142	461.483	438.387	413.059	385.833	355.059	322.822	288.985	255.391	223.642
40	422.687	402.073	379.656	355.836	330.896	302.841	274.009	244.308	213.237	185.333
45	357.245	337.363	317.185	295.597	273.917	249.992	224.321	196.707	174.493	151.299
50	291.224	274.497	257.044	239.151	221.166	201.765	181.830	161.362	141.091	121.301
55	230.011	216.497	202.785	188.738	175.462	160.637	144.055	128.012	112.114	96.361
60	175.949	166.077	155.916	145.708	135.401	124.219	112.068	99.957	87.510	75.504
65	128.499	121.835	115.321	108.611	101.367	93.299	84.547	75.649	66.654	57.664
70	87.464	83.868	80.121	75.992	71.276	66.074	60.430	54.358	48.227	42.398
75	52.606	51.440	49.932	48.036	45.605	42.636	39.382	35.734	31.993	28.542
80	23.583	24.551	24.841	24.650	24.018	22.852	21.443	19.790	17.939	16.286
85	0.922	2.430	4.768	6.513	7.389	7.633	7.534	7.244	6.809	6.513
90	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>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>
0	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116
5	398.037	389.528	382.237	375.573	368.619	362.303	356.514	350.633	383.061	379.755
10	375.185	359.919	344.996	331.331	317.620	310.764	300.214	289.182	280.378	271.921
15	345.042	322.967	302.110	283.005	264.289	248.002	233.317	249.458	237.696	228.213
20	310.428	283.539	258.697	236.576	215.522	220.238	203.905	188.831	177.457	167.927
25	273.917	244.598	218.150	195.251	173.954	156.745	142.210	131.950	121.788	113.425
30	233.705	204.636	179.011	157.377	137.976	122.809	111.435	100.787	92.620	86.246
35	194.718	168.026	144.785	126.017	109.539	97.138	87.708	79.344	73.173	68.504

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CANDELA TABULATION - (Cont.)

40	159.761	136.567	116.974	101.419	88.241	78.370	70.690	64.908	60.482	57.078
45	129.856	110.606	94.708	82.308	71.856	64.566	58.876	54.404	51.243	48.911
50	103.559	88.438	76.328	66.706	58.974	53.430	49.399	46.818	44.532	42.932
55	82.894	71.033	61.840	54.595	48.958	45.310	42.346	40.206	38.750	37.775
60	65.296	56.399	49.399	44.387	40.646	37.828	35.832	35.734	34.713	34.034
65	50.321	44.341	39.330	35.687	32.915	30.972	29.754	28.930	28.391	28.101
70	37.439	33.159	29.899	27.515	25.769	24.604	23.873	23.386	23.142	22.997
75	25.572	23.096	21.199	19.882	18.914	18.380	18.084	17.893	17.841	17.893
80	14.976	13.955	13.178	12.690	12.447	12.302	12.348	12.400	12.592	12.789
85	6.421	6.421	6.513	6.612	6.809	7.099	7.291	7.389	7.343	7.291
90	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>
0	418.116	418.116	418.116	418.116	418.116	418.116	418.116
5	377.957	377.470	378.201	380.144	381.066	379.366	422.199
10	265.164	291.467	289.084	288.063	287.286	284.658	322.532
15	219.994	214.403	210.128	207.454	205.459	202.687	231.716
20	160.440	155.237	150.522	147.361	145.220	142.692	162.383
25	106.714	101.610	110.020	107.201	105.258	103.362	115.907
30	81.096	84.402	83.039	80.898	79.344	78.080	85.765
35	64.757	68.260	65.929	64.421	63.493	62.570	67.286
40	54.595	52.751	55.036	54.062	53.528	52.995	56.011
45	47.595	48.958	48.134	47.595	47.357	47.113	49.201
50	41.859	42.688	42.543	42.346	42.247	42.154	43.564
55	37.143	38.118	37.920	37.828	37.729	37.677	38.698
60	33.646	33.449	33.402	33.350	33.350	33.304	34.127
65	27.910	28.733	28.733	28.832	28.930	28.832	29.464
70	22.997	23.728	23.821	23.919	24.018	24.018	24.604
75	17.992	18.624	18.769	18.914	19.012	19.059	19.447
80	12.980	13.514	13.711	13.856	14.053	14.146	14.488
85	7.291	7.343	7.586	7.633	7.731	7.778	7.975
90	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	153.11	N.A.	16.70
0-30	315.91	N.A.	34.50
0-40	496.32	N.A.	54.20
0-60	790.58	N.A.	86.40
0-80	908.56	N.A.	99.20
0-90	915.46	N.A.	100.00
10-90	875.45	N.A.	95.60
20-40	343.21	N.A.	37.50
20-50	509.13	N.A.	55.60
40-70	375.75	N.A.	41.00
60-80	117.98	N.A.	12.90
70-80	36.49	N.A.	4.00
80-90	6.90	N.A.	0.80
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	915.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.00
10-20	113.11
20-30	162.80
30-40	180.41
40-50	165.92
50-60	128.34
60-70	81.49
70-80	36.49
80-90	6.90
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

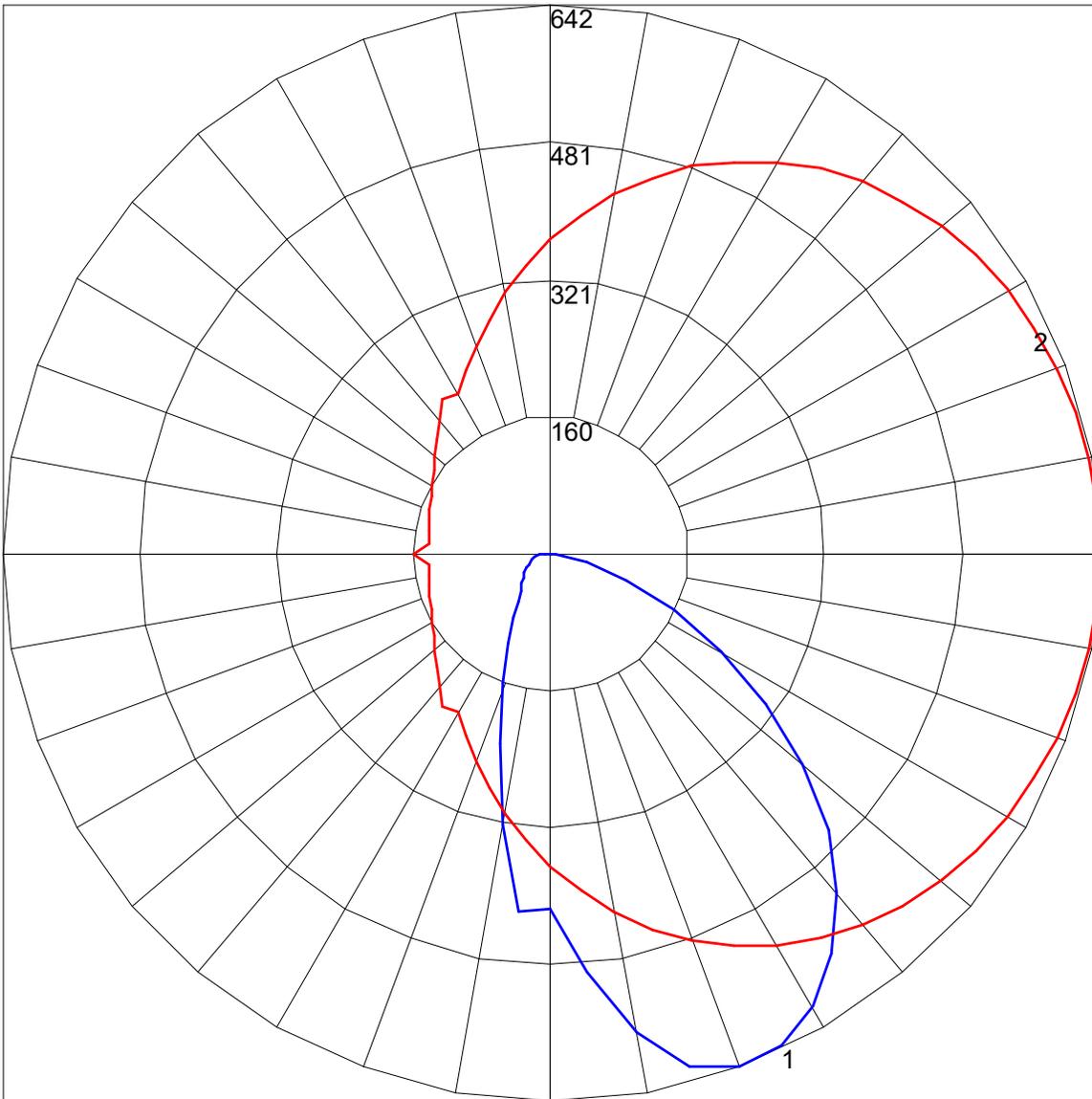
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	77	67	59	53	64	58	52	63	56	52	61	55	51	49
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

POLAR GRAPH



Maximum Candela = 641.857 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)