

IES Report

BoxRail® | 207 | Diffuse, down | 80 CRI | HO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-35-D1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	80	82	84	84
Total Lumens, 4' rail length (1219mm)	4075	4203	4289	4289
Lumens per foot (305mm)	1019	1051	1072	1072
Input Power (W), 4' rail length (1219mm)	51.6	51.6	51.6	51.6
Watts per foot (305mm)	12.9	12.9	12.9	12.9
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_HO_35_D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 (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-HO-35-D1

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

[MORE] diffuse lens down, high output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4281
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	51.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
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	22656	26660	47340
55	17388	21264	43444
65	11340	14948	41239
75	5334	7422	35278
85	908	1740	24318

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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	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674
5	1557.930	1557.270	1556.632	1556.170	1555.730	1555.356	1555.070	1554.850	1554.718	1554.674
10	1535.798	1534.478	1533.664	1533.136	1532.982	1533.180	1533.730	1532.476	1531.728	1531.464
15	1499.278	1497.584	1497.122	1497.320	1497.628	1495.868	1495.098	1495.318	1496.528	1496.572
20	1448.194	1445.994	1446.236	1446.610	1444.806	1444.696	1445.422	1444.718	1445.774	1445.642
25	1383.294	1381.600	1382.502	1380.918	1380.918	1380.478	1380.346	1382.810	1380.170	1379.136
30	1306.932	1305.194	1305.480	1304.358	1304.204	1304.138	1304.644	1303.654	1303.390	1302.708
35	1218.228	1216.754	1216.160	1216.842	1216.160	1216.644	1217.590	1215.280	1215.544	1215.346
40	1120.680	1119.536	1118.172	1117.754	1118.304	1118.898	1117.952	1118.590	1119.998	1120.196
45	1012.990	1012.836	1012.110	1011.824	1011.406	1012.176	1011.890	1013.980	1013.386	1016.136
50	897.732	896.500	896.104	896.346	897.072	897.996	898.524	900.702	900.416	901.670
55	773.608	772.508	773.806	774.356	770.792	765.820	768.790	772.508	777.854	783.508
60	638.814	637.384	633.974	624.338	621.412	622.996	628.298	636.702	643.852	653.466
65	486.662	486.090	470.404	465.432	469.216	472.560	482.350	489.896	501.864	515.086
70	337.304	325.138	321.508	325.644	333.630	336.424	339.438	344.520	355.432	368.566
75	213.554	200.970	212.300	213.796	212.388	211.706	211.068	212.212	221.474	230.252
80	114.334	116.292	118.844	118.844	118.558	118.514	118.668	119.504	125.356	123.574
85	32.648	43.032	40.634	40.986	41.492	42.020	41.118	43.340	44.990	46.354
90	15.158	15.312	15.114	14.938	14.476	14.102	13.552	12.826	12.078	11.154

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	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674
5	1554.696	1554.806	1555.004	1555.268	1555.620	1556.060	1556.478	1557.094	1557.732
10	1531.618	1532.234	1533.224	1532.542	1532.212	1532.256	1532.652	1533.312	1534.500
15	1495.824	1494.482	1494.086	1494.658	1496.330	1495.582	1495.670	1496.396	1498.354
20	1444.542	1443.420	1443.618	1441.836	1441.594	1443.002	1441.836	1441.770	1443.948
25	1380.478	1379.136	1377.112	1377.398	1376.210	1376.804	1377.530	1376.188	1378.124
30	1302.334	1302.444	1302.378	1300.860	1301.960	1300.904	1302.510	1300.904	1303.610
35	1215.192	1216.754	1215.918	1215.698	1215.258	1215.214	1215.676	1215.038	1216.380
40	1120.350	1120.768	1120.526	1119.602	1119.250	1121.120	1120.636	1119.976	1119.932
45	1014.816	1016.686	1017.698	1016.576	1017.148	1019.194	1019.128	1018.952	1018.512
50	902.990	906.202	907.258	907.082	906.400	907.038	907.456	907.236	906.400
55	781.220	781.352	790.174	791.538	785.400	779.042	773.124	768.108	765.314
60	658.702	664.972	667.766	668.888	667.458	667.634	669.240	670.054	671.264
65	525.602	534.908	538.846	540.760	542.938	543.884	543.466	542.520	543.642
70	383.724	398.926	408.430	412.698	415.250	416.724	417.868	417.120	418.066
75	243.232	259.138	273.218	281.204	288.156	292.644	290.774	290.312	294.514
80	126.830	135.894	148.918	155.144	175.296	178.706	178.750	177.342	175.934
85	46.992	48.070	52.976	54.648	57.024	61.974	70.070	77.286	79.288
90	10.318	9.218	8.492	7.744	6.908	6.182	5.808	5.346	5.346

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	569.82	N.A.	13.30
0-30	1205.48	N.A.	28.20
0-40	1966.12	N.A.	45.90
0-60	3443.47	N.A.	80.40
0-80	4212.46	N.A.	98.40
0-90	4280.7	N.A.	100.00
10-90	4132.89	N.A.	96.50
20-40	1396.3	N.A.	32.60
20-50	2178.96	N.A.	50.90
40-70	1982.63	N.A.	46.30
60-80	768.99	N.A.	18.00
70-80	263.71	N.A.	6.20
80-90	68.24	N.A.	1.60
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	4280.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.81
10-20	422.02
20-30	635.65
30-40	760.64
40-50	782.66
50-60	694.69
60-70	505.29
70-80	263.71
80-90	68.24
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

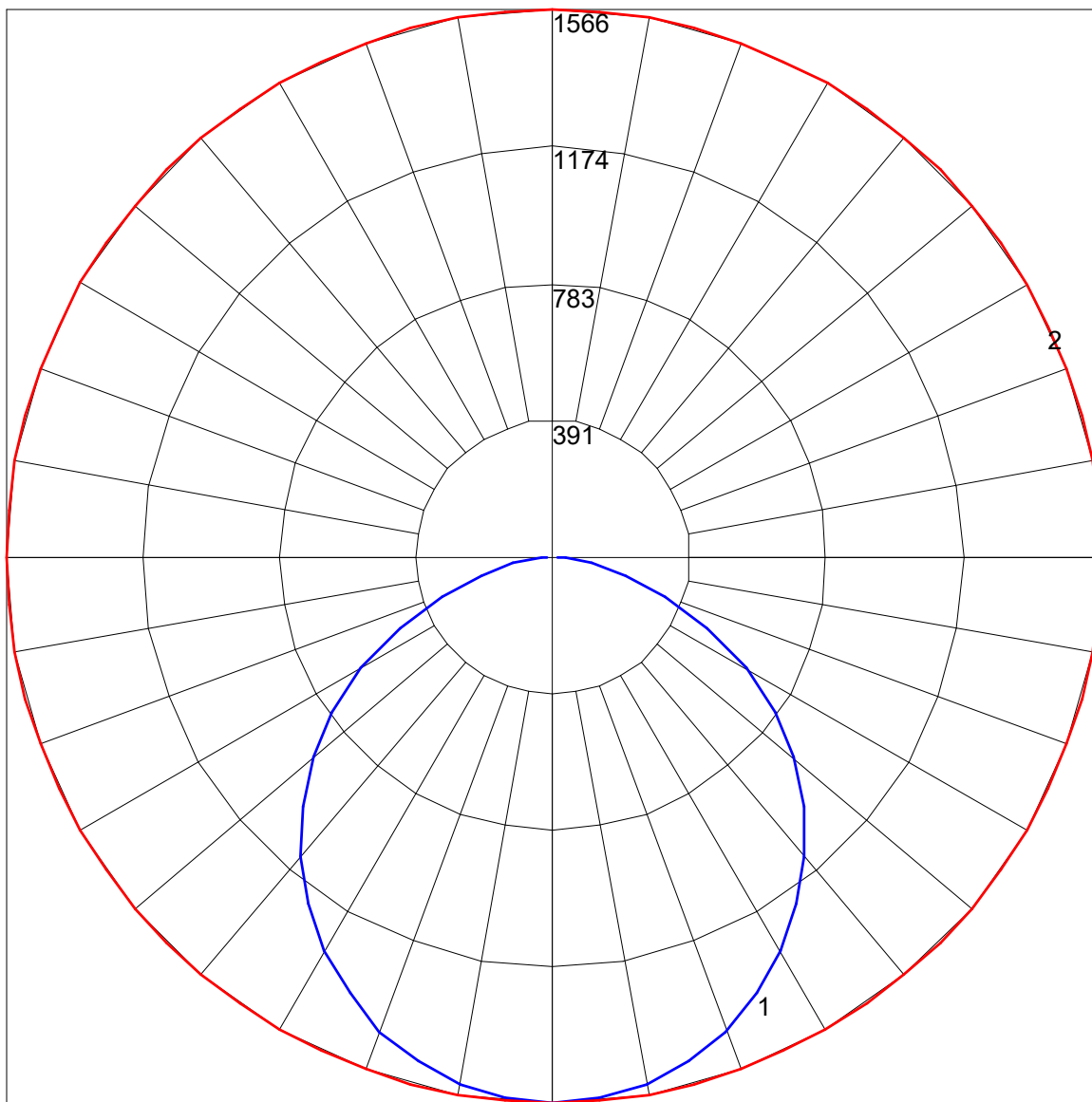
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1565.674 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.)