

## IES Report

# BoxRail® | 207 | Diffuse, down | 80 CRI | SO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-SO-35-D1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	67	69	70	70
Total Lumens, 4' rail length (1219mm)	1668	1721	1756	1756
Lumens per foot (305mm)	417	430	439	439
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\_D1\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010913 (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-D1-BL

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

[MORE] diffuse lens down, standard 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	1756
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	25.26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
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	9166	11001	19687
55	6961	8657	18783
65	4540	5887	17201
75	2142	2988	14570
85	287	534	9780

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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>	649.728	649.728	649.728	649.728	649.728	649.728	649.728	649.728	649.728	649.728
<b>5</b>	646.236	645.958	645.691	645.528	645.366	645.227	645.134	645.076	645.053	645.076
<b>10</b>	636.991	636.515	636.272	636.121	636.109	636.248	636.504	636.016	635.738	635.645
<b>15</b>	621.052	620.414	620.356	620.577	620.855	620.229	620.066	620.368	621.134	621.377
<b>20</b>	599.650	598.943	599.268	599.627	598.989	598.978	599.233	598.850	599.221	599.384
<b>25</b>	573.110	572.205	572.437	572.042	572.390	572.448	572.506	573.585	572.564	572.321
<b>30</b>	540.734	540.166	540.421	540.131	540.247	540.398	540.838	540.595	540.711	540.769
<b>35</b>	502.222	501.735	501.619	502.118	502.210	502.895	503.684	503.220	504.159	504.577
<b>40</b>	457.980	457.724	457.690	458.084	459.024	460.392	460.566	461.576	463.014	463.942
<b>45</b>	409.851	410.130	410.373	411.116	411.719	412.334	413.760	415.964	416.649	419.282
<b>50</b>	361.908	361.468	361.166	361.618	362.558	363.312	365.145	366.641	367.906	370.678
<b>55</b>	309.697	309.198	309.581	310.091	309.418	307.690	308.630	310.822	314.186	318.965
<b>60</b>	254.666	254.284	252.903	248.797	247.451	247.451	249.446	251.662	255.977	261.128
<b>65</b>	194.857	194.370	187.259	185.391	186.284	188.720	191.678	194.288	198.464	202.849
<b>70</b>	136.613	130.848	128.505	131.950	134.502	136.462	137.843	138.469	141.694	146.856
<b>75</b>	85.759	79.124	83.253	84.274	84.042	84.262	84.738	85.643	89.053	92.684
<b>80</b>	39.092	39.440	40.310	41.215	41.586	42.178	42.700	43.790	45.078	46.736
<b>85</b>	10.312	12.226	10.950	10.776	10.742	11.275	10.602	12.029	13.236	14.233
<b>90</b>	5.951	6.078	6.078	6.171	6.125	6.032	5.928	5.638	5.348	4.907

**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>	649.728	649.728	649.728	649.728	649.728	649.728	649.728	649.728	649.728
<b>5</b>	645.122	645.215	645.354	645.517	645.714	645.946	646.190	646.491	646.816
<b>10</b>	635.726	635.993	636.411	636.225	636.156	636.225	636.434	636.759	637.281
<b>15</b>	621.145	620.530	620.333	620.554	621.250	620.902	620.867	621.087	621.830
<b>20</b>	599.279	599.233	599.674	599.094	599.117	599.813	599.418	599.465	600.428
<b>25</b>	573.191	572.889	572.414	573.028	572.599	572.727	573.052	572.843	573.980
<b>30</b>	540.804	540.885	540.908	540.920	542.056	541.511	542.103	541.558	542.776
<b>35</b>	504.704	505.482	504.844	505.018	505.377	505.516	505.667	505.551	506.305
<b>40</b>	464.673	464.777	465.009	465.241	465.183	465.705	465.369	465.926	467.608
<b>45</b>	419.352	420.106	421.915	421.126	420.604	422.611	422.959	423.214	423.562
<b>50</b>	372.870	374.866	375.701	376.084	376.501	378.044	378.612	378.636	378.346
<b>55</b>	321.216	324.069	326.598	328.582	329.301	329.660	329.753	330.020	330.890
<b>60</b>	265.942	270.315	272.136	275.581	277.600	278.446	278.980	278.910	279.653
<b>65</b>	208.348	213.336	217.419	220.829	223.114	225.191	226.768	226.652	226.757
<b>70</b>	151.763	156.890	162.122	165.683	168.722	171.796	174.719	174.000	174.534
<b>75</b>	97.904	103.692	109.608	111.070	114.179	118.076	121.069	121.788	121.638
<b>80</b>	49.022	53.372	57.188	59.160	63.429	66.665	73.254	80.724	77.012
<b>85</b>	14.918	15.509	17.261	19.128	20.752	23.502	27.817	30.984	31.888
<b>90</b>	4.478	3.990	3.503	3.109	2.819	2.575	2.332	2.726	3.886

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	236.45	N.A.	13.50
0-30	500.31	N.A.	28.50
0-40	815.46	N.A.	46.40
0-60	1421.72	N.A.	81.00
0-80	1731.15	N.A.	98.60
0-90	1755.66	N.A.	100.00
10-90	1694.32	N.A.	96.50
20-40	579.01	N.A.	33.00
20-50	901.00	N.A.	51.30
40-70	810.37	N.A.	46.20
60-80	309.43	N.A.	17.60
70-80	105.32	N.A.	6.00
80-90	24.51	N.A.	1.40
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	1755.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	61.34
10-20	175.11
20-30	263.86
30-40	315.15
40-50	321.99
50-60	284.27
60-70	204.10
70-80	105.32
80-90	24.51
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

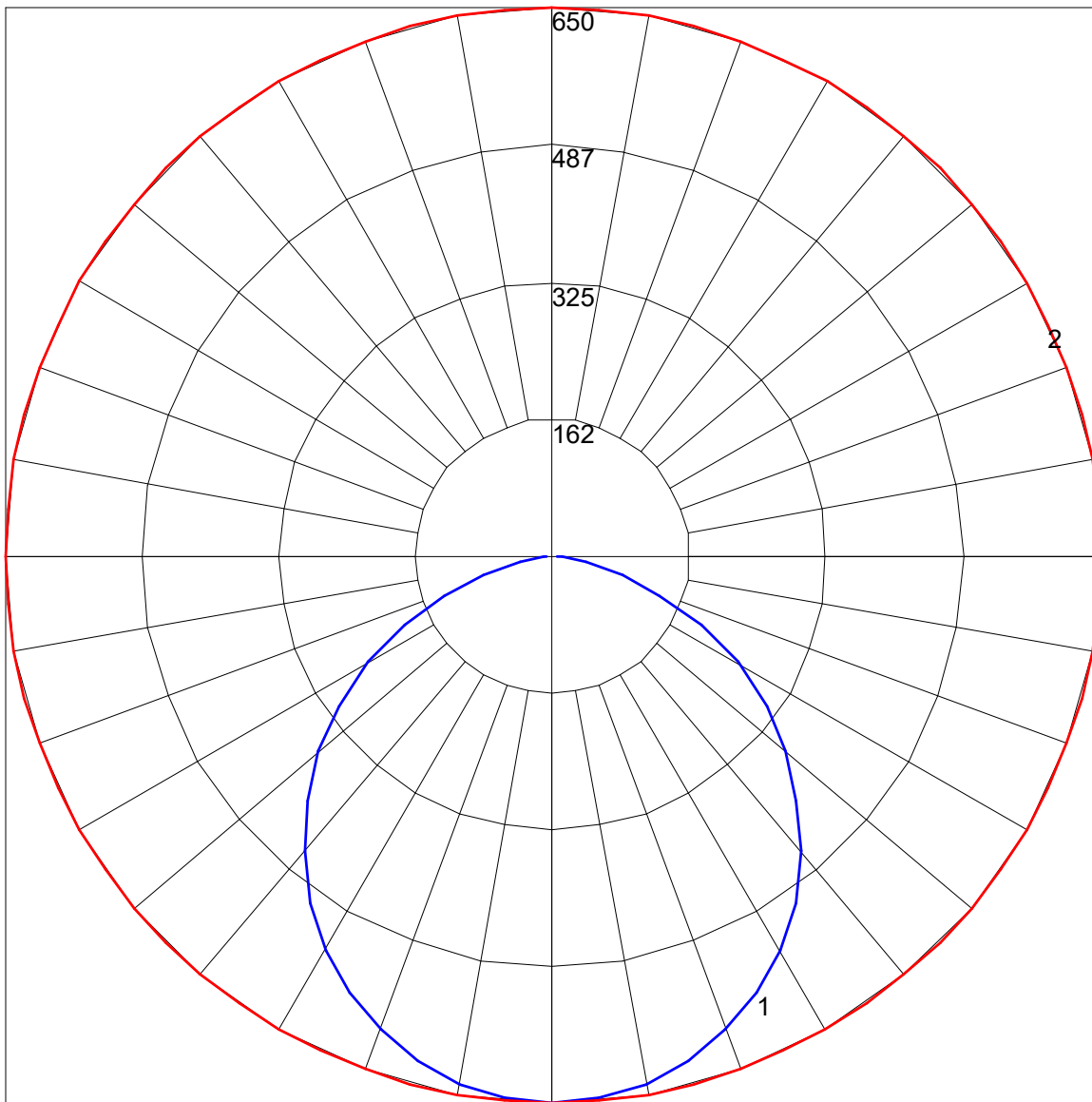
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 649.728 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.)