

IES Report

BoxRail® | 207 | 60° Symmetric, down | 80 CRI | SO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-SO-35-S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	45	46	47	47
Total Lumens, 4' rail length (1219mm)	1125	1161	1184	1184
Lumens per foot (305mm)	281	290	296	296
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_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-SO-35-S1-BL

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

[MORE] 40° symmetric 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	1008
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	40
Total Luminaire Watts	25.26
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	1231	3048	16320
55	579	1442	9555
65	306	699	5451
75	153	315	3261
85	133	146	1491

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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	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683
5	1007.367	1006.799	1006.636	1006.880	1007.518	1008.562	1009.989	1011.787	1013.944	1016.450
10	868.712	867.993	870.174	874.072	880.046	888.026	897.921	906.923	917.908	930.680
15	679.192	678.600	684.446	693.610	706.208	719.571	736.948	758.141	782.965	809.019
20	488.615	488.163	496.874	508.904	523.090	542.439	565.976	591.438	621.087	655.261
25	327.398	328.999	337.050	348.081	364.147	383.635	406.116	432.390	466.181	504.994
30	210.320	211.955	218.474	227.870	241.094	257.160	275.662	301.646	335.008	368.126
35	132.820	134.154	138.620	145.928	155.115	166.298	180.264	204.160	228.195	258.703
40	83.822	84.900	87.882	92.788	99.296	106.801	119.306	134.583	151.682	177.248
45	55.042	55.877	57.559	60.598	64.403	68.892	78.520	87.302	102.115	116.162
50	37.050	37.491	38.744	40.774	43.233	47.142	52.142	58.882	67.663	79.483
55	25.764	26.030	26.854	28.188	29.603	32.468	35.148	40.055	45.843	53.116
60	18.572	18.664	19.117	19.766	20.787	22.434	24.580	27.063	31.134	36.169
65	13.131	13.212	13.502	14.036	14.894	15.625	17.156	18.908	21.240	24.082
70	8.851	8.770	9.524	9.767	10.428	10.974	11.600	12.644	14.048	15.973
75	6.125	6.310	7.088	7.041	7.122	7.401	7.656	8.074	8.828	9.767
80	5.348	5.533	5.812	5.614	5.614	5.649	5.696	5.730	5.765	5.846
85	4.768	4.826	4.733	4.605	4.512	4.385	4.211	3.990	3.956	3.886
90	4.733	4.814	4.860	4.768	4.663	4.617	4.478	4.234	3.886	3.596

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	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683
5	1019.280	1022.424	1025.834	1029.500	1033.398	1037.492	1041.692	1046.123	1050.635
10	945.145	961.188	978.367	984.028	990.362	997.333	1004.885	1012.877	1021.566
15	833.402	854.688	878.166	903.652	932.327	941.178	951.281	962.290	974.887
20	691.546	729.385	768.720	798.672	831.186	867.413	879.280	892.817	909.162
25	547.044	589.767	634.787	682.602	720.186	758.327	788.081	801.583	819.412
30	409.480	455.578	501.793	551.835	602.817	641.039	682.022	693.332	710.314
35	295.754	335.808	379.552	423.678	474.138	517.430	554.816	573.910	590.324
40	203.603	238.937	274.340	313.420	354.960	391.883	419.595	443.097	466.250
45	139.130	162.945	191.609	226.525	260.258	291.728	317.759	337.827	351.120
50	92.626	110.548	131.904	155.765	181.505	205.366	225.017	239.586	247.857
55	63.046	74.449	88.148	104.945	122.995	139.258	153.039	163.641	168.316
60	42.375	49.474	58.731	70.122	82.372	94.053	103.379	108.216	111.140
65	28.153	33.106	39.312	46.249	53.488	60.622	66.897	70.296	71.862
70	18.490	21.704	25.648	29.905	34.162	38.512	42.398	44.544	45.704
75	11.240	13.120	15.544	18.084	20.567	23.014	25.091	26.425	27.225
80	6.310	6.914	7.946	9.152	10.498	11.739	12.969	13.560	13.514
85	3.631	3.318	3.550	3.886	4.060	4.048	4.628	5.023	4.860
90	3.260	2.923	2.680	2.332	2.134	1.844	1.554	1.752	1.844

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	321.44	N.A.	31.90
0-30	568.81	N.A.	56.40
0-40	762.89	N.A.	75.70
0-60	954.36	N.A.	94.70
0-80	1002.93	N.A.	99.50
0-90	1008.28	N.A.	100.00
10-90	913.40	N.A.	90.60
20-40	441.46	N.A.	43.80
20-50	564.90	N.A.	56.00
40-70	225.32	N.A.	22.30
60-80	48.57	N.A.	4.80
70-80	14.71	N.A.	1.50
80-90	5.35	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	1008.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.88
10-20	226.56
20-30	247.37
30-40	194.08
40-50	123.44
50-60	68.02
60-70	33.86
70-80	14.71
80-90	5.35
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

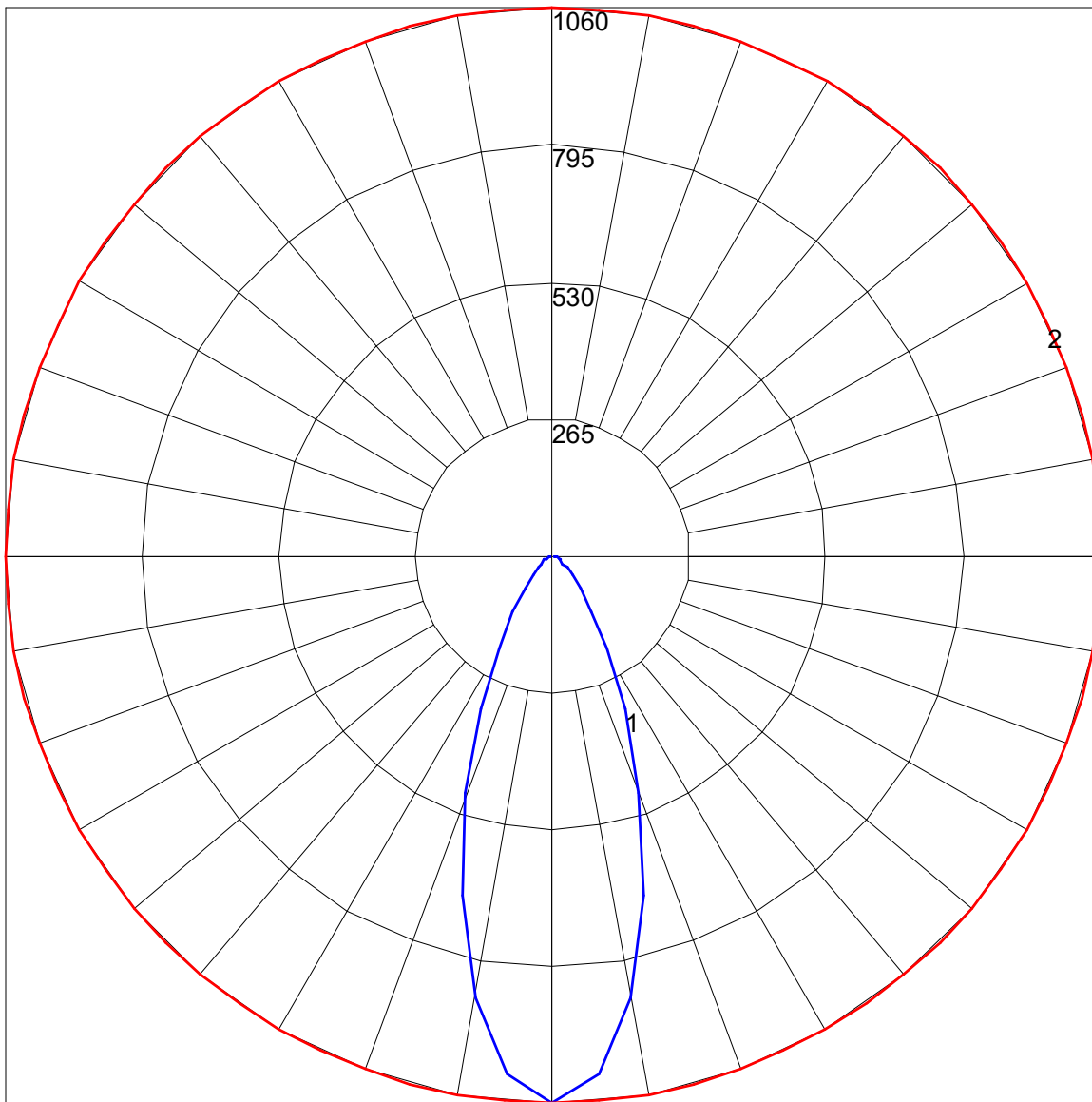
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1059.683 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.)