

IES Report

BoxRail® | 207 | 120° Flywing, down | 80 CRI | HO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-35-G2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	117	121	123	123
Total Lumens, 4' rail length (1219mm)	6006	6196	6322	6322
Lumens per foot (305mm)	1502	1549	1581	1581
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_G2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022012001 (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-G2

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

[MORE] 120° flywing 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	6311
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	51.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.64
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.54
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	43059	44868	54618
55	31780	35551	51912
65	18289	22975	47032
75	5868	9364	35874
85	662	1096	13239

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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	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252
5	2028.180	2026.794	2025.364	2023.230	2021.228	2019.072	2016.806	2014.430	2011.966	2009.414
10	2103.794	2100.692	2095.808	2090.176	2083.488	2075.832	2067.186	2053.216	2038.938	2024.286
15	2205.016	2200.616	2192.608	2182.884	2169.398	2147.464	2123.946	2099.064	2073.016	2042.216
20	2296.492	2290.376	2279.992	2265.296	2239.798	2212.056	2180.640	2141.458	2101.154	2058.782
25	2346.278	2338.160	2328.106	2305.974	2280.234	2247.124	2208.536	2169.420	2112.506	2053.326
30	2332.462	2325.290	2314.774	2293.698	2268.046	2236.300	2199.780	2149.422	2089.956	2023.824
35	2252.976	2245.936	2234.672	2219.998	2197.074	2171.246	2139.610	2082.938	2026.442	1957.296
40	2115.036	2110.218	2099.944	2086.172	2070.046	2050.488	2014.254	1971.640	1921.414	1851.080
45	1925.264	1923.152	1915.606	1905.772	1893.100	1879.372	1848.176	1818.212	1763.498	1710.126
50	1689.776	1686.058	1680.954	1676.576	1672.374	1661.154	1642.058	1615.240	1574.342	1518.462
55	1413.896	1410.244	1410.684	1411.190	1406.108	1390.026	1383.426	1364.374	1342.946	1309.924
60	1120.504	1118.524	1114.300	1096.040	1091.596	1086.602	1085.194	1083.786	1072.588	1052.502
65	784.872	786.962	773.476	766.128	767.690	781.616	783.772	780.362	788.150	791.670
70	475.970	464.794	465.036	469.326	491.304	497.420	508.112	516.956	527.670	530.926
75	234.938	221.584	239.338	243.958	249.876	258.324	265.012	271.854	286.088	290.510
80	65.648	77.726	73.964	78.188	82.654	85.998	91.938	103.444	108.460	124.014
85	23.782	25.696	25.850	25.608	25.410	25.322	24.420	24.728	26.334	29.194
90	14.300	14.388	14.300	14.300	14.190	13.926	13.750	13.288	12.628	11.990

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	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252
5	2006.818	2004.200	2001.560	1998.920	1996.324	1993.750	1991.110	1988.800	1986.490
10	2009.392	1994.322	1979.494	1971.926	1964.908	1958.418	1952.478	1946.956	1942.424
15	2012.362	1986.182	1960.706	1936.110	1912.020	1900.734	1891.076	1882.452	1876.028
20	2012.956	1964.952	1918.950	1883.486	1850.156	1818.586	1804.528	1792.604	1784.574
25	1994.718	1932.370	1870.748	1812.338	1767.678	1728.034	1698.818	1683.748	1674.288
30	1951.664	1876.512	1802.108	1732.390	1668.480	1623.094	1582.988	1566.092	1556.082
35	1877.524	1797.928	1711.424	1632.070	1561.626	1506.384	1464.496	1442.034	1429.384
40	1775.070	1686.190	1598.300	1511.994	1439.526	1379.620	1339.118	1313.774	1300.860
45	1627.912	1548.536	1462.164	1378.256	1306.250	1250.194	1211.650	1186.812	1175.086
50	1454.376	1380.258	1301.960	1227.314	1159.950	1112.694	1078.220	1055.406	1045.440
55	1247.356	1183.600	1121.230	1057.188	1003.244	964.634	936.958	919.116	914.496
60	1018.380	973.632	918.016	864.952	822.624	792.286	772.706	758.648	755.920
65	775.104	740.300	705.716	677.402	655.754	639.056	629.442	623.590	620.004
70	529.210	524.920	512.842	495.748	481.382	470.602	465.784	462.990	460.306
75	300.168	309.870	315.106	309.628	303.710	301.906	295.768	294.976	299.486
80	124.278	132.352	142.538	158.906	165.836	165.352	161.700	160.886	161.370
85	31.394	32.560	34.232	37.180	38.126	40.128	39.930	40.766	43.164
90	10.978	10.142	9.218	8.294	7.568	6.732	5.896	6.094	5.896

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	770.40	N.A.	12.20
0-30	1705.62	N.A.	27.00
0-40	2888.41	N.A.	45.80
0-60	5223.04	N.A.	82.80
0-80	6258.26	N.A.	99.20
0-90	6310.73	N.A.	100.00
10-90	6118.54	N.A.	97.00
20-40	2118.01	N.A.	33.60
20-50	3364.49	N.A.	53.30
40-70	3061.21	N.A.	48.50
60-80	1035.22	N.A.	16.40
70-80	308.64	N.A.	4.90
80-90	52.47	N.A.	0.80
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	6310.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	192.20
10-20	578.21
20-30	935.22
30-40	1182.79
40-50	1246.48
50-60	1088.15
60-70	726.57
70-80	308.64
80-90	52.47
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

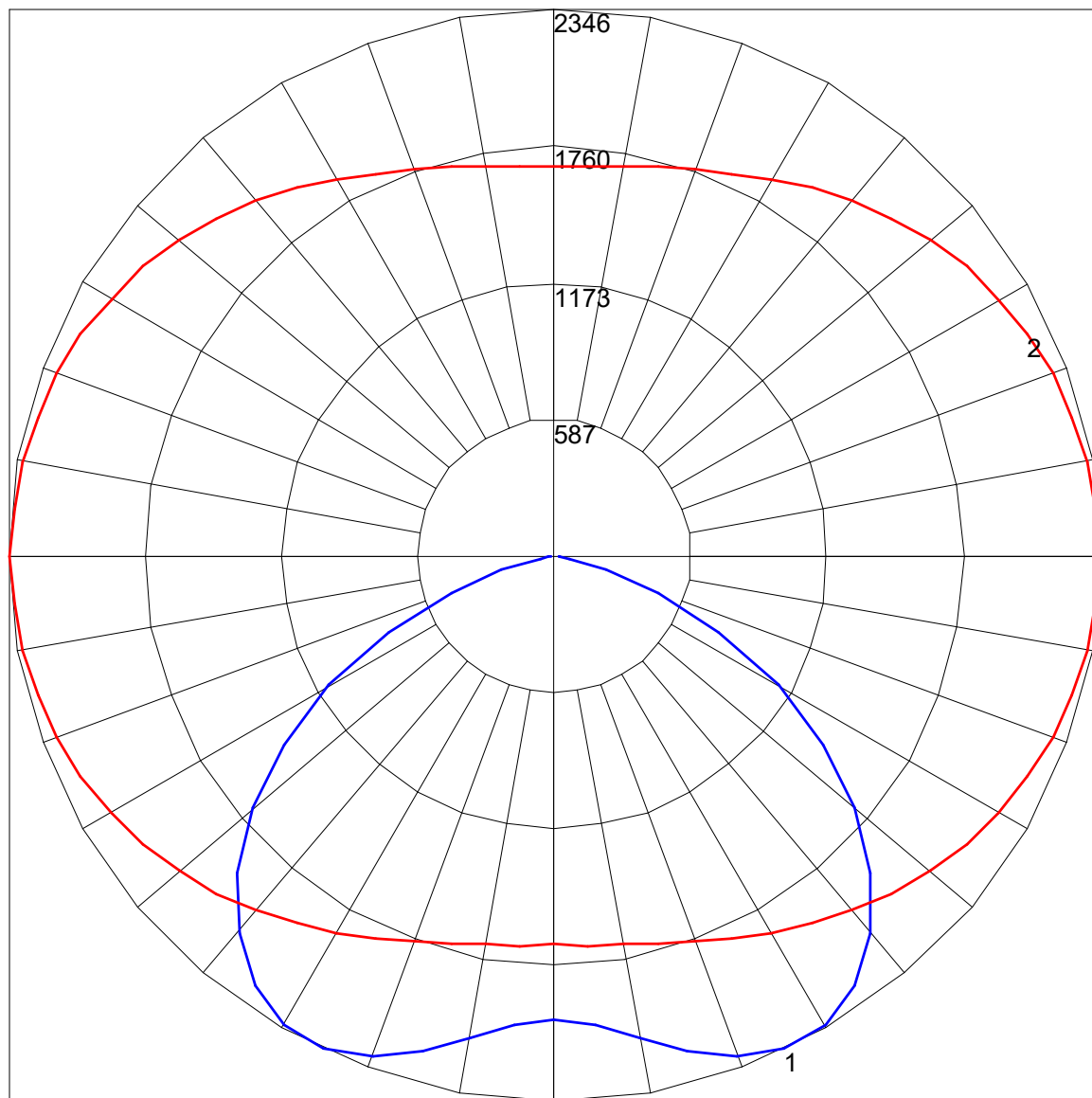
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 2346.278 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)