

IES Report

BoxRail® | 207 | 85° Asymmetric, down | 80 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	46	48	49	49
Total Lumens, 4' rail length (1219mm)	660	681	695	695
Lumens per foot (305mm)	165	170	174	174
Input Power (W), 4' rail length (1219mm)	14.4	14.4	14.4	14.4
Watts per foot (305mm)	3.6	3.6	3.6	3.6
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_A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010910 (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-A1-BL

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

[MORE] 85° asymmetric 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	695
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	48
Total Luminaire Watts	14.38
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.78
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
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	8207	7979	6296
55	5341	5087	4344
65	2798	2846	3031
75	690	1218	2120
85	116	135	1044

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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	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814
5	415.877	415.570	415.268	412.409	410.153	407.369	404.080	400.322	396.111	391.488
10	477.723	477.079	474.544	471.563	467.689	462.944	457.365	450.051	442.140	433.666
15	519.141	518.010	514.970	511.508	506.821	499.856	492.252	484.085	475.438	465.311
20	537.909	536.285	533.496	529.888	523.746	517.244	509.907	500.453	491.219	478.024
25	536.256	534.319	532.457	527.469	522.186	515.260	507.187	499.606	485.564	471.447
30	514.280	512.123	509.942	505.551	500.523	494.520	487.844	476.980	464.052	449.784
35	475.774	473.953	471.273	468.089	462.538	456.744	450.271	438.068	426.596	412.032
40	425.407	424.021	421.422	417.739	413.047	406.679	397.520	387.631	375.324	361.236
45	366.966	366.003	363.579	360.174	355.209	348.539	339.445	330.461	317.045	304.106
50	302.696	301.606	299.756	296.815	292.674	286.474	278.632	268.430	256.818	243.055
55	237.643	236.820	236.072	233.931	230.567	225.568	218.440	209.165	199.004	187.450
60	176.970	176.494	175.914	174.760	172.556	168.902	163.206	157.603	148.358	139.183
65	120.089	120.280	121.023	120.878	119.602	117.520	114.695	110.217	104.609	98.072
70	70.592	71.015	72.413	73.103	73.938	73.596	72.790	71.537	68.272	64.902
75	27.614	29.017	31.494	32.718	34.638	36.383	37.694	39.736	39.249	37.787
80	4.182	7.059	6.044	7.308	8.050	8.880	9.959	12.255	13.421	15.643
85	4.182	4.176	4.095	3.961	3.822	3.613	3.329	3.103	3.138	3.584
90	4.704	4.715	4.617	4.524	4.379	4.182	3.985	3.747	3.451	3.115

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>	<u>95</u>
0	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814
5	386.489	381.147	375.509	369.611	363.498	357.216	350.813	344.346	337.844	330.942
10	424.693	415.292	405.756	393.431	381.083	368.509	355.801	343.012	330.310	316.848
15	452.928	437.941	422.704	407.311	391.836	373.358	354.670	336.000	317.672	298.352
20	462.869	446.902	430.656	409.364	388.356	367.726	344.166	320.821	298.323	274.555
25	458.368	440.011	418.946	399.347	374.761	350.297	325.322	298.416	272.896	245.891
30	433.115	414.694	394.847	371.902	350.488	323.315	298.143	268.575	241.245	213.985
35	395.264	378.183	356.282	334.596	311.077	286.079	260.101	231.652	203.464	178.895
40	345.744	326.952	307.539	287.558	264.637	241.181	211.909	188.541	170.891	146.235
45	287.483	270.309	251.140	231.722	213.788	195.680	174.615	154.738	135.447	114.782
50	227.070	206.445	191.330	180.090	167.614	151.287	134.862	119.086	103.020	87.087
55	174.012	162.162	151.270	139.774	126.649	113.471	100.497	87.777	76.525	65.204
60	130.303	119.938	110.734	101.227	91.681	82.517	73.567	63.945	55.813	49.868
65	91.559	84.001	77.645	71.102	64.322	57.896	52.212	48.181	39.962	34.504
70	60.314	56.086	52.896	48.853	43.488	39.440	35.479	31.506	27.857	24.273
75	36.302	34.353	32.799	30.085	26.819	24.476	22.440	19.778	17.696	15.817
80	16.327	16.298	15.706	15.028	13.955	12.621	11.815	10.678	9.483	8.642
85	4.025	3.967	3.706	4.222	4.623	4.217	4.141	3.851	3.405	3.318
90	2.819	2.482	2.140	1.850	1.554	1.264	1.067	0.829	0.974	0.731

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814
5	324.104	317.405	310.863	304.546	298.497	292.755	287.367	282.373	277.814	273.719
10	303.636	290.684	278.098	265.965	254.371	244.482	235.248	226.716	218.944	211.990
15	279.537	261.104	244.406	227.981	213.260	199.265	186.076	175.073	165.828	157.192
20	251.604	230.208	209.560	190.594	172.370	157.783	144.275	131.295	119.608	111.934
25	220.064	196.510	174.644	153.926	137.124	120.750	107.062	96.477	86.501	77.906
30	188.059	164.395	141.259	122.844	104.893	91.512	79.408	69.177	62.199	55.297
35	155.394	132.849	112.665	94.871	80.562	68.115	58.597	50.611	44.492	40.217

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CANDELA TABULATION - (Cont.)

40	124.079	104.093	87.470	72.343	60.772	51.249	43.268	37.874	33.135	30.119
45	96.686	80.492	66.671	55.483	45.895	38.785	33.356	28.704	26.036	23.449
50	73.364	61.352	50.628	42.230	35.490	30.050	25.990	23.275	20.921	19.343
55	55.088	46.348	38.837	32.347	27.492	23.855	21.077	18.925	17.307	16.037
60	41.621	34.870	29.574	25.172	21.698	19.053	17.139	15.503	14.146	13.091
65	30.224	25.920	22.295	19.331	17.000	15.150	13.543	12.302	11.420	10.707
70	21.564	18.717	16.315	14.390	12.882	11.507	10.312	9.309	8.532	7.969
75	13.943	12.400	11.014	9.837	8.781	7.615	6.676	6.015	5.620	5.301
80	7.842	7.140	6.015	5.133	4.443	3.950	3.550	3.312	3.306	3.294
85	3.103	2.268	1.897	1.873	1.665	1.601	1.601	1.630	1.612	1.583
90	0.679	0.777	0.777	0.731	0.829	0.829	0.829	0.876	0.922	0.974

Vert. Angles	Horizontal Angles						
	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	340.814	340.814	340.814	340.814	340.814	340.814	340.814
5	270.129	267.067	264.555	262.618	261.273	260.530	260.397
10	205.941	200.402	195.860	192.357	189.927	188.581	188.343
15	149.599	143.132	137.849	133.487	130.367	128.615	128.255
20	105.131	98.960	93.815	89.871	86.867	85.098	84.692
25	72.407	67.651	63.597	60.291	57.942	56.405	56.011
30	50.153	46.893	44.039	41.667	39.910	38.802	38.506
35	36.024	33.715	31.865	30.305	29.093	28.374	28.200
40	27.538	25.503	24.360	23.316	22.527	22.063	21.878
45	21.918	20.393	19.604	18.949	18.369	18.061	17.992
50	18.084	17.110	16.391	15.927	15.544	15.289	15.266
55	14.929	14.367	13.926	13.618	13.265	13.079	13.033
60	12.424	11.878	11.443	11.200	11.217	11.159	11.182
65	10.121	9.605	9.257	8.938	8.688	8.909	8.944
70	7.720	7.546	7.291	7.064	6.566	6.374	6.711
75	5.145	5.121	5.139	5.150	5.098	4.338	4.570
80	3.254	3.277	3.277	3.300	3.358	3.445	3.016
85	1.520	1.525	1.531	1.491	1.491	1.624	1.363
90	0.974	0.876	0.777	0.777	0.777	0.731	0.673

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	122.05	N.A.	17.60
0-30	252.49	N.A.	36.30
0-40	395.80	N.A.	56.90
0-60	614.70	N.A.	88.40
0-80	690.96	N.A.	99.40
0-90	695.24	N.A.	100.00
10-90	663.23	N.A.	95.40
20-40	273.74	N.A.	39.40
20-50	400.54	N.A.	57.60
40-70	273.28	N.A.	39.30
60-80	76.26	N.A.	11.00
70-80	21.88	N.A.	3.10
80-90	4.28	N.A.	0.60
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	695.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	32.01
10-20	90.04
20-30	130.44
30-40	143.30
40-50	126.80
50-60	92.11
60-70	54.38
70-80	21.88
80-90	4.28
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

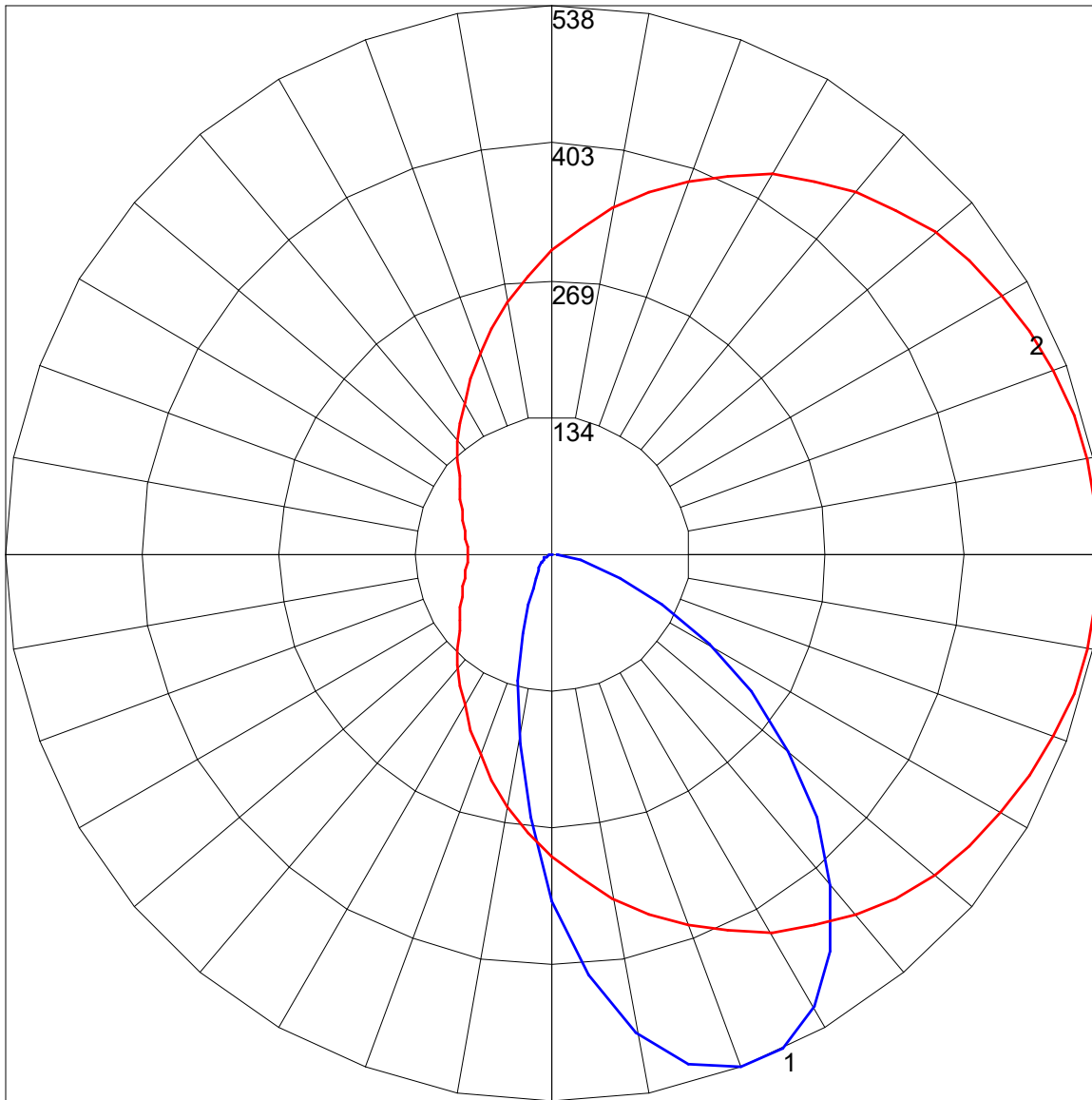
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	63	60	58
5	80	69	61	55	79	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	63	54	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	57	45	38	33	56	44	37	33	43	37	32	43	37	32	42	36	32	30

POLAR GRAPH



Maximum Candela = 537.909 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)