

IES Report

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

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	60	61	63	63
Total Lumens, 4' rail length (1219mm)	1411	1455	1485	1485
Lumens per foot (305mm)	353	364	371	371
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_A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911514 (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-A1-BL
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 85° black asymmetric lens,
[MORE] standard 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	1485
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	23.92
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.52
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.08
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	72341	56552	28671
55	57564	40924	17566
65	38628	27449	11421
75	14255	16282	7892
85	0	158	4687

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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	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899
5	994.143	994.920	994.920	992.682	988.308	984.318	978.773	973.333	967.405	960.492
10	1081.654	1081.746	1081.746	1076.886	1070.958	1064.149	1056.273	1047.132	1036.344	1024.872
15	1118.217	1117.440	1116.465	1111.315	1105.283	1097.696	1088.068	1077.466	1064.056	1049.568
20	1114.134	1113.542	1111.895	1107.232	1100.515	1092.256	1082.141	1069.891	1055.403	1038.768
25	1082.234	1080.876	1078.058	1073.383	1065.901	1056.273	1045.485	1031.286	1014.269	995.303
30	1022.146	1021.368	1018.260	1012.425	1003.574	992.774	978.588	961.466	941.143	919.080
35	944.553	943.382	939.101	932.002	921.608	907.793	890.973	869.872	845.373	819.111
40	844.979	843.424	838.471	830.595	818.241	801.514	781.190	756.981	729.756	699.909
45	730.626	728.979	723.631	715.175	702.334	684.052	660.620	633.685	604.325	571.161
50	602.284	600.822	596.542	588.665	576.021	557.937	535.479	508.057	477.236	446.020
55	471.598	470.624	466.830	460.613	449.523	433.678	413.644	390.595	363.080	335.275
60	347.722	347.037	344.706	340.228	332.549	320.392	304.836	285.488	263.610	241.628
65	233.172	232.882	232.000	230.156	226.072	218.880	208.962	195.936	180.960	165.694
70	134.386	134.572	135.163	135.940	135.650	133.702	129.618	123.296	115.223	106.476
75	52.699	53.093	54.740	57.374	60.390	62.907	64.566	64.658	63.011	60.192
80	4.280	4.373	4.860	5.835	7.389	9.721	12.841	16.727	20.416	23.142
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.197
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	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899
5	953.694	945.226	936.480	930.262	918.685	906.818	896.518	936.967	925.692	914.509
10	1011.543	996.568	980.328	964.876	944.263	922.861	900.984	927.049	903.814	879.013
15	1032.354	1012.808	990.930	968.182	941.537	910.902	880.475	893.594	860.929	826.024
20	1019.327	997.055	972.266	946.003	913.732	878.236	840.896	841.476	800.644	754.360
25	973.333	948.056	920.042	890.973	856.556	815.712	773.708	763.396	716.729	667.139
30	894.476	866.474	835.351	802.395	766.412	725.580	682.300	664.413	614.429	564.363
35	790.726	759.116	725.766	690.374	654.205	613.953	570.094	548.019	501.839	453.804
40	666.745	632.618	598.200	563.389	528.380	491.330	452.435	430.557	390.990	348.302
45	536.941	503.776	470.136	437.366	404.399	375.527	342.757	321.854	289.571	254.075
50	413.540	384.273	353.939	325.542	299.384	274.201	248.634	230.550	206.039	180.078
55	307.168	281.404	256.221	234.239	213.243	194.080	179.104	161.901	143.910	125.048
60	219.750	199.242	181.053	164.720	149.942	135.836	122.716	112.984	100.444	87.615
65	150.916	136.126	123.586	112.404	101.999	92.475	85.376	77.210	68.939	60.575
70	97.626	88.578	80.701	73.614	67.187	61.352	56.979	51.724	46.377	40.936
75	56.399	52.212	48.326	44.532	41.029	37.723	35.392	32.376	29.174	25.961
80	24.406	24.314	23.432	22.365	20.903	19.546	18.664	17.412	15.846	14.198
85	0.684	1.949	3.990	5.835	6.415	6.519	6.415	6.229	5.835	5.440
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	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899
5	904.000	893.304	883.189	872.888	863.458	855.001	846.150	838.761	831.268	823.588
10	855.964	832.532	808.810	786.248	763.210	742.296	722.854	703.702	686.291	669.958
15	791.700	756.007	720.325	686.581	651.874	620.461	590.707	562.217	537.126	513.799
20	710.790	665.098	619.486	576.706	532.660	494.543	458.861	425.500	396.534	370.562
25	617.549	565.628	513.892	466.738	418.598	377.568	340.912	307.168	278.968	253.298
30	512.140	461.680	410.141	362.686	317.179	278.586	244.934	214.994	190.101	169.186
35	407.125	356.955	309.790	267.693	227.627	195.158	167.632	143.620	124.944	109.875

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CANDELA TABULATION - (Cont.)

40	306.971	263.610	225.492	191.168	159.465	134.479	113.866	96.651	82.743	72.732
45	221.119	188.245	159.175	133.412	110.072	91.791	78.764	65.633	56.596	49.393
50	155.869	132.147	111.140	92.278	79.147	64.658	54.648	46.481	40.449	35.682
55	107.834	91.791	80.318	64.368	54.160	45.797	39.092	33.744	29.847	26.738
60	75.655	64.856	54.845	46.574	39.289	33.837	29.371	25.868	23.235	21.193
65	52.803	45.507	38.988	33.547	28.780	25.184	22.365	20.033	18.282	16.820
70	36.076	31.413	27.330	23.826	21.008	18.664	16.727	15.266	14.001	13.027
75	23.235	20.520	18.084	16.147	14.396	13.027	11.867	10.985	10.208	9.535
80	12.841	11.577	10.405	9.535	8.654	8.074	7.389	6.902	6.519	6.229
85	5.058	4.663	4.373	4.176	3.886	3.700	3.503	3.016	2.819	2.529
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	911.899	911.899	911.899	911.899	911.899	911.899	911.899
5	817.371	810.759	806.571	804.924	802.581	891.367	892.817
10	655.470	642.338	631.643	625.518	620.751	705.837	707.101
15	493.476	475.577	461.193	452.829	445.150	516.223	517.290
20	347.814	328.756	313.583	303.769	295.893	347.814	348.302
25	233.462	216.549	203.220	194.567	187.955	220.725	221.119
30	153.050	139.734	129.224	122.612	117.462	137.390	137.298
35	97.916	87.998	80.701	76.618	73.022	84.494	84.599
40	64.368	58.244	53.290	50.367	48.233	54.938	55.030
45	43.952	39.962	36.853	34.904	33.640	37.630	37.538
50	32.190	29.557	27.422	26.158	25.276	27.712	27.620
55	24.406	22.655	21.298	20.416	19.836	21.390	21.390
60	19.546	18.282	17.412	16.727	16.240	17.214	17.307
65	15.753	14.778	14.094	13.618	13.224	13.908	13.804
70	12.250	11.577	11.090	10.695	10.405	10.892	10.892
75	9.048	8.561	8.271	7.969	7.784	8.074	7.969
80	5.928	5.638	5.348	5.348	5.150	5.255	5.255
85	2.239	2.134	2.042	1.949	1.844	1.949	1.949
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	312.97	N.A.	21.10
0-30	616.86	N.A.	41.50
0-40	924.22	N.A.	62.20
0-60	1348.56	N.A.	90.80
0-80	1480.55	N.A.	99.70
0-90	1485.33	N.A.	100.00
10-90	1400.1	N.A.	94.30
20-40	611.26	N.A.	41.20
20-50	863.69	N.A.	58.10
40-70	520.13	N.A.	35.00
60-80	131.99	N.A.	8.90
70-80	36.20	N.A.	2.40
80-90	4.78	N.A.	0.30
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	1485.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	85.23
10-20	227.74
20-30	303.89
30-40	307.36
40-50	252.44
50-60	171.90
60-70	95.79
70-80	36.20
80-90	4.78
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

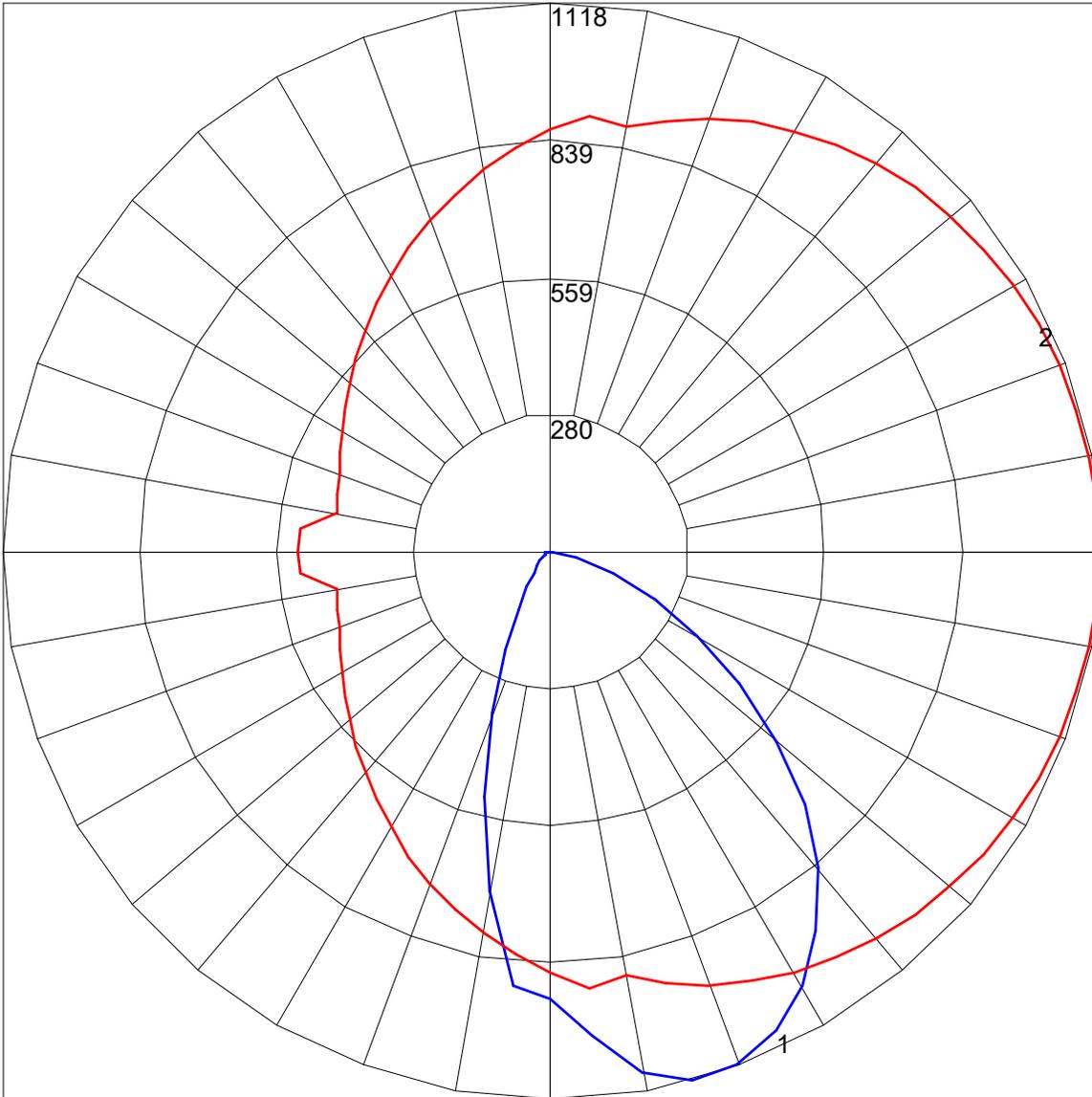
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78
3	96	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	82	71	64	58	81	70	63	58	68	62	57	66	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	39	48	42	38	37
10	60	48	41	36	59	47	40	36	46	40	36	45	40	35	45	39	35	34

POLAR GRAPH



Maximum Candela = 1118.217 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)