

IES Report

BoxRail® | 107 | 120° FlyWing™ | 80 CRI | HO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	118	122	125	125
Total Lumens, 4' rail length (1219mm)	5781	5964	6085	6085
Lumens per foot (305mm)	1445	1491	1521	1521
Input Power (W), 4' rail length (1219mm)	49.1	49.1	49.1	49.1
Watts per foot (305mm)	12.3	12.3	12.3	12.3
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_107_BX_HO_35_G2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911505 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB
[ISSUE DATE] 12/23/2019
[MANUFAC] Vode Lighting
[LUMCAT] 107-BX-48-Z-HO-35-G2-AL
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 120° flying lens,
[MORE] 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	6073
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.52
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	103316	91467	60401
55	97757	87563	57137
65	73077	72090	55358
75	41705	48119	48718
85	7705	14178	25984

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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	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208
5	2025.958	2024.484	2024.308	2022.548	2022.086	2020.062	2018.588	2016.366	2013.506	2011.306
10	2064.326	2063.116	2060.080	2057.220	2051.962	2044.680	2038.234	2029.742	2020.436	2010.184
15	2110.416	2108.304	2104.696	2097.524	2087.734	2075.480	2060.718	2044.218	2024.110	2004.750
20	2138.092	2136.244	2130.524	2121.856	2109.316	2092.728	2071.982	2048.376	2019.974	1989.812
25	2140.490	2139.192	2132.636	2122.318	2106.368	2088.284	2063.490	2033.328	1998.942	1958.836
30	2112.638	2112.352	2106.368	2095.126	2078.802	2056.934	2031.040	1997.754	1956.262	1909.600
35	2056.384	2054.536	2047.628	2035.638	2020.150	1998.568	1971.090	1935.054	1892.528	1839.420
40	1961.960	1960.024	1953.754	1943.062	1927.200	1906.564	1879.988	1844.128	1797.576	1743.984
45	1826.066	1824.944	1819.136	1811.018	1797.290	1779.030	1752.190	1717.804	1672.528	1616.648
50	1641.464	1640.452	1637.042	1630.574	1620.806	1606.330	1583.934	1552.474	1508.870	1455.762
55	1401.532	1401.070	1399.706	1398.584	1394.536	1385.582	1368.708	1343.826	1304.732	1255.386
60	1099.648	1100.396	1103.718	1107.304	1109.900	1109.438	1102.046	1086.470	1058.816	1019.436
65	771.958	773.146	777.766	784.410	792.154	798.512	801.086	797.214	784.036	761.530
70	481.316	482.702	487.410	494.604	503.448	513.502	521.158	525.404	524.018	516.274
75	269.808	270.534	273.482	278.564	285.098	292.666	299.860	305.932	309.628	311.300
80	113.960	114.620	116.556	119.878	124.564	130.284	136.466	142.560	148.544	153.802
85	16.786	16.786	17.050	17.336	18.172	19.096	20.658	23.056	26.554	30.888
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208
5	2009.634	2007.522	2005.036	2003.914	2002.902	2000.878	1999.690	1999.140	1998.304
10	2000.042	1990.472	1981.342	1973.136	1965.568	1958.836	1954.590	1951.642	1949.794
15	1984.554	1961.520	1941.412	1922.778	1905.266	1890.240	1880.362	1874.004	1870.682
20	1957.450	1920.754	1888.216	1853.632	1824.218	1799.050	1779.316	1767.040	1762.618
25	1914.308	1868.196	1818.674	1771.660	1727.858	1689.226	1659.900	1642.102	1634.094
30	1856.492	1798.478	1735.052	1674.288	1615.922	1566.136	1527.042	1503.326	1493.932
35	1777.732	1709.598	1637.966	1562.066	1493.096	1434.466	1387.980	1359.688	1349.348
40	1675.938	1600.346	1520.662	1438.602	1361.800	1294.304	1245.706	1215.280	1204.588
45	1546.952	1469.028	1386.880	1300.860	1223.398	1157.376	1107.678	1078.088	1067.572
50	1386.880	1310.078	1230.966	1150.468	1080.838	1019.524	975.634	948.244	939.224
55	1192.598	1123.914	1055.758	988.922	932.118	883.520	849.046	826.628	819.170
60	970.288	916.168	865.260	818.422	779.328	746.592	723.646	709.346	703.714
65	731.478	699.842	670.978	645.172	624.338	607.266	595.188	587.180	584.782
70	505.208	493.130	482.702	474.210	467.302	463.056	459.096	456.236	455.136
75	312.026	312.202	312.202	312.862	313.874	315.062	315.634	315.524	315.172
80	158.510	162.756	166.166	168.916	171.314	172.898	173.998	174.724	174.636
85	37.070	43.604	49.060	53.020	55.330	56.342	56.606	56.804	56.606
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	756.60	N.A.	12.50
0-30	1643.37	N.A.	27.10
0-40	2749.84	N.A.	45.30
0-60	4973.01	N.A.	81.90
0-80	6013.69	N.A.	99.00
0-90	6073.38	N.A.	100.00
10-90	5881.44	N.A.	96.80
20-40	1993.24	N.A.	32.80
20-50	3168.97	N.A.	52.20
40-70	2936.13	N.A.	48.30
60-80	1040.68	N.A.	17.10
70-80	327.72	N.A.	5.40
80-90	59.69	N.A.	1.00
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	6073.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	191.94
10-20	564.66
20-30	886.77
30-40	1106.47
40-50	1175.73
50-60	1047.45
60-70	712.95
70-80	327.72
80-90	59.69
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

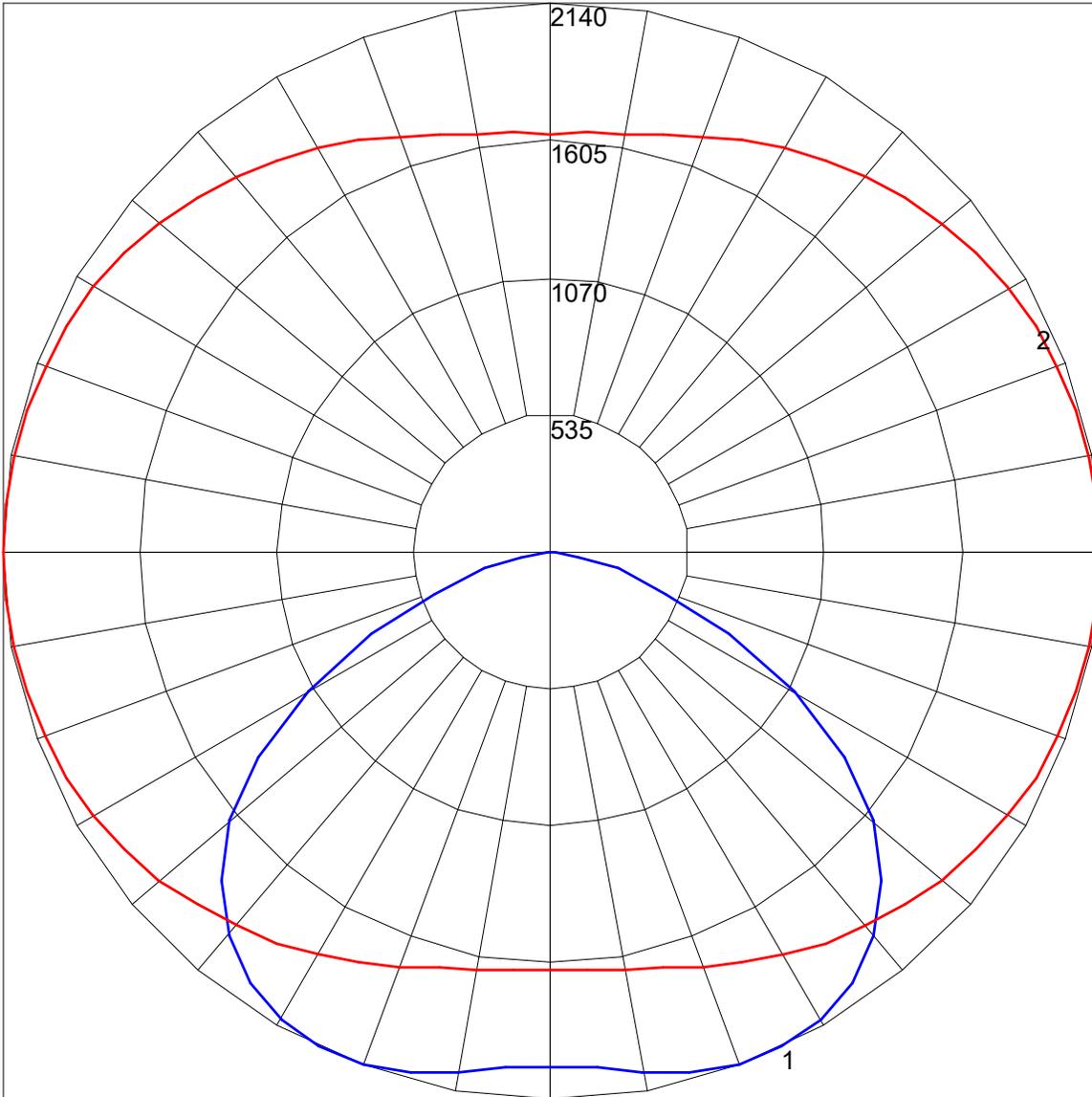
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	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	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	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	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 2140.49 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.)