

IES Report

BoxRail® | 207 | Wide Batwing, up | 60° Symmetric, down | 80 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	67	69	70	70
Total Lumens, 4' rail length (1219mm)	1899	1959	1998	1998
Lumens per foot (305mm)	475	490	500	500
Lumens per foot UP (305mm)	334	345	352	352
Lumens per foot DOWN (305mm)	141	145	148	148
Input Power (W), 4' rail length (1219mm)	28.8	28.8	28.8	28.8
Watts per foot (305mm)	7.2	7.2	7.2	7.2
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_LO_35_G1S2_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010912 (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-LO-35-G1S2-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up,

[MORE] 60° symmetric lens down, low 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	1998
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	28.76
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
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	889	2069	8210
55	397	931	5045
65	196	436	2976
75	94	193	1829
85	64	79	820

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_207_BX_LO_35_G1S2_BL.IES

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	566.010	566.010	566.010	566.010	566.010	566.010	566.010	566.010	566.010	566.010
5	547.636	547.271	547.062	546.952	547.015	547.224	547.578	548.077	548.715	549.486
10	492.304	491.776	492.356	493.650	495.772	498.707	502.419	505.447	509.310	513.915
15	411.162	410.628	412.740	416.336	421.312	426.254	432.976	441.421	451.507	461.697
20	316.987	316.419	320.241	325.722	332.004	340.941	351.915	363.445	377.139	390.746
25	226.948	227.435	231.524	237.063	245.427	255.484	267.148	281.120	296.148	313.542
30	152.465	153.195	157.052	162.806	170.694	180.049	190.669	204.224	221.137	238.073
35	98.403	99.087	102.057	107.103	113.135	120.304	128.806	142.245	155.788	171.993
40	62.327	62.942	65.134	68.631	73.016	77.737	85.498	95.045	105.357	119.787
45	39.771	40.206	41.812	44.097	46.754	49.764	55.953	61.445	70.545	78.868
50	25.961	26.309	27.312	28.768	30.357	33.037	36.540	40.704	45.849	52.444
55	17.649	17.835	18.496	19.337	20.143	22.052	23.693	26.732	30.177	34.301
60	12.012	12.105	12.511	13.056	13.682	14.680	15.898	17.412	19.917	22.904
65	8.410	8.474	8.584	8.949	9.466	9.848	10.684	11.710	13.131	15.010
70	5.545	5.527	5.910	6.142	6.513	6.832	7.163	7.743	8.625	9.790
75	3.747	3.828	4.263	4.257	4.356	4.553	4.762	5.005	5.429	5.974
80	2.964	3.126	3.219	3.155	3.190	3.225	3.277	3.364	3.387	3.521
85	2.285	2.471	2.395	2.326	2.250	2.250	2.088	2.076	2.088	2.094
90	2.395	2.453	2.453	2.430	2.384	2.308	2.262	2.163	1.995	1.850
95	8.074	11.223	10.579	11.113	11.971	13.305	14.117	17.203	20.764	20.938
100	40.159	42.044	44.144	47.316	50.129	54.044	58.058	62.779	67.698	69.095
105	101.610	94.882	102.080	105.763	109.794	115.965	121.481	125.796	131.028	130.042
110	197.438	192.351	194.062	197.304	206.770	208.319	213.637	215.105	208.585	198.528
115	334.057	332.613	319.783	313.600	311.663	309.859	302.192	291.201	276.822	257.682
120	434.159	431.358	424.485	413.099	403.291	388.351	373.120	355.772	328.947	299.866
125	498.481	495.053	488.018	477.357	465.363	443.265	423.806	394.354	364.687	330.588
130	524.442	521.356	512.906	500.209	484.799	464.748	439.831	410.756	378.166	344.961
135	521.478	518.868	510.702	497.953	481.319	461.512	436.021	409.074	378.885	348.754
140	499.015	496.341	489.178	477.827	462.910	444.901	422.745	398.564	372.789	346.875
145	466.343	464.116	458.328	449.291	436.589	421.289	403.622	383.560	362.552	341.104
150	430.024	428.202	424.073	416.765	407.090	395.044	380.961	365.591	349.839	332.607
155	393.658	392.271	389.540	384.146	377.278	368.584	358.376	347.304	335.675	323.930
160	360.406	359.641	357.477	354.450	349.659	344.126	337.717	329.985	321.743	314.517
165	332.497	331.980	330.670	329.046	326.807	323.454	319.725	315.653	311.274	306.199
170	311.883	311.559	310.903	310.132	309.181	308.061	306.779	304.836	302.806	300.689
175	299.245	299.112	298.984	298.700	298.462	298.201	297.917	297.615	297.291	296.954
180	295.220	295.220	295.220	295.220	295.220	295.220	295.220	295.220	295.220	295.220

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	566.010	566.010	566.010	566.010	566.010	566.010	566.010	566.010	566.010
5	550.385	551.400	552.531	553.767	555.101	556.516	557.989	559.549	561.150
10	519.222	525.190	531.645	533.252	535.178	537.399	539.899	542.625	545.687
15	470.745	478.077	486.469	495.859	506.758	509.182	512.239	515.771	520.115
20	404.631	419.131	434.420	444.831	456.553	470.084	473.425	477.705	483.505
25	332.920	350.424	367.465	386.205	399.603	413.401	423.986	427.895	434.159
30	257.543	278.354	298.445	317.678	337.717	351.091	366.189	369.524	376.014
35	190.559	209.699	229.877	249.742	268.482	284.241	298.207	304.082	309.018
40	133.522	148.550	165.781	184.689	200.883	216.630	228.543	236.594	242.602
45	91.095	103.083	117.769	131.898	146.230	160.126	168.554	173.774	176.627
50	59.827	69.275	80.011	91.367	102.944	112.827	120.460	125.750	127.913
55	40.310	46.684	53.598	61.584	69.803	76.885	82.534	86.640	88.873
60	26.605	30.578	36.395	41.400	47.270	52.734	56.573	58.638	59.705

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_207_BX_LO_35_G1S2_BL.IES

CANDELA TABULATION - (Cont.)

65	17.464	20.387	23.681	27.219	30.827	34.121	36.882	38.477	39.237
70	11.235	13.114	15.347	17.649	19.720	21.820	23.757	24.841	25.329
75	6.780	7.876	9.205	10.521	11.965	13.172	14.210	14.842	15.266
80	3.793	4.153	4.756	5.243	5.881	6.728	7.360	7.656	7.778
85	1.949	1.844	2.018	2.279	2.216	2.268	2.535	2.778	2.674
90	1.653	1.485	1.340	1.189	1.044	0.922	0.777	0.708	0.731
95	22.336	23.600	22.788	21.077	18.241	17.626	17.771	18.728	19.157
100	68.417	67.257	62.153	55.436	49.967	47.026	45.803	44.498	44.341
105	126.510	115.896	103.692	90.248	80.539	73.324	68.057	65.291	65.198
110	182.016	162.684	142.483	124.329	110.171	100.259	94.076	90.892	89.604
115	230.695	201.341	176.685	155.249	138.202	126.098	118.819	114.625	113.135
120	268.830	235.840	206.347	182.288	164.030	150.922	142.320	137.605	136.567
125	294.170	260.414	229.842	203.731	185.600	172.579	163.595	158.491	156.890
130	310.596	278.272	249.626	224.431	204.421	191.957	183.379	177.996	175.902
135	318.385	289.890	263.941	241.941	223.509	209.496	200.738	195.704	194.277
140	320.810	296.972	274.647	254.655	239.047	226.217	218.010	212.889	210.273
145	319.969	300.005	281.770	265.327	251.882	241.326	233.450	229.610	227.580
150	316.465	301.078	286.213	274.033	262.496	254.939	247.979	245.236	243.333
155	311.936	300.498	290.070	279.920	272.762	266.365	261.586	259.185	257.433
160	307.017	299.065	291.299	285.911	280.708	275.662	273.528	271.678	270.268
165	301.513	297.702	293.898	290.122	286.358	284.652	283.173	281.793	280.674
170	298.491	296.241	293.996	292.970	292.013	291.102	290.249	289.443	288.741
175	296.606	296.241	295.870	295.498	295.121	294.744	294.356	294.002	293.654
180	295.220	295.220	295.220	295.220	295.220	295.220	295.220	295.220	295.220

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_207_BX_LO_35_G1S2_BL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	180.12	N.A.	9.00
0-30	327.66	N.A.	16.40
0-40	446.03	N.A.	22.30
0-60	560.67	N.A.	28.10
0-80	589.24	N.A.	29.50
0-90	592.15	N.A.	29.60
10-90	540.62	N.A.	27.10
20-40	265.92	N.A.	13.30
20-50	340.21	N.A.	17.00
40-70	134.58	N.A.	6.70
60-80	28.57	N.A.	1.40
70-80	8.62	N.A.	0.40
80-90	2.91	N.A.	0.10
90-110	136.61	N.A.	6.80
90-120	364.55	N.A.	18.20
90-130	652.96	N.A.	32.70
90-150	1140.08	N.A.	57.00
90-180	1406.33	N.A.	70.40
110-180	1269.72	N.A.	63.50
0-180	1998.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.53
10-20	128.59
20-30	147.55
30-40	118.37
40-50	74.29
50-60	40.34
60-70	19.95
70-80	8.62
80-90	2.91
90-100	24.54
100-110	112.07
110-120	227.94
120-130	288.41
130-140	271.32
140-150	215.81
150-160	150.55
160-170	87.26
170-180	28.45

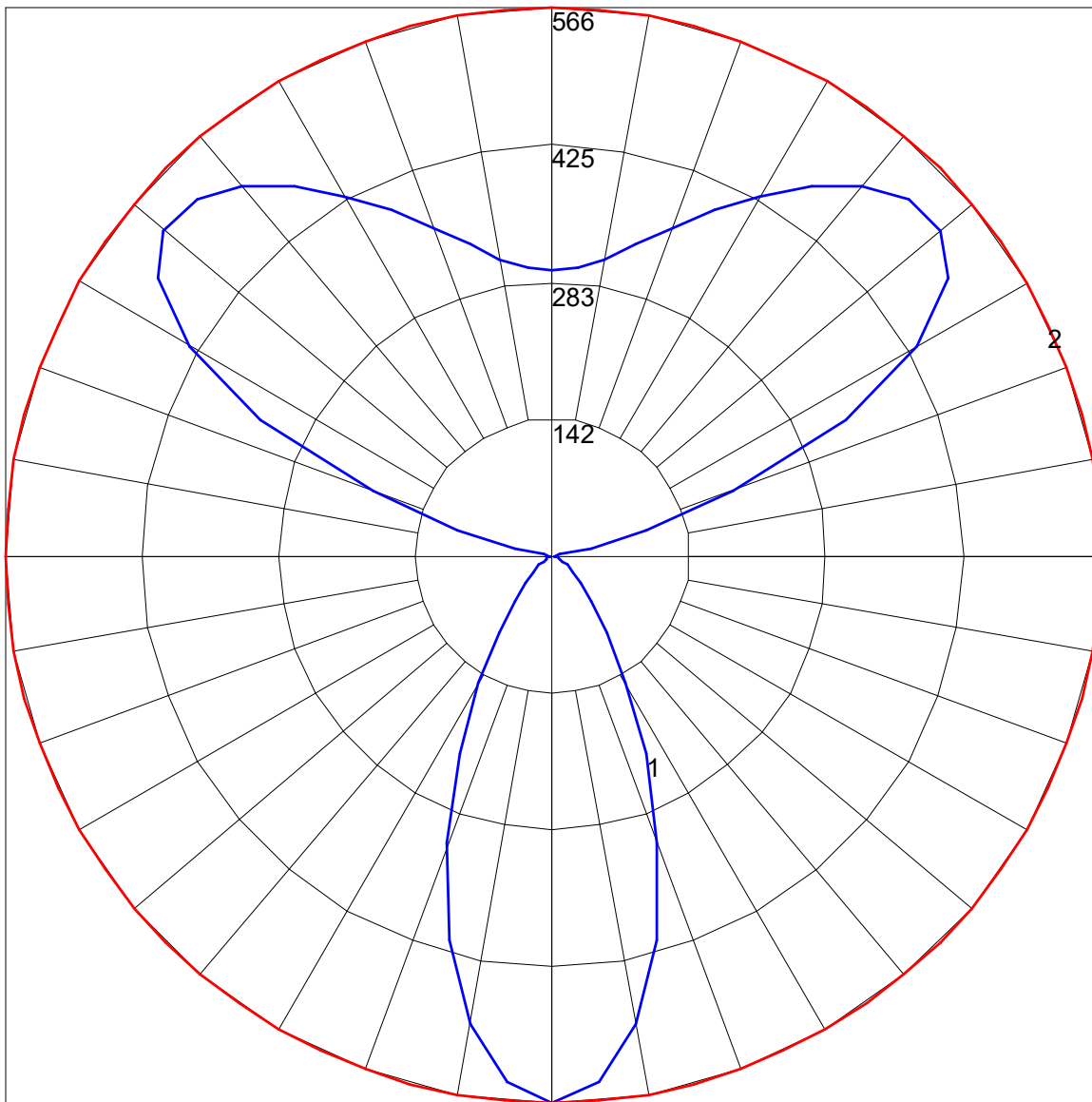
IES INDOOR REPORT
 PHOTOMETRIC FILENAME : VODE_207_BX_LO_35_G1S2_BL.IES

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	30
1	94	90	87	84	84	81	79	76	64	63	61	49	48	47	35	34	33	27
2	87	80	75	70	78	72	68	64	58	55	52	44	42	41	32	31	30	24
3	80	71	65	60	72	65	59	55	52	48	45	40	38	36	29	28	27	22
4	74	64	57	52	66	58	52	48	47	43	39	37	34	32	27	25	24	20
5	68	58	50	45	61	52	46	42	43	38	35	33	31	28	25	23	22	18
6	63	52	45	40	57	48	41	37	39	34	31	31	28	25	23	21	20	17
7	58	47	40	35	53	43	37	33	36	31	28	28	25	23	22	20	18	15
8	54	43	36	32	49	40	34	29	33	28	25	26	23	21	20	18	17	14
9	51	40	33	28	46	36	31	27	30	26	23	24	21	19	19	17	16	13
10	48	37	30	26	43	34	28	24	28	24	21	23	20	18	18	16	14	12

POLAR GRAPH



Maximum Candela = 566.01 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.)