

IES Report

BoxRail® | 207 | 85° Asymmetric, down | 90 CRI | HO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-359-A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	42	44	45	45
Total Lumens, 4' rail length (1219mm)	2164	2232	2277	2300
Lumens per foot (305mm)	541	558	569	575
Input Power (W), 4' rail length (1219mm)	51.6	51.6	51.6	51.6
Watts per foot (305mm)	12.9	12.9	12.9	12.9
CRI	94	94	94	94

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_207_BX_HO_359_A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010910 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 207-BX-48-Z-HO-359-A1-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,

[MORE] 85° asymmetric lens down, high 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	2278
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	51.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.78
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.09 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26886	26137	20623
55	17498	16666	14230
65	9167	9323	9931
75	2259	3990	6944
85	381	441	3421

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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	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459
5	1362.357	1361.350	1360.362	1350.995	1343.604	1334.484	1323.711	1311.399	1297.605	1282.462
10	1564.954	1562.845	1554.542	1544.776	1532.084	1516.542	1498.264	1474.305	1448.389	1420.630
15	1700.633	1696.928	1686.972	1675.629	1660.277	1637.458	1612.549	1585.797	1557.468	1524.294
20	1762.117	1756.797	1747.658	1735.840	1715.719	1694.420	1670.385	1639.415	1609.167	1565.942
25	1756.702	1750.356	1744.257	1727.917	1710.608	1687.922	1661.474	1636.641	1590.642	1544.396
30	1684.711	1677.643	1670.499	1656.116	1639.643	1619.978	1598.109	1562.522	1520.171	1473.431
35	1558.570	1552.604	1543.826	1533.395	1515.212	1496.231	1475.027	1435.051	1397.469	1349.760
40	1393.574	1389.033	1380.521	1368.456	1353.085	1332.223	1302.222	1269.827	1229.509	1183.358
45	1202.130	1198.976	1191.034	1179.881	1163.617	1141.767	1111.975	1082.544	1038.597	996.208
50	991.591	988.019	981.958	972.325	958.759	938.448	912.760	879.339	841.301	796.214
55	778.487	775.789	773.338	766.327	755.307	738.929	715.578	685.197	651.909	614.061
60	579.728	578.170	576.270	572.489	565.269	553.299	534.641	516.287	486.001	455.943
65	393.395	394.022	396.454	395.979	391.799	384.978	375.725	361.057	342.684	321.271
70	231.249	232.636	237.215	239.476	242.212	241.091	238.450	234.346	223.649	212.610
75	90.459	95.057	103.170	107.179	113.468	119.187	123.481	130.169	128.573	123.785
80	13.699	23.123	19.798	23.940	26.372	29.089	32.623	40.147	43.966	51.243
85	13.699	13.680	13.414	12.977	12.521	11.837	10.906	10.165	10.279	11.742
90	15.409	15.447	15.124	14.820	14.345	13.699	13.053	12.274	11.305	10.203

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	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459
5	1266.084	1248.585	1230.117	1210.794	1190.768	1170.191	1149.215	1128.030	1106.731	1084.121
10	1391.237	1360.438	1329.202	1288.827	1248.376	1207.184	1165.555	1123.660	1082.050	1037.951
15	1483.729	1434.633	1384.720	1334.294	1283.602	1223.068	1161.850	1100.689	1040.649	977.360
20	1516.295	1463.988	1410.769	1341.020	1272.202	1204.619	1127.441	1050.966	977.265	899.403
25	1501.551	1441.416	1372.408	1308.207	1227.666	1147.524	1065.710	977.569	893.969	805.505
30	1418.825	1358.481	1293.463	1218.299	1148.151	1059.136	976.676	879.814	790.286	700.986
35	1294.831	1238.876	1167.132	1096.091	1019.046	937.156	852.055	758.860	666.520	586.036
40	1132.609	1071.049	1007.456	942.001	866.913	790.077	694.184	617.633	559.816	479.047
45	941.754	885.495	822.700	759.088	700.340	641.022	572.014	506.901	443.707	376.010
50	743.850	676.286	626.772	589.950	549.081	495.596	441.788	390.108	337.478	285.285
55	570.038	531.221	495.539	457.881	414.884	371.716	329.213	287.546	250.686	213.598
60	426.854	392.901	362.748	331.607	300.333	270.313	240.996	209.475	182.837	163.362
65	299.934	275.177	254.353	232.921	210.710	189.658	171.038	157.833	130.910	113.031
70	197.581	183.730	173.280	160.037	142.462	129.200	116.223	103.208	91.257	79.515
75	118.921	112.537	107.445	98.553	87.856	80.180	73.511	64.790	57.969	51.813
80	53.485	53.390	51.452	49.229	45.714	41.344	38.703	34.979	31.065	28.310
85	13.186	12.996	12.141	13.832	15.143	13.813	13.566	12.616	11.153	10.868
90	9.234	8.132	7.011	6.061	5.092	4.142	3.496	2.717	3.192	2.394

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	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459
5	1061.720	1039.775	1018.343	997.652	977.835	959.025	941.374	925.015	910.081	896.667
10	994.669	952.242	911.012	871.264	833.283	800.888	770.640	742.691	717.231	694.450
15	915.724	855.342	800.641	746.833	698.611	652.764	609.558	573.515	543.229	514.938
20	824.220	754.129	686.489	624.359	564.661	516.876	472.625	430.103	391.818	366.681
25	720.898	643.739	572.109	504.241	449.198	395.561	350.721	316.046	283.366	255.208
30	616.056	538.536	462.745	402.420	343.615	299.782	260.129	226.613	203.756	181.146
35	509.048	435.195	369.075	310.783	263.910	223.136	191.957	165.794	145.749	131.746

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CANDELA TABULATION - (Cont.)

40	406.467	340.993	286.539	236.987	199.082	167.884	141.740	124.070	108.547	98.667
45	316.730	263.682	218.405	181.754	150.347	127.053	109.269	94.031	85.291	76.817
50	240.331	200.982	165.851	138.339	116.261	98.439	85.139	76.247	68.533	63.365
55	180.462	151.829	127.224	105.963	90.060	78.147	69.046	61.997	56.696	52.535
60	136.344	114.228	96.881	82.460	71.079	62.415	56.145	50.787	46.341	42.883
65	99.009	84.911	73.036	63.327	55.689	49.628	44.365	40.299	37.411	35.074
70	70.642	61.313	53.447	47.139	42.199	37.696	33.782	30.495	27.949	26.106
75	45.676	40.622	36.081	32.224	28.766	24.947	21.869	19.703	18.411	17.366
80	25.688	23.389	19.703	16.815	14.554	12.939	11.628	10.849	10.830	10.792
85	10.165	7.429	6.213	6.137	5.453	5.244	5.244	5.339	5.282	5.187
90	2.223	2.546	2.546	2.394	2.717	2.717	2.717	2.869	3.021	3.192

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459
5	884.906	874.874	866.647	860.301	855.893	853.461	853.024
10	674.633	656.488	641.611	630.135	622.174	617.766	616.987
15	490.067	468.882	451.573	437.285	427.063	421.325	420.147
20	344.394	324.178	307.325	294.405	284.563	278.768	277.438
25	237.196	221.616	208.335	197.505	189.810	184.775	183.483
30	164.293	153.615	144.267	136.496	130.739	127.110	126.141
35	118.009	110.447	104.386	99.275	95.304	92.948	92.378
40	90.212	83.543	79.800	76.380	73.796	72.276	71.668
45	71.801	66.804	64.220	62.073	60.173	59.166	58.938
50	59.242	56.050	53.694	52.174	50.920	50.084	50.008
55	48.906	47.063	45.619	44.612	43.453	42.845	42.693
60	40.698	38.912	37.487	36.689	36.746	36.556	36.632
65	33.155	31.464	30.324	29.279	28.462	29.184	29.298
70	25.289	24.719	23.883	23.142	21.508	20.881	21.983
75	16.853	16.777	16.834	16.872	16.701	14.212	14.972
80	10.659	10.735	10.735	10.811	11.001	11.286	9.880
85	4.978	4.997	5.016	4.883	4.883	5.320	4.465
90	3.192	2.869	2.546	2.546	2.546	2.394	2.204

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	399.82	N.A.	17.60
0-30	827.13	N.A.	36.30
0-40	1296.57	N.A.	56.90
0-60	2013.67	N.A.	88.40
0-80	2263.5	N.A.	99.40
0-90	2277.5	N.A.	100.00
10-90	2172.65	N.A.	95.40
20-40	896.75	N.A.	39.40
20-50	1312.12	N.A.	57.60
40-70	895.24	N.A.	39.30
60-80	249.82	N.A.	11.00
70-80	71.69	N.A.	3.10
80-90	14.00	N.A.	0.60
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	2277.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.85
10-20	294.97
20-30	427.31
30-40	469.44
40-50	415.37
50-60	301.73
60-70	178.13
70-80	71.69
80-90	14.00
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

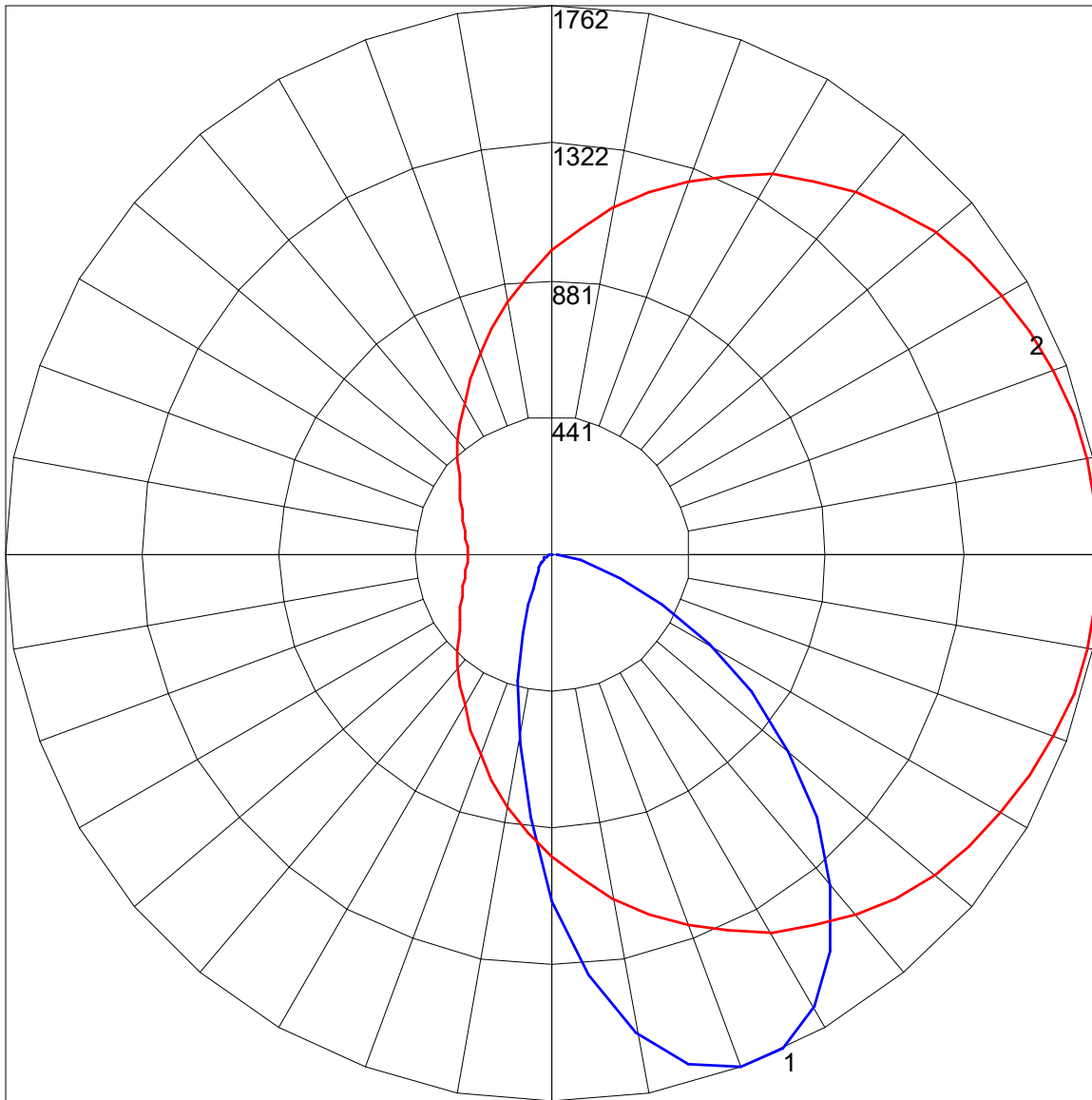
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	63	54	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	48	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	57	45	38	33	56	44	37	32	43	37	32	43	37	32	42	36	32	30

POLAR GRAPH



Maximum Candela = 1762.117 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.)