

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	104	107	109	112
Total Lumens, 4' rail length (1219mm)	5092	5253	5360	5468
Lumens per foot (305mm)	1273	1313	1340	1367
Input Power (W), 4' rail length (1219mm)	49.2	49.2	49.2	49.2
Watts per foot (305mm)	12.4	12.4	12.4	12.4
CRI	85	85	85	85

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] L071704204 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 107-BX-48-Z-HO-35-G2
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° flywing lens, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5365
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	49.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.52
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	3.85 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	80592	70680	46089
55	76369	68010	43786
65	58500	56463	42447
75	32690	37716	37428
85	4786	9771	20885

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	1741.725	1741.725	1741.725	1741.725	1741.725	1741.725	1741.725	1741.725	1741.725	1741.725
5	1753.807	1753.515	1753.132	1752.300	1751.085	1749.780	1748.092	1746.428	1744.358	1742.400
10	1792.665	1792.193	1790.033	1786.770	1782.203	1776.037	1769.400	1761.638	1753.043	1744.088
15	1839.735	1838.340	1834.425	1828.148	1819.102	1807.875	1794.443	1778.918	1761.930	1743.615
20	1871.685	1870.110	1864.957	1856.565	1844.505	1829.182	1810.507	1788.368	1762.943	1735.200
25	1883.092	1881.112	1874.858	1864.777	1850.490	1831.793	1808.640	1781.820	1749.510	1713.915
30	1870.560	1868.332	1861.132	1850.017	1834.043	1812.938	1786.950	1755.945	1718.483	1674.675
35	1828.710	1826.370	1819.193	1807.695	1791.360	1769.310	1741.455	1707.660	1666.463	1618.717
40	1751.557	1749.510	1743.142	1732.410	1716.908	1695.510	1667.678	1632.735	1589.760	1538.753
45	1632.172	1630.575	1625.355	1616.557	1603.485	1584.158	1559.295	1525.770	1483.628	1431.428
50	1467.203	1466.168	1462.905	1457.010	1447.582	1433.182	1411.898	1381.815	1342.868	1291.770
55	1254.578	1254.307	1253.182	1250.753	1245.892	1236.555	1221.412	1197.315	1163.138	1117.260
60	995.063	995.715	997.582	999.450	1000.013	997.222	989.280	972.923	946.778	909.878
65	708.097	709.222	712.665	717.525	722.385	726.030	726.120	719.955	705.847	683.438
70	443.925	445.230	448.965	454.928	462.038	469.147	474.548	476.527	472.882	464.288
75	242.325	243.450	246.532	251.280	257.558	264.465	271.103	276.413	279.045	279.585
80	95.108	95.760	97.987	101.543	106.403	112.657	119.205	125.730	131.445	136.755
85	11.947	12.150	12.330	12.623	13.072	13.725	14.940	16.920	19.890	24.390
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
 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	1741.725	1741.725	1741.725	1741.725	1741.725	1741.725	1741.725	1741.725	1741.725
5	1740.622	1738.575	1736.618	1734.840	1733.422	1732.320	1731.285	1730.813	1730.632
10	1735.020	1726.043	1717.740	1709.527	1702.890	1696.905	1692.900	1690.267	1689.142
15	1724.175	1704.668	1685.610	1667.295	1651.590	1638.247	1628.348	1622.182	1620.023
20	1704.757	1673.168	1641.600	1610.595	1583.505	1560.060	1542.217	1531.553	1527.727
25	1673.280	1630.395	1585.935	1541.362	1502.415	1467.382	1441.125	1424.497	1418.985
30	1625.828	1572.570	1516.882	1459.733	1408.432	1362.938	1328.108	1306.328	1299.037
35	1561.545	1499.895	1433.475	1365.007	1303.807	1249.628	1208.993	1183.388	1174.793
40	1477.283	1408.342	1334.925	1258.875	1191.150	1132.493	1088.392	1061.122	1051.875
45	1367.145	1295.685	1218.983	1141.178	1073.160	1013.197	969.278	942.480	933.413
50	1228.793	1158.840	1085.783	1012.072	949.028	895.770	854.572	830.655	822.240
55	1060.830	997.965	933.795	871.942	820.485	777.420	745.380	725.760	719.303
60	864.293	815.153	767.790	723.893	687.825	658.125	635.985	622.800	618.232
65	654.278	624.015	596.183	571.342	551.722	535.365	523.418	516.128	513.788
70	452.228	440.460	429.705	420.277	413.550	408.240	404.303	401.310	400.185
75	279.315	278.572	278.100	277.830	278.010	278.100	278.280	278.010	277.447
80	141.255	144.787	147.780	149.940	151.718	153.113	154.148	154.800	154.890
85	30.825	37.733	43.447	47.633	49.792	51.008	51.660	52.042	52.133
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	657.35	N.A.	12.30
0-30	1432.89	N.A.	26.70
0-40	2407.29	N.A.	44.90
0-60	4380.22	N.A.	81.60
0-80	5313.31	N.A.	99.00
0-90	5365.04	N.A.	100.00
10-90	5198.72	N.A.	96.90
20-40	1749.94	N.A.	32.60
20-50	2791.2	N.A.	52.00
40-70	2612.81	N.A.	48.70
60-80	933.10	N.A.	17.40
70-80	293.22	N.A.	5.50
80-90	51.73	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	5365.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	166.32
10-20	491.03
20-30	775.54
30-40	974.40
40-50	1041.25
50-60	931.67
60-70	639.88
70-80	293.22
80-90	51.73
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

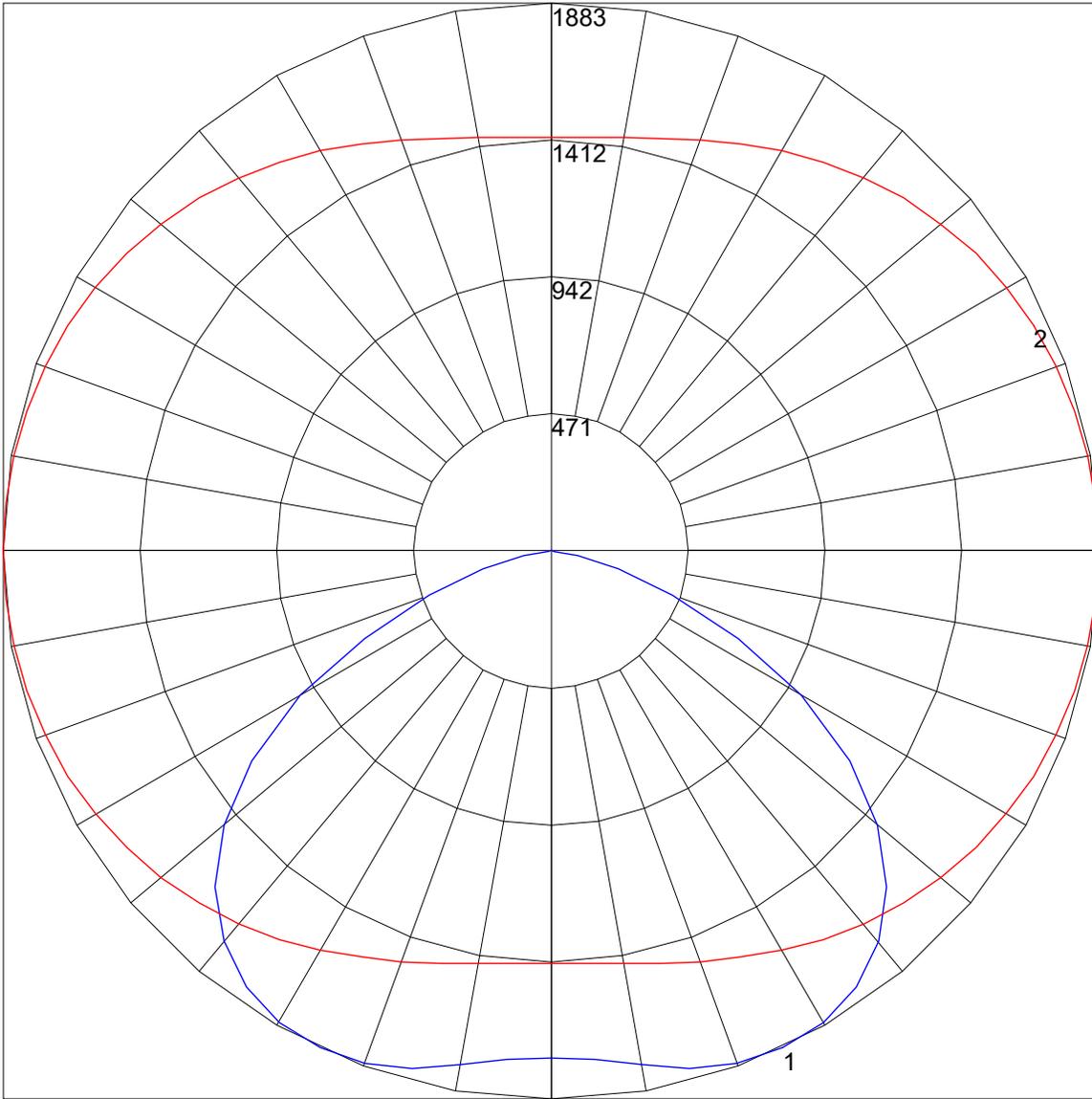
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	99	91	85	79	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	51	43	37	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	32	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1883.092 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)