

## IES Report

**BoxRail® | 207 | 85° Asymmetric, down | 80 CRI | SO**

**207-BX-XX-4-48-XX-XX-XX-X-X-Z-SO-35-A1-X-BL-X**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	53	54	56	56
Total Lumens, 4' rail length (1219mm)	1321	1363	1390	1390
Lumens per foot (305mm)	330	341	348	348
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\_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-SO-35-A1-BL

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

[MORE] 85° asymmetric 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	1390
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	25.26
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	16414	15958	12591
55	10683	10175	8688
65	5597	5692	6063
75	1379	2436	4239
85	233	269	2088

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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>	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628
<b>5</b>	831.755	831.140	830.537	824.818	820.306	814.738	808.160	800.644	792.222	782.977
<b>10</b>	955.446	954.158	949.089	943.126	935.378	925.889	914.730	900.102	884.280	867.332
<b>15</b>	1038.281	1036.019	1029.941	1023.016	1013.643	999.711	984.504	968.171	950.875	930.622
<b>20</b>	1075.819	1072.571	1066.991	1059.776	1047.492	1034.488	1019.814	1000.906	982.439	956.049
<b>25</b>	1072.513	1068.638	1064.915	1054.939	1044.371	1030.521	1014.374	999.212	971.129	942.894
<b>30</b>	1028.560	1024.245	1019.884	1011.102	1001.045	989.039	975.688	953.961	928.104	899.568
<b>35</b>	951.548	947.906	942.546	936.178	925.077	913.488	900.543	876.136	853.192	824.064
<b>40</b>	850.814	848.041	842.844	835.478	826.094	813.357	795.041	775.263	750.648	722.471
<b>45</b>	733.932	732.006	727.158	720.348	710.419	697.079	678.890	660.922	634.091	608.211
<b>50</b>	605.392	603.212	599.511	593.630	585.348	572.947	557.264	536.860	513.636	486.110
<b>55</b>	475.287	473.640	472.143	467.863	461.135	451.136	436.879	418.331	398.008	374.900
<b>60</b>	353.939	352.988	351.828	349.520	345.112	337.804	326.412	315.207	296.716	278.365
<b>65</b>	240.178	240.561	242.046	241.756	239.204	235.039	229.390	220.435	209.218	196.144
<b>70</b>	141.184	142.030	144.826	146.206	147.877	147.192	145.580	143.074	136.544	129.804
<b>75</b>	55.228	58.035	62.988	65.436	69.275	72.767	75.388	79.472	78.497	75.574
<b>80</b>	8.364	14.117	12.087	14.616	16.101	17.760	19.917	24.511	26.842	31.285
<b>85</b>	8.364	8.352	8.190	7.923	7.644	7.227	6.658	6.206	6.276	7.169
<b>90</b>	9.408	9.431	9.234	9.048	8.758	8.364	7.969	7.494	6.902	6.229

**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>
<b>0</b>	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628
<b>5</b>	772.978	762.294	751.019	739.222	726.995	714.432	701.626	688.692	675.688	661.884
<b>10</b>	849.387	830.583	811.513	786.863	762.166	737.018	711.602	686.024	660.620	633.696
<b>15</b>	905.856	875.881	845.408	814.622	783.673	746.715	709.340	672.000	635.344	596.704
<b>20</b>	925.738	893.803	861.312	818.728	776.713	735.452	688.332	641.642	596.646	549.109
<b>25</b>	916.736	880.022	837.891	798.695	749.522	700.594	650.644	596.832	545.792	491.782
<b>30</b>	866.230	829.388	789.693	743.804	700.976	646.630	596.286	537.150	482.490	427.970
<b>35</b>	790.528	756.366	712.565	669.192	622.154	572.158	520.202	463.304	406.928	357.790
<b>40</b>	691.488	653.904	615.078	575.116	529.273	482.363	423.818	377.081	341.782	292.471
<b>45</b>	574.966	540.618	502.280	463.443	427.576	391.361	349.230	309.476	270.895	229.564
<b>50</b>	454.140	412.890	382.661	360.180	335.228	302.574	269.723	238.171	206.039	174.174
<b>55</b>	348.023	324.324	302.540	279.548	253.298	226.942	200.993	175.554	153.050	130.407
<b>60</b>	260.606	239.876	221.467	202.455	183.361	165.033	147.134	127.890	111.627	99.737
<b>65</b>	183.118	168.003	155.289	142.204	128.644	115.791	104.423	96.361	79.924	69.008
<b>70</b>	120.628	112.172	105.792	97.707	86.977	78.880	70.957	63.011	55.715	48.546
<b>75</b>	72.604	68.707	65.598	60.169	53.638	48.952	44.880	39.556	35.392	31.633
<b>80</b>	32.654	32.596	31.413	30.056	27.910	25.242	23.629	21.356	18.966	17.284
<b>85</b>	8.050	7.934	7.412	8.445	9.245	8.433	8.282	7.702	6.809	6.635
<b>90</b>	5.638	4.965	4.280	3.700	3.109	2.529	2.134	1.659	1.949	1.462

**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>
<b>0</b>	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628
<b>5</b>	648.208	634.810	621.725	609.093	596.994	585.510	574.734	564.746	555.628	547.439
<b>10</b>	607.272	581.369	556.197	531.930	508.741	488.963	470.496	453.432	437.888	423.980
<b>15</b>	559.074	522.209	488.812	455.961	426.520	398.530	372.151	350.146	331.656	314.383
<b>20</b>	503.208	460.416	419.120	381.188	344.740	315.566	288.550	262.589	239.215	223.868
<b>25</b>	440.127	393.020	349.288	307.852	274.247	241.500	214.124	192.954	173.002	155.811
<b>30</b>	376.118	328.790	282.518	245.688	209.786	183.025	158.816	138.353	124.398	110.594
<b>35</b>	310.787	265.698	225.330	189.741	161.124	136.230	117.195	101.222	88.984	80.434

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	248.159	208.185	174.940	144.687	121.545	102.498	86.536	75.748	66.271	60.239
<b>45</b>	193.372	160.985	133.342	110.966	91.791	77.569	66.712	57.408	52.072	46.899
<b>50</b>	146.728	122.705	101.256	84.460	70.980	60.100	51.980	46.551	41.841	38.686
<b>55</b>	110.177	92.696	77.674	64.693	54.984	47.711	42.154	37.851	34.614	32.074
<b>60</b>	83.242	69.739	59.148	50.344	43.396	38.106	34.278	31.007	28.292	26.181
<b>65</b>	60.448	51.840	44.590	38.663	34.000	30.299	27.086	24.604	22.840	21.414
<b>70</b>	43.129	37.433	32.631	28.780	25.764	23.014	20.625	18.618	17.064	15.938
<b>75</b>	27.886	24.801	22.028	19.674	17.562	15.231	13.352	12.029	11.240	10.602
<b>80</b>	15.683	14.280	12.029	10.266	8.886	7.900	7.099	6.624	6.612	6.589
<b>85</b>	6.206	4.536	3.793	3.747	3.329	3.202	3.202	3.260	3.225	3.167
<b>90</b>	1.357	1.554	1.554	1.462	1.659	1.659	1.659	1.752	1.844	1.949

**Vert. Angles**      **Horizontal Angles**

	<u><b>150</b></u>	<u><b>155</b></u>	<u><b>160</b></u>	<u><b>165</b></u>	<u><b>170</b></u>	<u><b>175</b></u>	<u><b>180</b></u>
<b>0</b>	681.628	681.628	681.628	681.628	681.628	681.628	681.628
<b>5</b>	540.258	534.134	529.111	525.236	522.545	521.060	520.794
<b>10</b>	411.881	400.803	391.720	384.714	379.854	377.162	376.687
<b>15</b>	299.199	286.265	275.697	266.974	260.733	257.230	256.511
<b>20</b>	210.262	197.919	187.630	179.742	173.733	170.195	169.383
<b>25</b>	144.814	135.302	127.194	120.582	115.884	112.810	112.021
<b>30</b>	100.305	93.786	88.079	83.334	79.820	77.604	77.012
<b>35</b>	72.048	67.431	63.730	60.610	58.186	56.747	56.399
<b>40</b>	55.077	51.005	48.720	46.632	45.054	44.126	43.755
<b>45</b>	43.836	40.786	39.208	37.897	36.737	36.122	35.983
<b>50</b>	36.169	34.220	32.782	31.854	31.088	30.578	30.531
<b>55</b>	29.858	28.733	27.852	27.237	26.529	26.158	26.065
<b>60</b>	24.847	23.757	22.887	22.400	22.434	22.318	22.365
<b>65</b>	20.242	19.210	18.514	17.876	17.377	17.818	17.887
<b>70</b>	15.440	15.092	14.581	14.129	13.131	12.748	13.421
<b>75</b>	10.289	10.243	10.278	10.301	10.196	8.677	9.141
<b>80</b>	6.508	6.554	6.554	6.600	6.716	6.890	6.032
<b>85</b>	3.039	3.051	3.062	2.981	2.981	3.248	2.726
<b>90</b>	1.949	1.752	1.554	1.554	1.554	1.462	1.346

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	244.10	N.A.	17.60
0-30	504.98	N.A.	36.30
0-40	791.59	N.A.	56.90
0-60	1229.4	N.A.	88.40
0-80	1381.92	N.A.	99.40
0-90	1390.47	N.A.	100.00
10-90	1326.46	N.A.	95.40
20-40	547.49	N.A.	39.40
20-50	801.08	N.A.	57.60
40-70	546.57	N.A.	39.30
60-80	152.52	N.A.	11.00
70-80	43.77	N.A.	3.10
80-90	8.55	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	1390.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	64.01
10-20	180.09
20-30	260.88
30-40	286.61
40-50	253.60
50-60	184.21
60-70	108.76
70-80	43.77
80-90	8.55
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

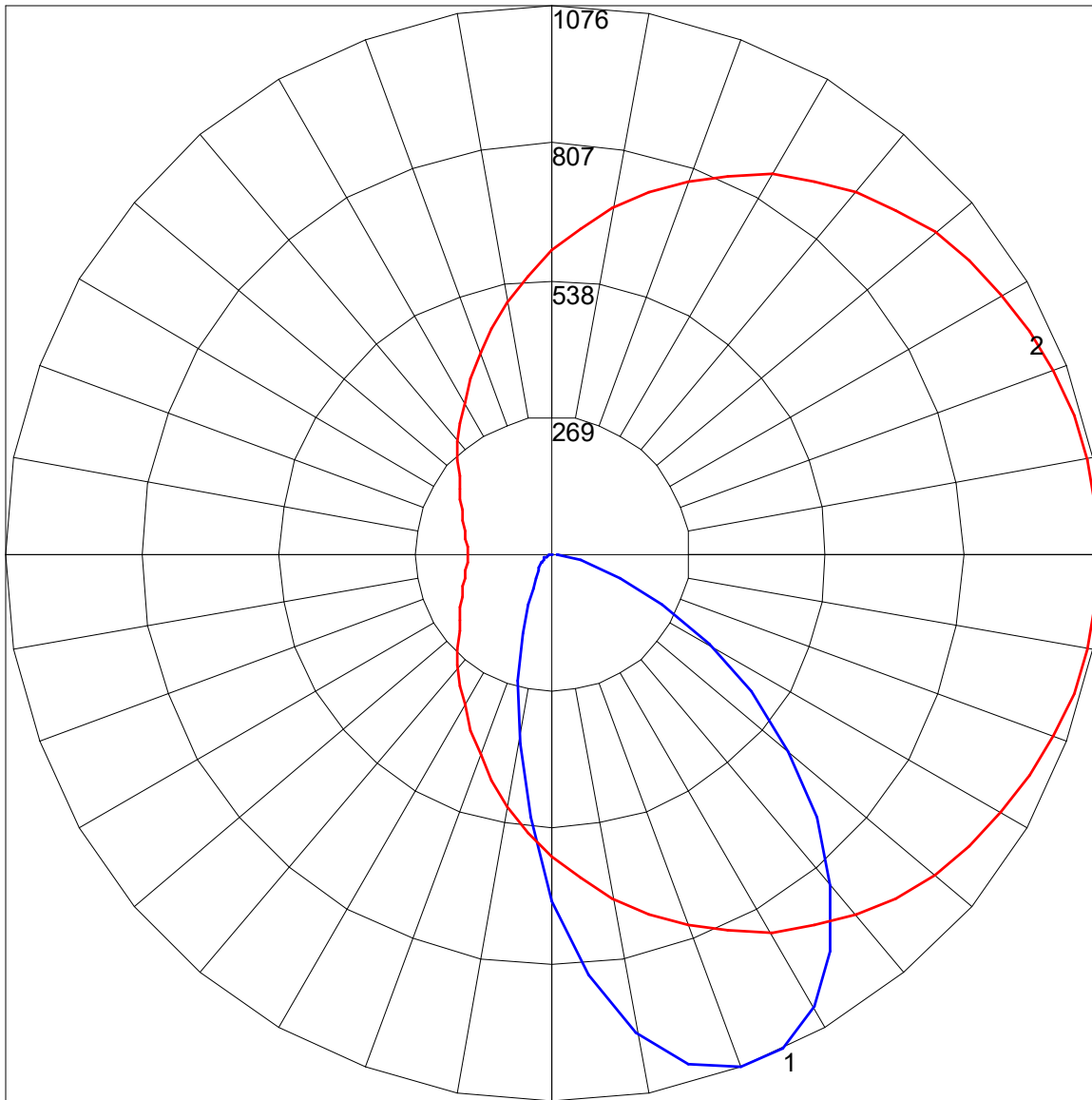
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1075.819 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.)