

## IES Report

# BoxRail® | 207 | 40° Symmetric, down | 80 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-S1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	34	35	36	36
Total Lumens, 4' rail length (1219mm)	479	494	504	504
Lumens per foot (305mm)	120	124	126	126
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\_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-LO-35-S1-BL

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

[MORE] 40° 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	504
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	14.38
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	616	1524	8160
55	290	721	4777
65	153	349	2726
75	76	157	1631
85	66	73	745

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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>
<b>0</b>	529.842	529.842	529.842	529.842	529.842	529.842	529.842	529.842	529.842	529.842
<b>5</b>	503.684	503.399	503.318	503.440	503.759	504.281	504.994	505.893	506.972	508.225
<b>10</b>	434.356	433.997	435.087	437.036	440.023	444.013	448.961	453.461	458.954	465.340
<b>15</b>	339.596	339.300	342.223	346.805	353.104	359.786	368.474	379.071	391.483	404.509
<b>20</b>	244.308	244.081	248.437	254.452	261.545	271.220	282.988	295.719	310.544	327.630
<b>25</b>	163.699	164.500	168.525	174.041	182.074	191.818	203.058	216.195	233.090	252.497
<b>30</b>	105.160	105.978	109.237	113.935	120.547	128.580	137.831	150.823	167.504	184.063
<b>35</b>	66.410	67.077	69.310	72.964	77.558	83.149	90.132	102.080	114.098	129.352
<b>40</b>	41.911	42.450	43.941	46.394	49.648	53.401	59.653	67.292	75.841	88.624
<b>45</b>	27.521	27.939	28.780	30.299	32.202	34.446	39.260	43.651	51.057	58.081
<b>50</b>	18.525	18.746	19.372	20.387	21.617	23.571	26.071	29.441	33.831	39.742
<b>55</b>	12.882	13.015	13.427	14.094	14.802	16.234	17.574	20.027	22.922	26.558
<b>60</b>	9.286	9.332	9.558	9.883	10.394	11.217	12.290	13.531	15.567	18.084
<b>65</b>	6.566	6.606	6.751	7.018	7.447	7.813	8.578	9.454	10.620	12.041
<b>70</b>	4.425	4.385	4.762	4.884	5.214	5.487	5.800	6.322	7.024	7.987
<b>75</b>	3.062	3.155	3.544	3.521	3.561	3.700	3.828	4.037	4.414	4.884
<b>80</b>	2.674	2.767	2.906	2.807	2.807	2.825	2.848	2.865	2.883	2.923
<b>85</b>	2.384	2.413	2.366	2.303	2.256	2.192	2.105	1.995	1.978	1.943
<b>90</b>	2.366	2.407	2.430	2.384	2.332	2.308	2.239	2.117	1.943	1.798

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>
<b>0</b>	529.842	529.842	529.842	529.842	529.842	529.842	529.842	529.842	529.842
<b>5</b>	509.640	511.212	512.917	514.750	516.699	518.746	520.846	523.061	525.318
<b>10</b>	472.572	480.594	489.184	492.014	495.181	498.667	502.442	506.439	510.783
<b>15</b>	416.701	427.344	439.083	451.826	466.163	470.589	475.641	481.145	487.444
<b>20</b>	345.773	364.692	384.360	399.336	415.593	433.707	439.640	446.409	454.581
<b>25</b>	273.522	294.884	317.393	341.301	360.093	379.163	394.040	400.792	409.706
<b>30</b>	204.740	227.789	250.896	275.918	301.409	320.520	341.011	346.666	355.157
<b>35</b>	147.877	167.904	189.776	211.839	237.069	258.715	277.408	286.955	295.162
<b>40</b>	101.802	119.468	137.170	156.710	177.480	195.941	209.798	221.548	233.125
<b>45</b>	69.565	81.473	95.804	113.262	130.129	145.864	158.879	168.913	175.560
<b>50</b>	46.313	55.274	65.952	77.882	90.753	102.683	112.508	119.793	123.929
<b>55</b>	31.523	37.224	44.074	52.473	61.497	69.629	76.519	81.821	84.158
<b>60</b>	21.187	24.737	29.365	35.061	41.186	47.026	51.690	54.108	55.570
<b>65</b>	14.077	16.553	19.656	23.125	26.744	30.311	33.449	35.148	35.931
<b>70</b>	9.245	10.852	12.824	14.952	17.081	19.256	21.199	22.272	22.852
<b>75</b>	5.620	6.560	7.772	9.042	10.283	11.507	12.545	13.212	13.613
<b>80</b>	3.155	3.457	3.973	4.576	5.249	5.870	6.484	6.780	6.757
<b>85</b>	1.815	1.659	1.775	1.943	2.030	2.024	2.314	2.511	2.430
<b>90</b>	1.630	1.462	1.340	1.166	1.067	0.922	0.777	0.876	0.922

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	160.72	N.A.	31.90
0-30	284.40	N.A.	56.40
0-40	381.45	N.A.	75.70
0-60	477.18	N.A.	94.70
0-80	501.46	N.A.	99.50
0-90	504.14	N.A.	100.00
10-90	456.70	N.A.	90.60
20-40	220.73	N.A.	43.80
20-50	282.45	N.A.	56.00
40-70	112.66	N.A.	22.30
60-80	24.29	N.A.	4.80
70-80	7.36	N.A.	1.50
80-90	2.68	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	504.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	47.44
10-20	113.28
20-30	123.69
30-40	97.04
40-50	61.72
50-60	34.01
60-70	16.93
70-80	7.36
80-90	2.68
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

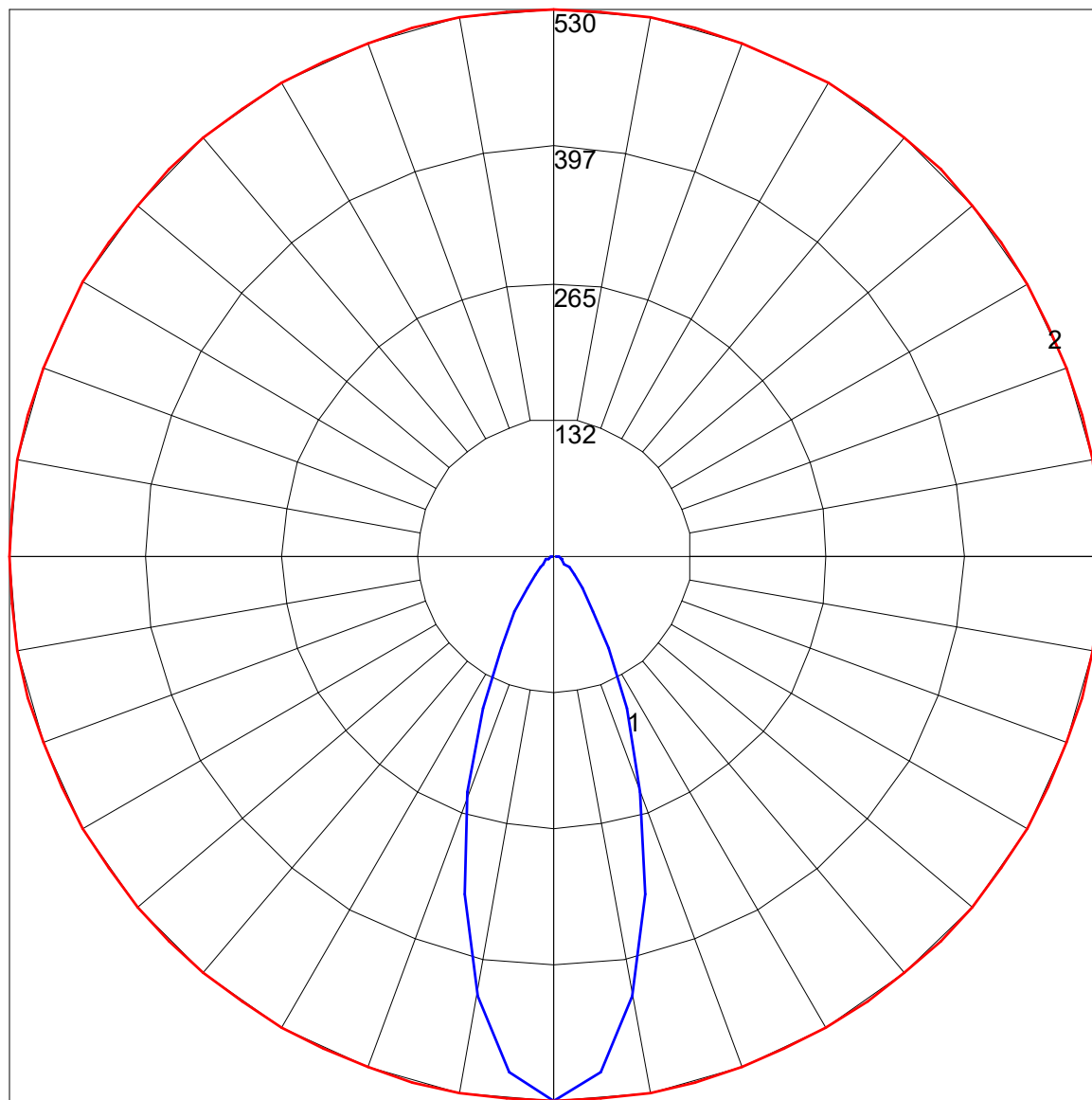
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 529.842 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.)