

IES Report

BoxRail® | 207 | Diffuse, down | 90 CRI | HO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-359-D1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	69	71	72	73
Total Lumens, 4' rail length (1219mm)	3513	3623	3697	3734
Lumens per foot (305mm)	878	906	924	934
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_D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 (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-D1

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

[MORE] diffuse lens down, high 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	3697
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	51.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
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	19566	23025	40885
55	15017	18365	37519
65	9794	12910	35616
75	4607	6410	30467
85	784	1502	21002

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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	1352.173	1352.173	1352.173	1352.173	1352.173	1352.173	1352.173	1352.173	1352.173	1352.173
5	1345.485	1344.915	1344.364	1343.965	1343.585	1343.262	1343.015	1342.825	1342.711	1342.673
10	1326.371	1325.231	1324.528	1324.072	1323.939	1324.110	1324.585	1323.502	1322.856	1322.628
15	1294.831	1293.368	1292.969	1293.140	1293.406	1291.886	1291.221	1291.411	1292.456	1292.494
20	1250.713	1248.813	1249.022	1249.345	1247.787	1247.692	1248.319	1247.711	1248.623	1248.509
25	1194.663	1193.200	1193.979	1192.611	1192.611	1192.231	1192.117	1194.245	1191.965	1191.072
30	1128.714	1127.213	1127.460	1126.491	1126.358	1126.301	1126.738	1125.883	1125.655	1125.066
35	1052.106	1050.833	1050.320	1050.909	1050.320	1050.738	1051.555	1049.560	1049.788	1049.617
40	967.860	966.872	965.694	965.333	965.808	966.321	965.504	966.055	967.271	967.442
45	874.855	874.722	874.095	873.848	873.487	874.152	873.905	875.710	875.197	877.572
50	775.314	774.250	773.908	774.117	774.744	775.542	775.998	777.879	777.632	778.715
55	668.116	667.166	668.287	668.762	665.684	661.390	663.955	667.166	671.783	676.666
60	551.703	550.468	547.523	539.201	536.674	538.042	542.621	549.879	556.054	564.357
65	420.299	419.805	406.258	401.964	405.232	408.120	416.575	423.092	433.428	444.847
70	291.308	280.801	277.666	281.238	288.135	290.548	293.151	297.540	306.964	318.307
75	184.433	173.565	183.350	184.642	183.426	182.837	182.286	183.274	191.273	198.854
80	98.743	100.434	102.638	102.638	102.391	102.353	102.486	103.208	108.262	106.723
85	28.196	37.164	35.093	35.397	35.834	36.290	35.511	37.430	38.855	40.033
90	13.091	13.224	13.053	12.901	12.502	12.179	11.704	11.077	10.431	9.633

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	1352.173	1352.173	1352.173	1352.173	1352.173	1352.173	1352.173	1352.173	1352.173
5	1342.692	1342.787	1342.958	1343.186	1343.490	1343.870	1344.231	1344.763	1345.314
10	1322.761	1323.293	1324.148	1323.559	1323.274	1323.312	1323.654	1324.224	1325.250
15	1291.848	1290.689	1290.347	1290.841	1292.285	1291.639	1291.715	1292.342	1294.033
20	1247.559	1246.590	1246.761	1245.222	1245.013	1246.229	1245.222	1245.165	1247.046
25	1192.231	1191.072	1189.324	1189.571	1188.545	1189.058	1189.685	1188.526	1190.198
30	1124.743	1124.838	1124.781	1123.470	1124.420	1123.508	1124.895	1123.508	1125.845
35	1049.484	1050.833	1050.111	1049.921	1049.541	1049.503	1049.902	1049.351	1050.510
40	967.575	967.936	967.727	966.929	966.625	968.240	967.822	967.252	967.214
45	876.432	878.047	878.921	877.952	878.446	880.213	880.156	880.004	879.624
50	779.855	782.629	783.541	783.389	782.800	783.351	783.712	783.522	782.800
55	674.690	674.804	682.423	683.601	678.300	672.809	667.698	663.366	660.953
60	568.879	574.294	576.707	577.676	576.441	576.593	577.980	578.683	579.728
65	453.929	461.966	465.367	467.020	468.901	469.718	469.357	468.540	469.509
70	331.398	344.527	352.735	356.421	358.625	359.898	360.886	360.240	361.057
75	210.064	223.801	235.961	242.858	248.862	252.738	251.123	250.724	254.353
80	109.535	117.363	128.611	133.988	151.392	154.337	154.375	153.159	151.943
85	40.584	41.515	45.752	47.196	49.248	53.523	60.515	66.747	68.476
90	8.911	7.961	7.334	6.688	5.966	5.339	5.016	4.617	4.617

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	492.12	N.A.	13.30
0-30	1041.09	N.A.	28.20
0-40	1698.01	N.A.	45.90
0-60	2973.9	N.A.	80.40
0-80	3638.03	N.A.	98.40
0-90	3696.97	N.A.	100.00
10-90	3569.32	N.A.	96.50
20-40	1205.89	N.A.	32.60
20-50	1881.83	N.A.	50.90
40-70	1712.27	N.A.	46.30
60-80	664.13	N.A.	18.00
70-80	227.75	N.A.	6.20
80-90	58.93	N.A.	1.60
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	3696.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	127.65
10-20	364.47
20-30	548.97
30-40	656.92
40-50	675.93
50-60	599.96
60-70	436.38
70-80	227.75
80-90	58.93
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

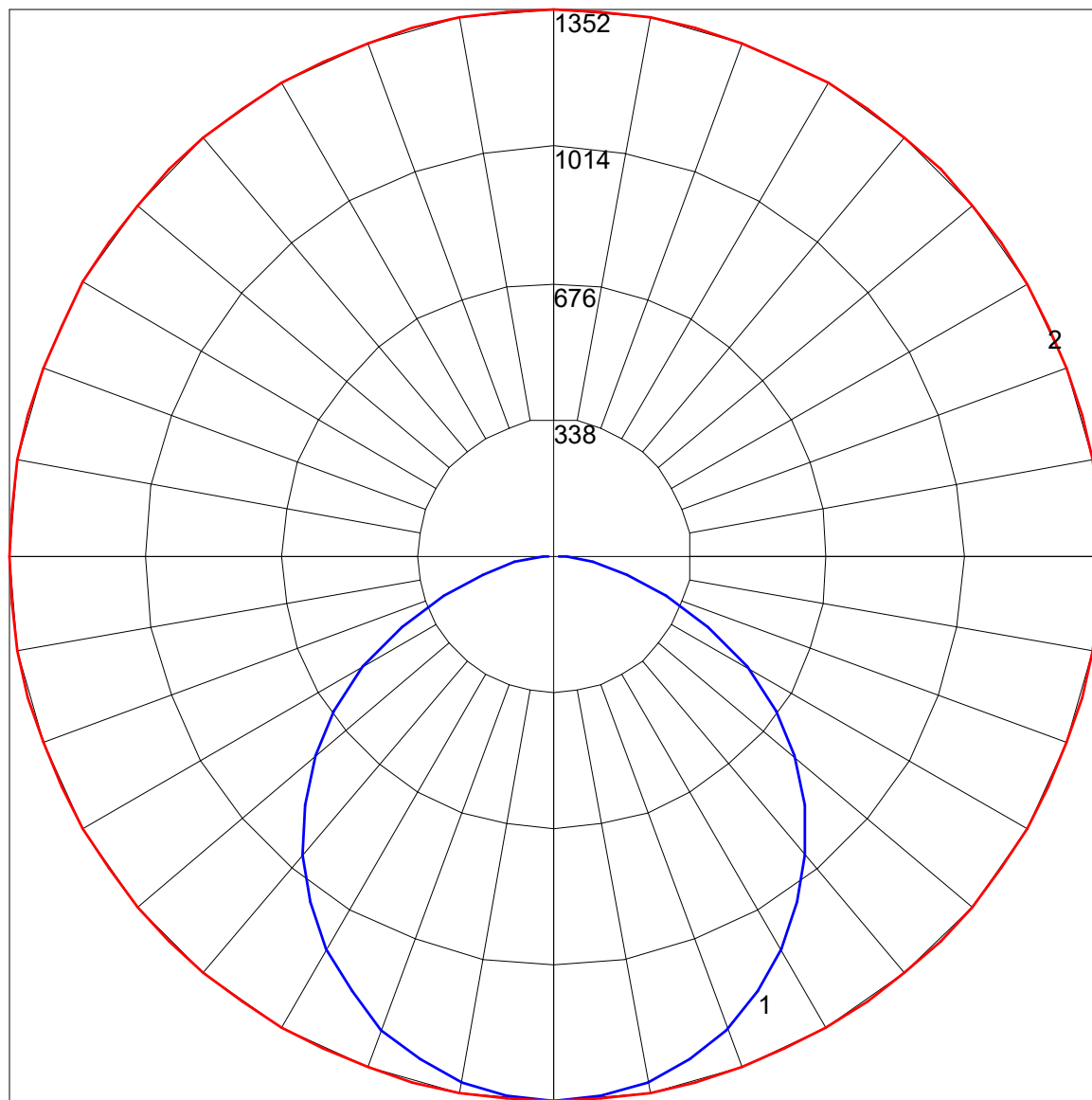
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1352.173 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)