

IES Report

BoxRail® | 207 | 120° Flywing, down | 80 CRI | SO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-SO-35-G2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	126	130	132	132
Total Lumens, 4' rail length (1219mm)	3161	3261	3327	3327
Lumens per foot (305mm)	790	815	832	832
Input Power (W), 4' rail length (1219mm)	25.3	25.3	25.3	25.3
Watts per foot (305mm)	6.4	6.4	6.4	6.4
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_207_BX_SO_35_G2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022012001 (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-SO-35-G2

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,

[MORE] 120° flywing lens down, standard 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	3327
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	25.26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.64
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.54
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	22704	23658	28799
55	16757	18745	27372
65	9643	12114	24799
75	3094	4937	18915
85	349	578	6980

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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	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206
5	1069.404	1068.673	1067.919	1066.794	1065.738	1064.602	1063.407	1062.154	1060.855	1059.509
10	1109.273	1107.638	1105.062	1102.093	1098.566	1094.530	1089.971	1082.605	1075.076	1067.351
15	1162.645	1160.325	1156.102	1150.975	1143.864	1132.299	1119.899	1106.779	1093.045	1076.805
20	1210.878	1207.653	1202.178	1194.429	1180.984	1166.357	1149.792	1129.132	1107.881	1085.540
25	1237.128	1232.848	1227.547	1215.877	1202.305	1184.847	1164.501	1143.876	1113.867	1082.663
30	1229.844	1226.062	1220.517	1209.404	1195.879	1179.140	1159.884	1133.332	1101.977	1067.107
35	1187.933	1184.221	1178.282	1170.544	1158.457	1144.839	1128.158	1098.276	1068.488	1032.029
40	1115.201	1112.660	1107.243	1099.982	1091.479	1081.166	1062.061	1039.592	1013.109	976.024
45	1015.139	1014.026	1010.047	1004.862	998.180	990.942	974.493	958.694	929.844	901.703
50	890.973	889.012	886.321	884.013	881.797	875.881	865.812	851.672	830.108	800.644
55	745.509	743.583	743.815	744.082	741.402	732.923	729.443	719.397	708.099	690.687
60	590.811	589.767	587.540	577.912	575.569	572.936	572.193	571.451	565.546	554.956
65	413.842	414.944	407.833	403.958	404.782	412.125	413.262	411.464	415.570	417.426
70	250.966	245.073	245.201	247.463	259.051	262.276	267.914	272.577	278.226	279.943
75	123.876	116.835	126.196	128.632	131.753	136.207	139.734	143.341	150.846	153.178
80	34.614	40.983	38.999	41.226	43.581	45.344	48.476	54.543	57.188	65.389
85	12.540	13.549	13.630	13.502	13.398	13.352	12.876	13.038	13.885	15.393
90	7.540	7.586	7.540	7.540	7.482	7.343	7.250	7.006	6.658	6.322

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	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206
5	1058.140	1056.760	1055.368	1053.976	1052.607	1051.250	1049.858	1048.640	1047.422
10	1059.498	1051.552	1043.733	1039.743	1036.042	1032.620	1029.488	1026.577	1024.187
15	1061.064	1047.260	1033.827	1020.858	1008.156	1002.205	997.113	992.566	989.178
20	1061.377	1036.066	1011.810	993.111	975.537	958.891	951.478	945.191	940.957
25	1051.760	1018.886	986.394	955.596	932.048	911.145	895.740	887.794	882.806
30	1029.059	989.434	950.202	913.442	879.744	855.813	834.666	825.758	820.480
35	989.967	947.998	902.387	860.546	823.403	794.275	772.189	760.345	753.675
40	935.946	889.082	842.740	797.233	759.023	727.436	706.080	692.717	685.908
45	858.354	816.501	770.959	726.717	688.750	659.193	638.870	625.774	619.591
50	766.853	727.772	686.488	647.129	611.610	586.693	568.516	556.487	551.232
55	657.697	624.080	591.194	557.426	528.983	508.625	494.032	484.625	482.189
60	536.964	513.370	484.045	456.066	433.747	417.751	407.427	400.014	398.576
65	408.691	390.340	372.105	357.176	345.761	336.957	331.888	328.802	326.911
70	279.038	276.776	270.408	261.394	253.820	248.136	245.595	244.122	242.707
75	158.270	163.386	166.147	163.258	160.138	159.187	155.950	155.533	157.911
80	65.528	69.786	75.156	83.787	87.441	87.186	85.260	84.831	85.086
85	16.553	17.168	18.050	19.604	20.103	21.158	21.054	21.495	22.759
90	5.788	5.348	4.860	4.373	3.990	3.550	3.109	3.213	3.109

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	406.21	N.A.	12.20
0-30	899.33	N.A.	27.00
0-40	1522.98	N.A.	45.80
0-60	2753.97	N.A.	82.80
0-80	3299.81	N.A.	99.20
0-90	3327.48	N.A.	100.00
10-90	3226.14	N.A.	97.00
20-40	1116.77	N.A.	33.60
20-50	1774.00	N.A.	53.30
40-70	1614.09	N.A.	48.50
60-80	545.84	N.A.	16.40
70-80	162.74	N.A.	4.90
80-90	27.67	N.A.	0.80
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	3327.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.34
10-20	304.87
20-30	493.12
30-40	623.65
40-50	657.24
50-60	573.75
60-70	383.10
70-80	162.74
80-90	27.67
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

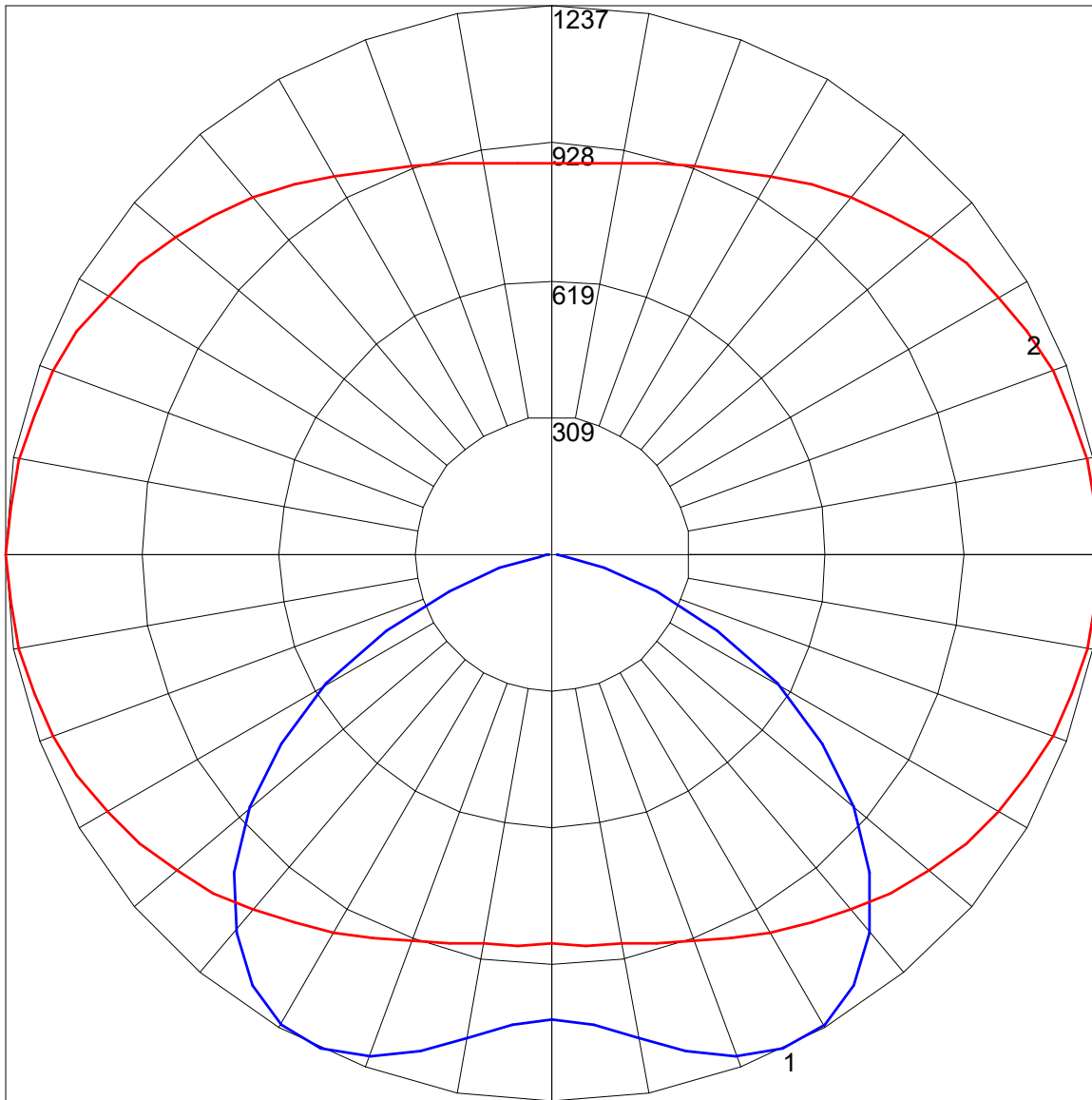
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	48	42	69	56	48	42	55	47	42	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	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1237.128 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)