

IES Report

BoxRail® | 207 | 85° Asymmetric, down | 80 CRI | HO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-35-A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	49	51	52	52
Total Lumens, 4' rail length (1219mm)	2510	2589	2642	2642
Lumens per foot (305mm)	627	647	660	660
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_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-HO-35-A1-BL

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

[MORE] 85° asymmetric lens down, high 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	2637
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	51.57
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	31131	30264	23880
55	20261	19297	16477
65	10614	10796	11499
75	2616	4620	8040
85	441	510	3961

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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	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742
5	1577.466	1576.300	1575.156	1564.310	1555.752	1545.192	1532.718	1518.462	1502.490	1484.956
10	1812.052	1809.610	1799.996	1788.688	1773.992	1755.996	1734.832	1707.090	1677.082	1644.940
15	1969.154	1964.864	1953.336	1940.202	1922.426	1896.004	1867.162	1836.186	1803.384	1764.972
20	2040.346	2034.186	2023.604	2009.920	1986.622	1961.960	1934.130	1898.270	1863.246	1813.196
25	2034.076	2026.728	2019.666	2000.746	1980.704	1954.436	1923.812	1895.058	1841.796	1788.248
30	1950.718	1942.534	1934.262	1917.608	1898.534	1875.764	1850.442	1809.236	1760.198	1706.078
35	1804.660	1797.752	1787.588	1775.510	1754.456	1732.478	1707.926	1661.638	1618.122	1562.880
40	1613.612	1608.354	1598.498	1584.528	1566.730	1542.574	1507.836	1470.326	1423.642	1370.204
45	1391.940	1388.288	1379.092	1366.178	1347.346	1322.046	1287.550	1253.472	1202.586	1153.504
50	1148.158	1144.022	1137.004	1125.850	1110.142	1086.624	1056.880	1018.182	974.138	921.932
55	901.406	898.282	895.444	887.326	874.566	855.602	828.564	793.386	754.842	711.018
60	671.264	669.460	667.260	662.882	654.522	640.662	619.058	597.806	562.738	527.934
65	455.510	456.236	459.052	458.502	453.662	445.764	435.050	418.066	396.792	371.998
70	267.762	269.368	274.670	277.288	280.456	279.158	276.100	271.348	258.962	246.180
75	104.742	110.066	119.460	124.102	131.384	138.006	142.978	150.722	148.874	143.330
80	15.862	26.774	22.924	27.720	30.536	33.682	37.774	46.486	50.908	59.334
85	15.862	15.840	15.532	15.026	14.498	13.706	12.628	11.770	11.902	13.596
90	17.842	17.886	17.512	17.160	16.610	15.862	15.114	14.212	13.090	11.814

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>
0	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742
5	1465.992	1445.730	1424.346	1401.972	1378.784	1354.958	1330.670	1306.140	1281.478	1255.298
10	1610.906	1575.244	1539.076	1492.326	1445.488	1397.792	1349.590	1301.080	1252.900	1201.838
15	1718.002	1661.154	1603.360	1544.972	1486.276	1416.184	1345.300	1274.482	1204.962	1131.680
20	1755.710	1695.144	1633.522	1552.760	1473.076	1394.822	1305.458	1216.908	1131.570	1041.414
25	1738.638	1669.008	1589.104	1514.766	1421.508	1328.712	1233.980	1131.922	1035.122	932.690
30	1642.850	1572.978	1497.694	1410.662	1329.438	1226.368	1130.888	1018.732	915.068	811.668
35	1499.278	1434.488	1351.416	1269.158	1179.948	1085.128	986.590	878.680	771.760	678.568
40	1311.442	1240.162	1166.528	1090.738	1003.794	914.826	803.792	715.154	648.208	554.686
45	1090.452	1025.310	952.600	878.944	810.920	742.236	662.332	586.938	513.766	435.380
50	861.300	783.068	725.736	683.100	635.778	573.848	511.544	451.704	390.764	330.330
55	660.044	615.098	573.782	530.178	480.392	430.408	381.194	332.948	290.268	247.324
60	494.252	454.938	420.024	383.966	347.754	312.994	279.048	242.550	211.706	189.156
65	347.292	318.626	294.514	269.698	243.980	219.604	198.044	182.754	151.580	130.878
70	228.778	212.740	200.640	185.306	164.956	149.600	134.574	119.504	105.666	92.070
75	137.698	130.306	124.410	114.114	101.728	92.840	85.118	75.020	67.122	59.994
80	61.930	61.820	59.576	57.002	52.932	47.872	44.814	40.502	35.970	32.780
85	15.268	15.048	14.058	16.016	17.534	15.994	15.708	14.608	12.914	12.584
90	10.692	9.416	8.118	7.018	5.896	4.796	4.048	3.146	3.696	2.772

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>
0	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742
5	1229.360	1203.950	1179.134	1155.176	1132.230	1110.450	1090.012	1071.070	1053.778	1038.246
10	1151.722	1102.596	1054.856	1008.832	964.854	927.344	892.320	859.958	830.478	804.100
15	1060.312	990.396	927.058	864.754	808.918	755.832	705.804	664.070	629.002	596.244
20	954.360	873.202	794.882	722.942	653.818	598.488	547.250	498.014	453.684	424.578
25	834.724	745.382	662.442	583.858	520.124	458.018	406.098	365.948	328.108	295.504
30	713.328	623.568	535.810	465.960	397.870	347.116	301.202	262.394	235.928	209.748
35	589.424	503.910	427.350	359.854	305.580	258.368	222.266	191.972	168.762	152.548

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CANDELA TABULATION - (Cont.)

40	470.646	394.834	331.782	274.406	230.516	194.392	164.120	143.660	125.686	114.246
45	366.740	305.316	252.890	210.452	174.086	147.114	126.522	108.878	98.758	88.946
50	278.278	232.716	192.038	160.182	134.618	113.982	98.582	88.286	79.354	73.370
55	208.956	175.802	147.312	122.694	104.280	90.486	79.948	71.786	65.648	60.830
60	157.872	132.264	112.178	95.480	82.302	72.270	65.010	58.806	53.658	49.654
65	114.642	98.318	84.568	73.326	64.482	57.464	51.370	46.662	43.318	40.612
70	81.796	70.994	61.886	54.582	48.862	43.648	39.116	35.310	32.362	30.228
75	52.888	47.036	41.778	37.312	33.308	28.886	25.322	22.814	21.318	20.108
80	29.744	27.082	22.814	19.470	16.852	14.982	13.464	12.562	12.540	12.496
85	11.770	8.602	7.194	7.106	6.314	6.072	6.072	6.182	6.116	6.006
90	2.574	2.948	2.948	2.772	3.146	3.146	3.146	3.322	3.498	3.696

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742
5	1024.628	1013.012	1003.486	996.138	991.034	988.218	987.712
10	781.154	760.144	742.918	729.630	720.412	715.308	714.406
15	567.446	542.916	522.874	506.330	494.494	487.850	486.486
20	398.772	375.364	355.850	340.890	329.494	322.784	321.244
25	274.648	256.608	241.230	228.690	219.780	213.950	212.454
30	190.234	177.870	167.046	158.048	151.382	147.180	146.058
35	136.642	127.886	120.868	114.950	110.352	107.624	106.964
40	104.456	96.734	92.400	88.440	85.448	83.688	82.984
45	83.138	77.352	74.360	71.874	69.674	68.508	68.244
50	68.596	64.900	62.172	60.412	58.960	57.992	57.904
55	56.628	54.494	52.822	51.656	50.314	49.610	49.434
60	47.124	45.056	43.406	42.482	42.548	42.328	42.416
65	38.390	36.432	35.112	33.902	32.956	33.792	33.924
70	29.282	28.622	27.654	26.796	24.904	24.178	25.454
75	19.514	19.426	19.492	19.536	19.338	16.456	17.336
80	12.342	12.430	12.430	12.518	12.738	13.068	11.440
85	5.764	5.786	5.808	5.654	5.654	6.160	5.170
90	3.696	3.322	2.948	2.948	2.948	2.772	2.552

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	462.95	N.A.	17.60
0-30	957.73	N.A.	36.30
0-40	1501.29	N.A.	56.90
0-60	2331.62	N.A.	88.40
0-80	2620.89	N.A.	99.40
0-90	2637.11	N.A.	100.00
10-90	2515.7	N.A.	95.40
20-40	1038.34	N.A.	39.40
20-50	1519.3	N.A.	57.60
40-70	1036.59	N.A.	39.30
60-80	289.27	N.A.	11.00
70-80	83.01	N.A.	3.10
80-90	16.22	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	2637.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.41
10-20	341.55
20-30	494.77
30-40	543.57
40-50	480.96
50-60	349.37
60-70	206.26
70-80	83.01
80-90	16.22
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

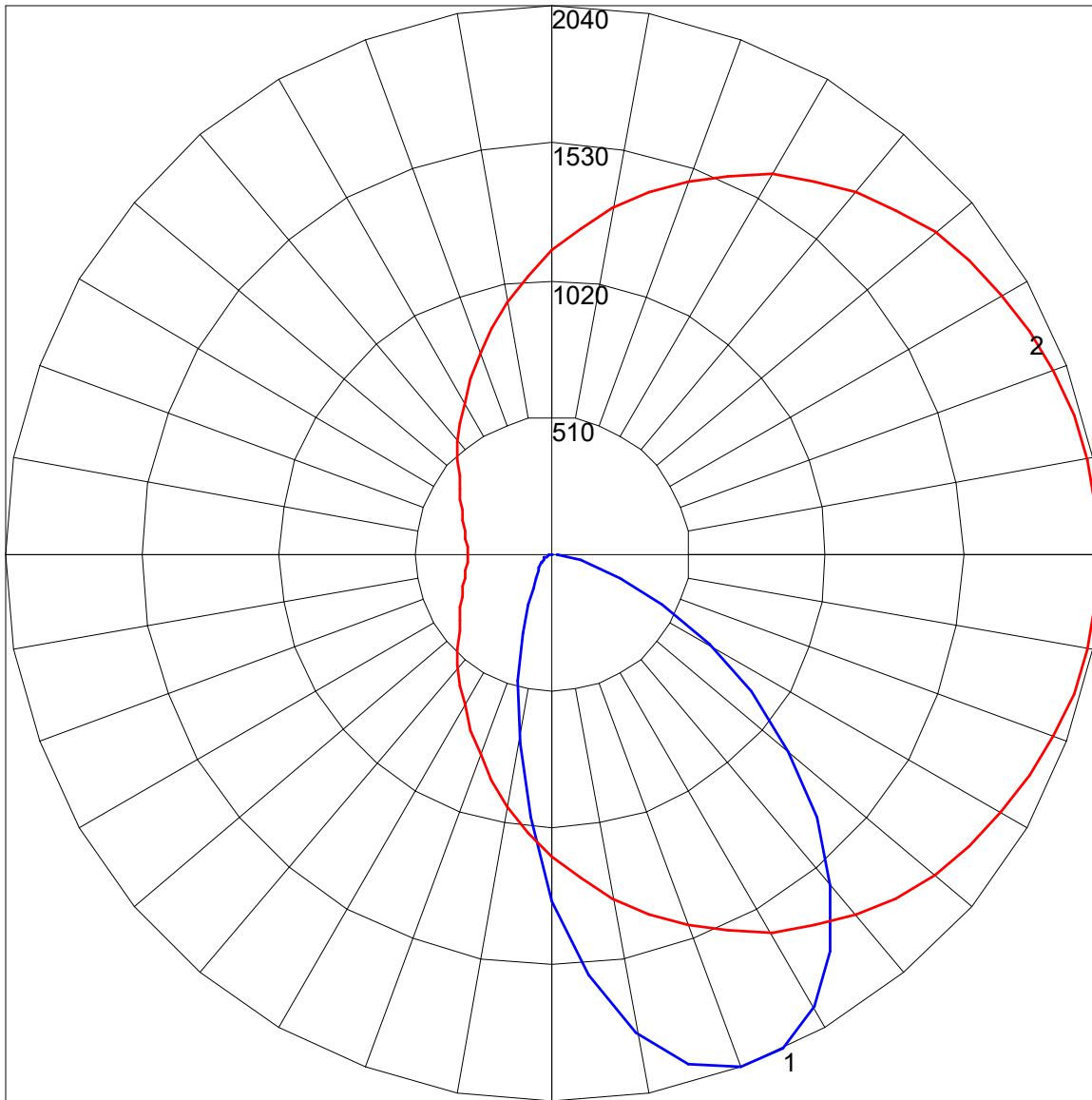
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	89	88
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	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	72	66	61	70	65	60	68	63	60	58
5	80	69	61	55	78	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	48	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 = 2040.346 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.)