

IES Report

BoxRail® | 107 | 40° Symmetric | 90 CRI | HO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	43	44	45	45
Total Lumens, 4' rail length (1219mm)	2067	2132	2176	2197
Lumens per foot (305mm)	517	533	544	549
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-S1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911509R01 (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-S1-AL
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, 40° white symmetric 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	2176
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.01 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	81243	135204	259970
55	61746	93045	183206
65	52766	71085	131821
75	46524	56515	94774
85	3602	19719	55800

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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>
0.0	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486
1.0	1707.815	1716.973	1720.317	1735.042	1745.074	1750.888	1745.397	1749.691	1753.111	1756.778
3.0	1686.630	1689.974	1690.601	1719.994	1737.113	1743.877	1739.412	1743.003	1747.544	1751.439
5.0	1644.260	1639.491	1664.172	1683.761	1709.240	1715.776	1714.579	1720.944	1727.879	1732.420
7.0	1585.816	1573.618	1599.990	1629.535	1655.888	1666.395	1674.356	1682.488	1691.646	1699.835
9.0	1515.725	1498.853	1529.120	1571.946	1603.239	1614.563	1624.918	1636.299	1649.675	1662.823
11.0	1430.681	1406.950	1441.986	1487.776	1518.119	1539.551	1553.801	1569.324	1586.766	1604.284
13.0	1329.544	1298.574	1318.809	1371.686	1422.169	1452.816	1470.505	1492.640	1513.502	1537.556
15.0	1259.624	1228.103	1289.017	1344.687	1361.236	1382.592	1405.848	1432.030	1460.302	1489.372
17.0	1136.846	1137.473	1165.593	1234.316	1256.679	1281.607	1307.656	1337.828	1372.237	1407.520
19.5	999.400	986.252	1027.425	1086.914	1120.753	1147.828	1179.121	1214.955	1254.380	1296.503
22.5	842.365	841.396	872.214	928.359	956.156	986.575	1022.010	1061.188	1107.054	1156.663
25.5	695.039	701.328	721.791	769.405	803.016	833.986	870.390	913.311	961.723	1015.246
29.0	558.543	543.172	574.161	617.633	643.359	672.657	708.016	750.386	799.824	854.373
33.0	420.774	412.110	431.528	471.428	494.513	520.486	551.608	589.912	636.272	687.306
37.5	312.949	312.170	325.850	350.303	367.498	387.980	413.383	445.227	484.405	528.675
42.5	231.724	226.157	238.982	256.025	269.230	284.202	302.841	326.971	356.364	391.229
47.5	178.543	174.800	183.483	195.187	203.851	214.054	227.278	244.473	266.057	291.536
55.0	126.464	124.393	128.687	134.349	138.643	144.780	152.266	162.127	174.724	190.570
65.0	79.629	79.800	80.750	82.745	84.968	87.362	90.706	94.924	100.415	107.274
75.0	42.997	42.598	43.244	43.871	44.517	45.391	46.512	47.861	49.856	52.231
85.0	1.121	1.197	1.197	1.425	1.672	2.071	2.717	3.420	4.389	6.137
90.0	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>
0.0	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486
1.0	1758.925	1760.844	1767.209	1768.558	1772.073	1772.700	1773.574	1772.472	1772.947
3.0	1754.080	1756.778	1761.319	1762.269	1773.194	1770.724	1771.427	1771.750	1772.149
5.0	1737.265	1742.927	1747.620	1751.914	1758.222	1760.768	1762.991	1768.007	1764.036
7.0	1708.518	1716.878	1725.162	1731.546	1742.756	1747.468	1751.363	1753.282	1755.904
9.0	1676.199	1688.131	1698.486	1709.487	1719.196	1726.758	1734.320	1739.507	1747.145
11.0	1622.277	1639.719	1656.363	1672.684	1684.084	1695.541	1707.093	1715.852	1723.414
13.0	1561.116	1584.144	1606.108	1628.965	1645.457	1660.030	1677.149	1684.388	1694.116
15.0	1520.665	1548.139	1576.164	1600.066	1621.802	1639.320	1651.100	1657.636	1660.980
17.0	1443.981	1478.219	1511.583	1544.244	1570.768	1588.989	1606.279	1617.584	1621.479
19.5	1340.545	1381.794	1423.195	1464.843	1498.454	1525.757	1544.073	1557.145	1562.712
22.5	1208.590	1258.275	1309.252	1359.165	1399.711	1434.747	1459.751	1474.324	1480.385
25.5	1072.664	1128.163	1186.132	1242.353	1291.563	1332.888	1359.887	1379.400	1386.240
29.0	914.584	974.947	1038.578	1098.941	1153.243	1201.180	1231.523	1255.102	1263.139
33.0	747.042	806.037	870.219	934.648	992.617	1033.866	1075.039	1100.841	1110.569
37.5	581.077	634.904	693.690	754.756	811.376	860.985	899.612	924.217	930.905
42.5	431.205	477.242	526.376	579.880	630.686	675.450	710.239	731.025	739.784
47.5	321.233	357.637	396.492	438.862	480.111	518.339	547.162	565.307	573.040
55.0	207.917	229.501	254.505	281.352	308.427	334.305	356.117	369.664	375.231
65.0	115.786	125.818	137.522	150.822	164.521	177.745	188.898	196.460	198.930
75.0	55.347	59.166	63.555	68.723	73.891	79.230	83.695	86.488	87.590
85.0	8.683	11.552	13.927	14.972	15.694	16.397	17.043	17.290	17.366
90.0	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	547.33	N.A.	25.20
0-30	1008.45	N.A.	46.30
0-40	1376.82	N.A.	63.30
0-60	1882.64	N.A.	86.50
0-80	2137.77	N.A.	98.20
0-90	2176.01	N.A.	100.00
10-90	2044.27	N.A.	93.90
20-40	829.50	N.A.	38.10
20-50	1158.25	N.A.	53.20
40-70	667.83	N.A.	30.70
60-80	255.13	N.A.	11.70
70-80	93.12	N.A.	4.30
80-90	38.23	N.A.	1.80
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	2176.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.74
10-20	415.59
20-30	461.12
30-40	368.38
40-50	328.75
50-60	177.07
60-70	162.01
70-80	93.12
80-90	38.23
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

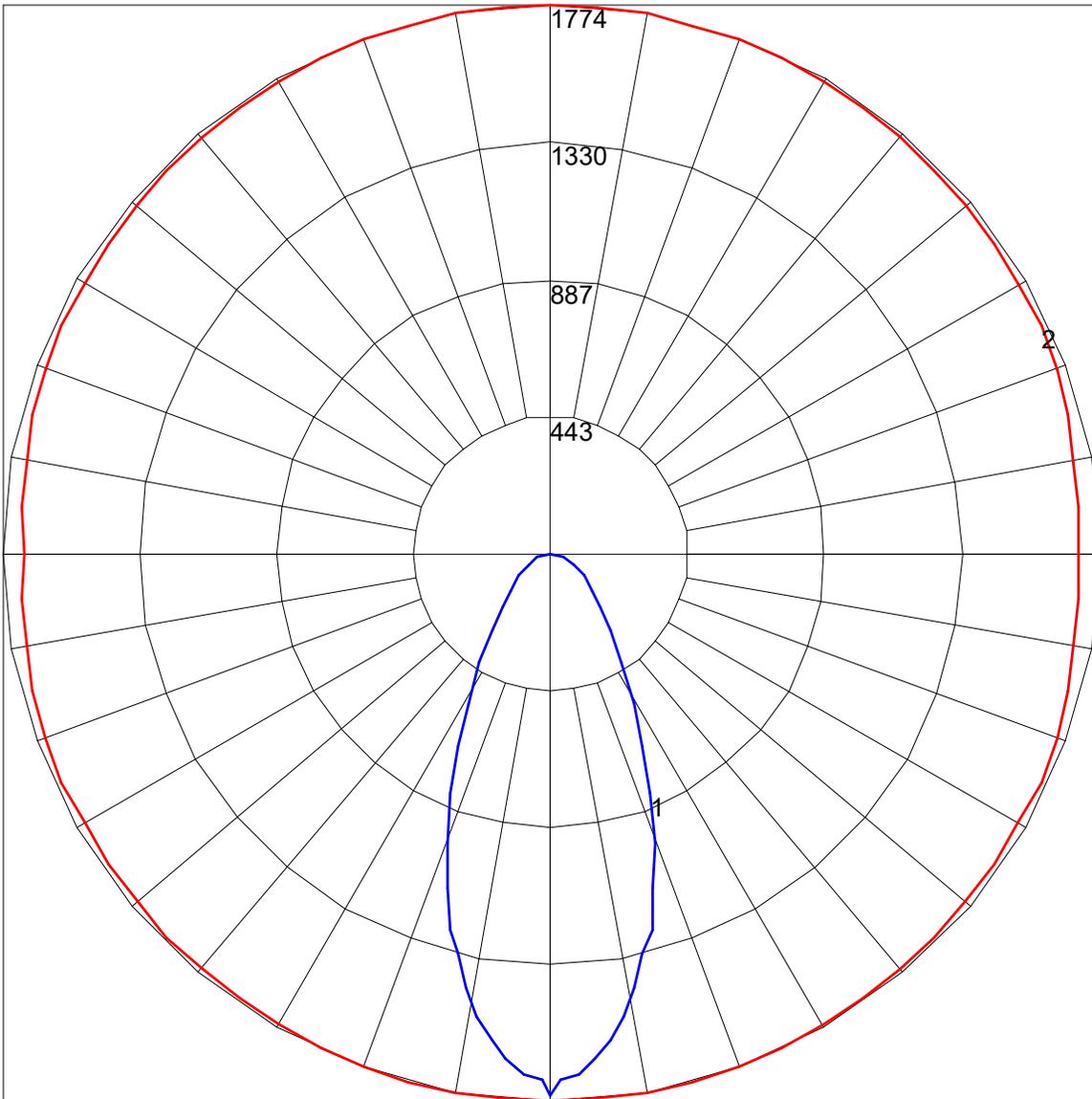
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87	
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76	
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68	
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	70	66	62	60	
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54	
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49	
7	73	61	53	48	71	60	53	48	59	52	47	57	52	47	56	51	47	45	
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	41	
9	65	53	45	41	63	52	45	40	51	45	40	50	44	40	49	44	40	38	
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36	

POLAR GRAPH



Maximum Candela = 1773.574 Located At Horizontal Angle = 80, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)