

IES Report

BoxRail® | 207 | 60° Symmetric, down | 90 CRI | HO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-359-S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	36	37	38	38
Total Lumens, 4' rail length (1219mm)	1843	1901	1940	1959
Lumens per foot (305mm)	461	475	485	490
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_S1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010911 (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-S1-BL

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

[MORE] 40° symmetric 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	1651
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	32
Total Luminaire Watts	51.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.80
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	2016	4992	26731
55	949	2361	15650
65	501	1145	8929
75	251	516	5342
85	217	239	2442

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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	1735.688	1735.688	1735.688	1735.688	1735.688	1735.688	1735.688	1735.688	1735.688	1735.688
5	1649.998	1649.067	1648.801	1649.200	1650.245	1651.955	1654.292	1657.237	1660.771	1664.875
10	1422.891	1421.713	1425.285	1431.669	1441.454	1454.526	1470.733	1485.477	1503.470	1524.389
15	1112.469	1111.500	1121.076	1136.086	1156.720	1178.608	1207.070	1241.783	1282.443	1325.117
20	800.318	799.577	813.846	833.549	856.786	888.478	927.029	968.734	1017.298	1073.272
25	536.256	538.878	552.064	570.133	596.448	628.368	665.190	708.225	763.572	827.146
30	344.489	347.168	357.846	373.236	394.896	421.211	451.516	494.076	548.720	602.965
35	217.550	219.735	227.050	239.020	254.068	272.384	295.260	334.400	373.768	423.738
40	137.294	139.061	143.944	151.981	162.640	174.933	195.415	220.438	248.444	290.320
45	90.155	91.523	94.278	99.256	105.488	112.841	128.611	142.994	167.257	190.266
50	60.686	61.408	63.460	66.785	70.813	77.216	85.405	96.444	110.827	130.188
55	42.199	42.636	43.985	46.170	48.488	53.181	57.570	65.607	75.088	87.001
60	30.419	30.571	31.312	32.376	34.048	36.746	40.261	44.327	50.996	59.242
65	21.508	21.641	22.116	22.990	24.396	25.593	28.101	30.970	34.789	39.444
70	14.497	14.364	15.599	15.998	17.081	17.974	19.000	20.710	23.009	26.163
75	10.032	10.336	11.609	11.533	11.666	12.122	12.540	13.224	14.459	15.998
80	8.759	9.063	9.519	9.196	9.196	9.253	9.329	9.386	9.443	9.576
85	7.809	7.904	7.752	7.543	7.391	7.182	6.897	6.536	6.479	6.365
90	7.752	7.885	7.961	7.809	7.638	7.562	7.334	6.935	6.365	5.890

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	1735.688	1735.688	1735.688	1735.688	1735.688	1735.688	1735.688	1735.688	1735.688
5	1669.511	1674.660	1680.246	1686.250	1692.634	1699.341	1706.219	1713.477	1720.868
10	1548.082	1574.359	1602.498	1611.770	1622.144	1633.563	1645.932	1659.023	1673.254
15	1365.055	1399.920	1438.376	1480.119	1527.087	1541.584	1558.133	1576.164	1596.798
20	1132.704	1194.682	1259.111	1308.169	1361.426	1420.763	1440.200	1462.373	1489.144
25	896.021	965.998	1039.737	1118.055	1179.615	1242.087	1290.822	1312.938	1342.141
30	670.700	746.206	821.902	903.868	987.373	1049.978	1117.105	1135.630	1163.446
35	484.424	550.031	621.680	693.956	776.606	847.514	908.751	940.025	966.910
40	333.488	391.362	449.350	513.361	581.400	641.877	687.268	725.762	763.686
45	227.886	266.893	313.842	371.032	426.284	477.831	520.467	553.337	575.111
50	151.715	181.070	216.049	255.132	297.293	336.376	368.562	392.426	405.973
55	103.265	121.942	144.381	171.893	201.457	228.095	250.667	268.033	275.690
60	69.407	81.035	96.197	114.855	134.919	154.052	169.328	177.251	182.039
65	46.113	54.226	64.391	75.753	87.609	99.294	109.573	115.140	117.705
70	30.286	35.549	42.009	48.982	55.955	63.080	69.445	72.960	74.860
75	18.411	21.489	25.460	29.621	33.687	37.696	41.097	43.282	44.593
80	10.336	11.324	13.015	14.991	17.195	19.228	21.242	22.211	22.135
85	5.947	5.434	5.814	6.365	6.650	6.631	7.581	8.227	7.961
90	5.339	4.788	4.389	3.819	3.496	3.021	2.546	2.869	3.021

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	526.49	N.A.	31.90
0-30	931.67	N.A.	56.40
0-40	1249.57	N.A.	75.70
0-60	1563.17	N.A.	94.70
0-80	1642.72	N.A.	99.50
0-90	1651.49	N.A.	100.00
10-90	1496.09	N.A.	90.60
20-40	723.08	N.A.	43.80
20-50	925.26	N.A.	56.00
40-70	369.06	N.A.	22.30
60-80	79.56	N.A.	4.80
70-80	24.10	N.A.	1.50
80-90	8.77	N.A.	0.50
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	1651.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	155.41
10-20	371.09
20-30	405.18
30-40	317.90
40-50	202.18
50-60	111.42
60-70	55.46
70-80	24.10
80-90	8.77
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

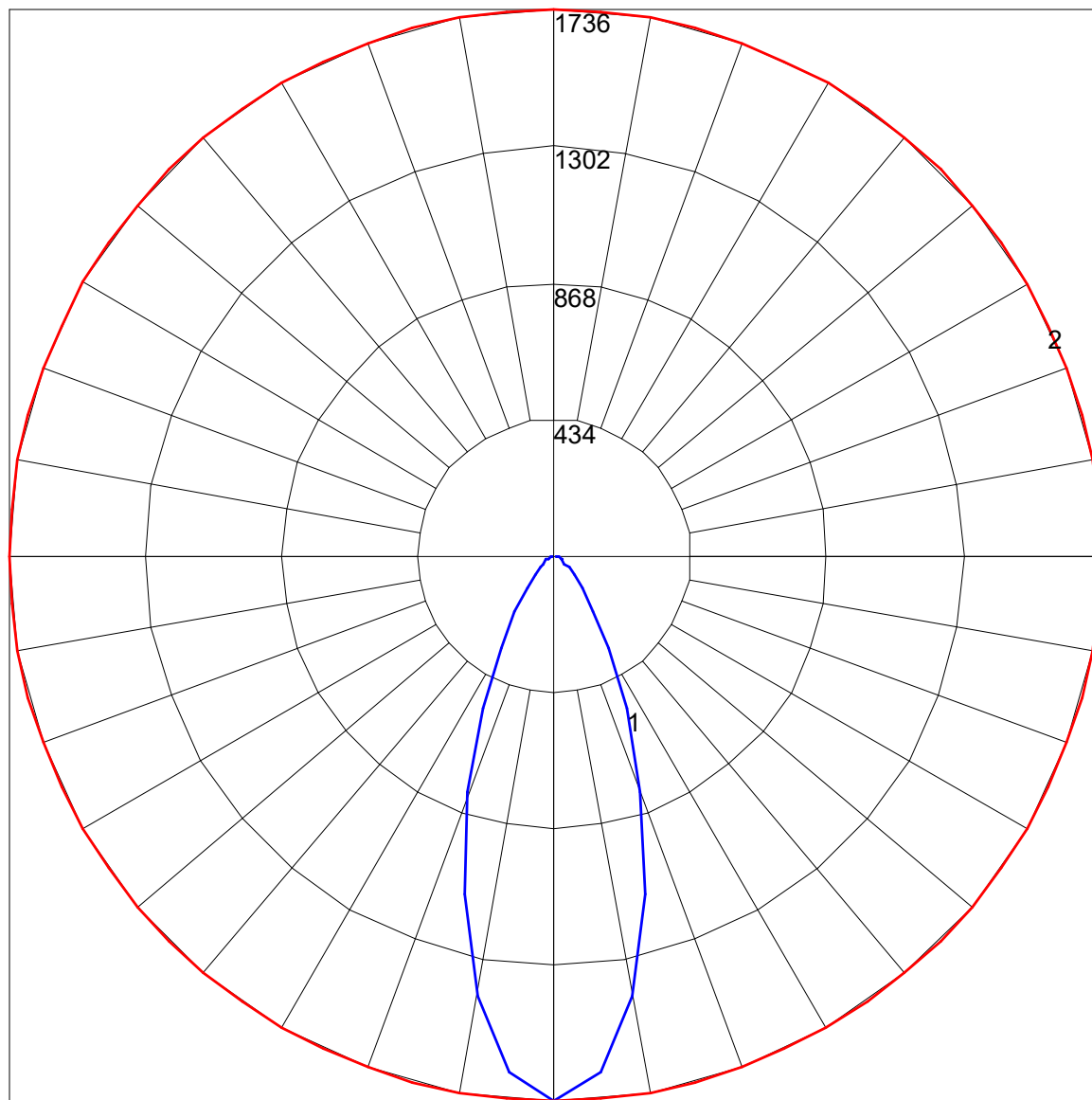
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	74
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	55	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	69	59	52	48	57	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	44	53	48	44	43

POLAR GRAPH



Maximum Candela = 1735.688 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.)