

IES Report

BoxRail® | 107 | Black Baffle | 90 CRI | HO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-BB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	33	34	34	35
Total Lumens, 4' rail length (1219mm)	1576	1626	1659	1675
Lumens per foot (305mm)	394	406	415	419
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	94	94	94	94

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_359_BB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911508 (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-359-BB-AL
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, black baffle,
[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	1658
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	34
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.86
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	2262	5546	2433
55	2411	1645	1111
65	2412	950	513
75	2388	1072	270
85	2852	1901	148

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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	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184
5	1889.208	1888.258	1884.591	1879.727	1873.210	1864.679	1855.597	1844.691	1834.184	1823.905
10	1873.134	1867.947	1852.899	1829.966	1800.269	1769.679	1740.210	1711.159	1683.438	1658.282
15	1838.250	1827.344	1793.486	1747.069	1697.061	1649.200	1602.365	1554.352	1505.541	1461.499
20	1789.344	1769.527	1712.109	1645.932	1577.931	1509.208	1439.117	1371.686	1308.606	1253.829
25	1726.435	1695.142	1615.988	1532.939	1441.359	1350.653	1266.008	1186.683	1112.393	1041.675
30	1648.554	1603.733	1504.591	1403.131	1289.663	1184.707	1090.410	994.460	891.328	793.535
35	1554.751	1496.858	1379.001	1256.679	1127.992	1014.524	898.662	772.046	642.637	546.212
40	930.905	918.973	917.852	914.584	884.564	803.814	659.034	541.500	410.514	273.144
45	39.976	41.648	45.144	52.554	86.488	139.669	215.878	237.234	143.412	98.021
50	35.834	35.207	33.440	31.464	29.792	28.994	30.571	36.480	45.391	51.604
55	34.561	33.440	30.666	27.626	24.282	21.508	19.589	19.266	20.539	23.579
60	33.288	31.616	28.272	24.605	20.862	17.670	15.618	14.250	13.547	13.699
65	25.479	24.529	22.382	19.988	17.366	15.048	13.376	11.951	10.830	10.032
70	19.912	19.190	17.670	16.093	14.250	12.749	11.305	10.203	9.082	8.208
75	15.447	15.048	14.022	12.977	11.875	10.754	9.633	8.607	7.638	6.935
80	12.426	12.027	11.153	10.355	9.633	8.683	7.885	7.087	6.213	5.567
85	6.213	6.213	5.966	5.814	5.662	5.491	5.263	5.016	4.617	4.142
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	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184
5	1813.569	1804.563	1796.431	1788.869	1782.979	1778.210	1774.543	1772.700	1771.997
10	1633.753	1611.371	1590.984	1573.067	1557.696	1545.669	1536.758	1531.495	1529.899
15	1421.124	1383.865	1352.173	1324.775	1302.640	1285.350	1273.323	1266.084	1263.291
20	1204.049	1157.784	1116.212	1078.953	1046.767	1020.186	1000.103	988.171	983.953
25	969.931	900.657	838.698	785.023	741.380	707.769	683.962	669.636	664.772
30	702.050	623.447	556.795	494.038	439.337	393.794	359.936	339.644	332.234
35	441.256	336.452	243.124	173.280	134.824	114.513	104.329	99.218	97.622
40	159.904	112.043	95.000	85.614	78.603	73.017	69.046	66.576	65.778
45	84.816	75.012	66.253	59.090	53.428	49.134	45.942	43.795	42.997
50	52.003	48.260	43.320	38.551	34.637	31.464	28.994	27.474	26.752
55	26.448	27.398	26.049	23.731	21.508	19.361	17.594	16.397	15.922
60	14.250	14.896	14.972	14.250	13.053	11.875	10.754	9.804	9.234
65	9.633	9.405	9.234	8.759	8.208	7.410	6.536	5.814	5.415
70	7.562	6.935	6.460	5.890	5.339	4.693	4.142	3.496	3.192
75	6.061	5.415	4.864	4.294	3.743	3.192	2.622	2.223	1.748
80	4.864	4.218	3.743	3.192	2.793	2.223	1.824	1.273	0.950
85	3.819	3.268	2.717	2.394	1.919	1.596	1.197	0.722	0.323
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	589.92	N.A.	35.60
0-30	1091.17	N.A.	65.80
0-40	1491.89	N.A.	90.00
0-60	1633.5	N.A.	98.50
0-80	1654.54	N.A.	99.80
0-90	1658.29	N.A.	100.00
10-90	1488.45	N.A.	89.80
20-40	901.97	N.A.	54.40
20-50	1021.12	N.A.	61.60
40-70	154.42	N.A.	9.30
60-80	21.05	N.A.	1.30
70-80	8.24	N.A.	0.50
80-90	3.75	N.A.	0.20
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	1658.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	169.83
10-20	420.09
20-30	501.24
30-40	400.72
40-50	119.15
50-60	22.45
60-70	12.81
70-80	8.24
80-90	3.75
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

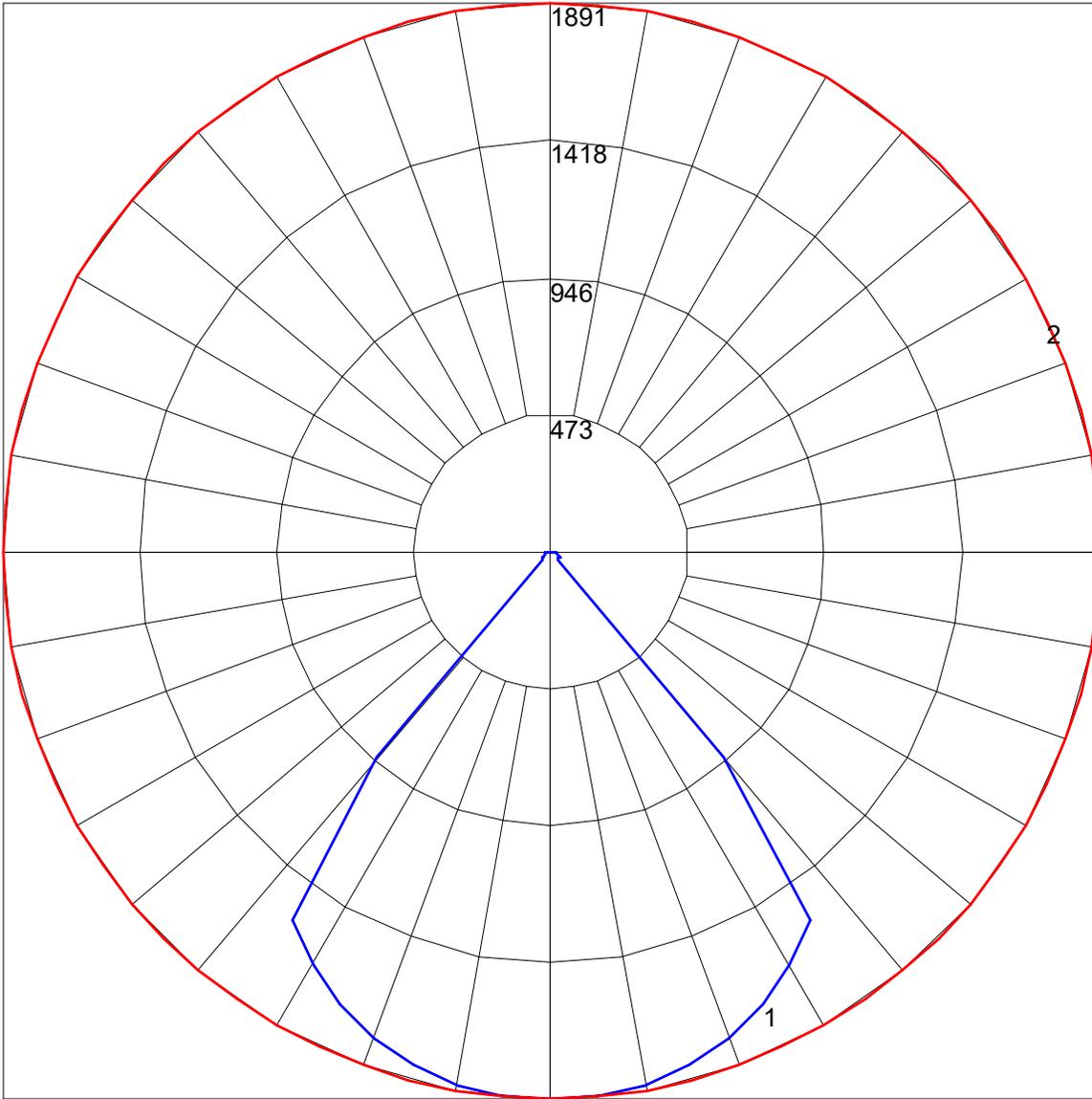
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	101	97	93	97	94	91	94	92	89	91	89	88	86
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	76	72	90	82	76	72	80	75	71	78	74	70	77	73	70	68
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	64
7	82	72	66	62	81	72	66	62	70	65	61	69	64	61	68	64	61	59
8	78	68	62	58	77	67	62	57	66	61	57	65	60	57	64	60	57	55
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52
10	70	60	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49

POLAR GRAPH



Maximum Candela = 1891.184 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.)