

IES Report

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

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-D1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	53	55	56	57
Total Lumens, 4' rail length (1219mm)	2732	2818	2876	2904
Lumens per foot (305mm)	683	705	719	726
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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010913 (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-BL

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

[MORE] diffuse 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	2876
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	51.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
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	15014	18018	32246
55	11402	14179	30766
65	7437	9642	28174
75	3508	4893	23865
85	470	875	16020

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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	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209
5	1058.490	1058.034	1057.597	1057.331	1057.065	1056.837	1056.685	1056.590	1056.552	1056.590
10	1043.347	1042.568	1042.169	1041.922	1041.903	1042.131	1042.549	1041.751	1041.295	1041.143
15	1017.241	1016.196	1016.101	1016.462	1016.918	1015.892	1015.626	1016.120	1017.374	1017.773
20	982.186	981.027	981.559	982.148	981.103	981.084	981.502	980.875	981.483	981.749
25	938.714	937.232	937.612	936.966	937.536	937.631	937.726	939.493	937.821	937.422
30	885.685	884.754	885.172	884.697	884.887	885.134	885.856	885.457	885.647	885.742
35	822.605	821.807	821.617	822.434	822.586	823.707	824.999	824.239	825.778	826.462
40	750.139	749.721	749.664	750.310	751.849	754.091	754.376	756.029	758.385	759.905
45	671.308	671.764	672.163	673.379	674.367	675.374	677.711	681.321	682.442	686.755
50	592.781	592.059	591.565	592.306	593.845	595.080	598.082	600.533	602.604	607.145
55	507.262	506.445	507.072	507.908	506.806	503.975	505.514	509.105	514.615	522.443
60	417.126	416.499	414.238	407.512	405.308	405.308	408.576	412.205	419.273	427.709
65	319.162	318.364	306.717	303.658	305.121	309.111	313.956	318.231	325.071	332.253
70	223.763	214.320	210.482	216.125	220.305	223.516	225.777	226.803	232.085	240.540
75	140.467	129.599	136.363	138.035	137.655	138.016	138.795	140.277	145.863	151.810
80	64.030	64.600	66.025	67.507	68.115	69.084	69.939	71.725	73.834	76.551
85	16.891	20.026	17.936	17.651	17.594	18.468	17.366	19.703	21.679	23.313
90	9.747	9.956	9.956	10.108	10.032	9.880	9.709	9.234	8.759	8.037

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	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209
5	1056.666	1056.818	1057.046	1057.312	1057.635	1058.015	1058.414	1058.908	1059.440
10	1041.276	1041.713	1042.397	1042.093	1041.979	1042.093	1042.435	1042.967	1043.822
15	1017.393	1016.386	1016.063	1016.424	1017.564	1016.994	1016.937	1017.298	1018.514
20	981.578	981.502	982.224	981.274	981.312	982.452	981.806	981.882	983.459
25	938.847	938.353	937.574	938.581	937.878	938.087	938.619	938.277	940.139
30	885.799	885.932	885.970	885.989	887.851	886.958	887.927	887.034	889.029
35	826.671	827.944	826.899	827.184	827.773	828.001	828.248	828.058	829.293
40	761.102	761.273	761.653	762.033	761.938	762.793	762.242	763.154	765.909
45	686.869	688.104	691.068	689.776	688.921	692.208	692.778	693.196	693.766
50	610.736	614.004	615.372	615.999	616.683	619.210	620.141	620.179	619.704
55	526.129	530.803	534.945	538.194	539.372	539.961	540.113	540.550	541.975
60	435.594	442.757	445.740	451.383	454.689	456.076	456.950	456.836	458.052
65	341.259	349.429	356.117	361.703	365.446	368.847	371.431	371.241	371.412
70	248.577	256.975	265.544	271.377	276.355	281.390	286.178	285.000	285.874
75	160.360	169.841	179.531	181.925	187.017	193.401	198.303	199.481	199.234
80	80.294	87.419	93.670	96.900	103.892	109.193	119.985	132.221	126.141
85	24.434	25.403	28.272	31.331	33.991	38.494	45.562	50.749	52.231
90	7.334	6.536	5.738	5.092	4.617	4.218	3.819	4.465	6.365

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	387.29	N.A.	13.50
0-30	819.47	N.A.	28.50
0-40	1335.67	N.A.	46.40
0-60	2328.69	N.A.	81.00
0-80	2835.5	N.A.	98.60
0-90	2875.65	N.A.	100.00
10-90	2775.18	N.A.	96.50
20-40	948.38	N.A.	33.00
20-50	1475.78	N.A.	51.30
40-70	1327.32	N.A.	46.20
60-80	506.82	N.A.	17.60
70-80	172.51	N.A.	6.00
80-90	40.15	N.A.	1.40
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	2875.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.47
10-20	286.82
20-30	432.18
30-40	516.20
40-50	527.41
50-60	465.61
60-70	334.31
70-80	172.51
80-90	40.15
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

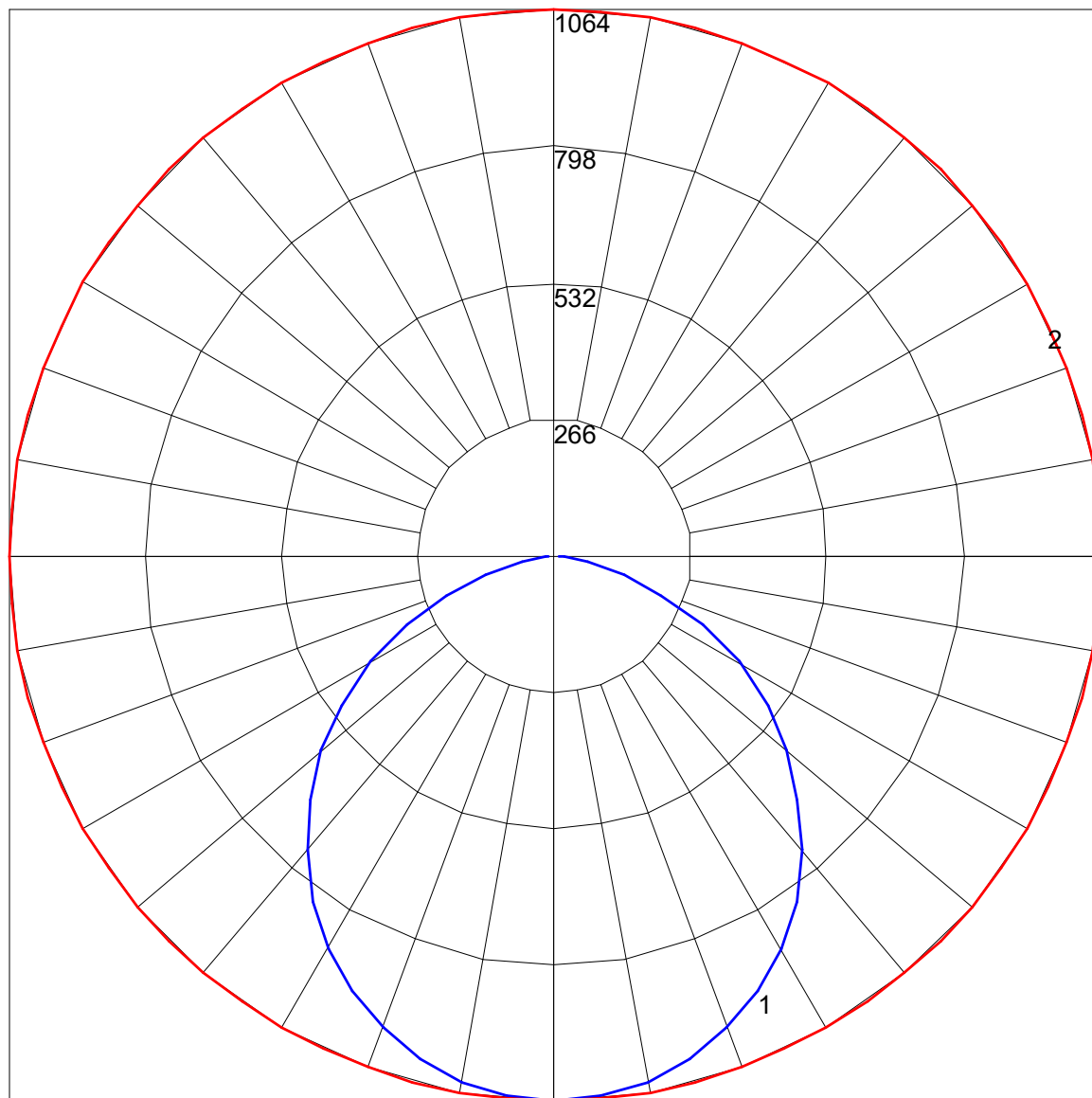
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1064.209 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.)