

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	31	32	33	33
Total Lumens, 4' rail length (1219mm)	1500	1547	1579	1595
Lumens per foot (305mm)	375	387	395	399
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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911512 (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-BL
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, 40° black 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	1579
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	32
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.84
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	47685	76543	181817
55	23099	36587	100625
65	11608	20636	57840
75	8264	13260	35155
85	0	4579	18926

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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	1565.980	1565.980	1565.980	1565.980	1565.980	1565.980	1565.980	1565.980	1565.980	1565.980
1.0	1449.643	1480.138	1505.769	1531.267	1544.320	1547.417	1551.882	1554.029	1557.297	1601.814
3.0	1487.073	1493.362	1514.376	1535.162	1551.483	1558.570	1560.812	1562.085	1563.833	1601.586
5.0	1459.998	1473.051	1501.152	1521.786	1532.844	1540.026	1543.997	1547.417	1550.780	1555.473
7.0	1421.124	1440.561	1463.019	1485.230	1497.333	1504.268	1506.814	1511.507	1518.119	1525.453
9.0	1392.301	1403.777	1430.529	1451.619	1463.570	1459.105	1461.423	1468.111	1488.897	1501.874
11.0	1383.694	1376.303	1386.734	1399.236	1400.984	1394.220	1399.787	1411.168	1426.539	1447.401
13.0	1303.590	1296.655	1302.469	1315.940	1319.037	1312.349	1319.512	1328.670	1352.971	1378.279
15.0	1110.569	1119.233	1144.807	1160.254	1177.050	1206.443	1225.063	1250.314	1278.510	1305.908
17.0	1061.340	1057.445	1069.301	1084.995	1097.972	1117.010	1132.704	1161.679	1195.290	1229.851
19.5	993.491	983.706	980.989	987.696	984.333	992.389	981.160	1015.474	1056.970	1101.639
22.5	742.026	748.068	753.806	762.489	792.661	816.563	849.851	852.074	900.087	951.140
25.5	657.609	648.128	647.805	650.674	659.357	678.319	705.223	701.328	751.013	804.536
29.0	507.262	495.881	492.936	502.493	510.283	520.239	537.605	575.434	620.179	671.137
33.0	336.053	340.423	337.003	340.347	351.025	368.220	394.896	429.780	436.943	485.355
37.5	215.973	218.595	217.797	223.136	233.795	248.767	268.527	295.032	299.573	338.200
42.5	147.953	143.735	142.937	146.205	152.266	156.788	170.487	188.651	211.736	241.053
47.5	92.853	92.131	91.029	92.701	95.323	100.092	97.945	110.447	126.141	145.483
55.0	47.310	46.588	45.866	46.740	48.184	50.806	49.932	56.468	64.828	74.936
65.0	17.518	17.993	18.069	18.639	19.836	21.261	23.332	25.954	26.999	31.141
75.0	7.638	7.638	7.562	7.961	8.132	8.512	9.310	10.279	10.678	12.255
85.0	0.000	0.000	0.000	0.000	0.152	0.152	0.323	0.475	0.798	1.425
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	1565.980	1565.980	1565.980	1565.980	1565.980	1565.980	1565.980	1565.980	1565.980
1.0	1603.087	1604.531	1605.633	1607.381	1609.376	1610.345	1611.124	1611.694	1612.720
3.0	1603.011	1604.930	1606.431	1608.179	1609.547	1610.972	1612.245	1612.568	1613.195
5.0	1589.065	1593.530	1596.950	1600.465	1604.132	1605.880	1607.628	1608.274	1609.376
7.0	1556.024	1563.833	1571.547	1579.204	1584.771	1589.160	1592.257	1594.328	1596.323
9.0	1515.725	1528.626	1540.976	1551.407	1560.964	1567.728	1573.219	1576.810	1578.634
11.0	1466.838	1485.705	1503.071	1519.639	1531.666	1542.325	1550.932	1556.347	1558.741
13.0	1404.252	1429.655	1453.462	1476.319	1495.034	1508.486	1520.665	1527.600	1529.747
15.0	1335.757	1364.105	1390.876	1422.967	1446.204	1467.788	1484.204	1494.711	1504.420
17.0	1266.483	1301.994	1332.337	1370.318	1402.010	1427.584	1445.330	1459.029	1464.292
19.5	1150.051	1197.988	1244.101	1289.568	1327.397	1356.619	1381.471	1395.968	1397.393
22.5	1007.361	1062.860	1117.561	1172.433	1216.874	1255.729	1286.946	1306.782	1312.672
25.5	862.904	924.540	986.100	1048.363	1101.886	1144.883	1181.040	1203.251	1209.616
29.0	699.333	762.888	828.894	893.722	949.468	1001.870	1044.392	1070.669	1083.323
33.0	541.500	602.414	664.221	730.075	789.963	840.522	882.170	909.720	917.681
37.5	384.636	436.392	492.214	550.981	603.212	653.220	693.766	719.967	728.004
42.5	276.488	313.196	355.167	400.387	427.386	471.276	507.661	530.841	541.975
47.5	169.613	197.562	229.254	263.815	297.502	327.617	354.521	371.887	376.181
55.0	87.685	102.733	120.080	139.042	157.187	175.826	191.520	202.103	206.093
65.0	36.309	42.370	49.457	57.494	65.531	73.815	80.674	85.443	87.286
75.0	14.022	16.245	18.791	21.812	24.681	27.550	30.172	31.939	32.490
85.0	2.223	3.192	3.990	4.389	4.693	5.016	5.339	5.738	5.890
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	492.54	N.A.	31.20
0-30	882.80	N.A.	55.90
0-40	1165.18	N.A.	73.80
0-60	1472.49	N.A.	93.20
0-80	1568.83	N.A.	99.30
0-90	1579.29	N.A.	100.00
10-90	1459.97	N.A.	92.40
20-40	672.64	N.A.	42.60
20-50	887.64	N.A.	56.20
40-70	374.08	N.A.	23.70
60-80	96.33	N.A.	6.10
70-80	29.57	N.A.	1.90
80-90	10.46	N.A.	0.70
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	1579.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	119.32
10-20	373.22
20-30	390.26
30-40	282.38
40-50	215.01
50-60	92.31
60-70	66.76
70-80	29.57
80-90	10.46
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

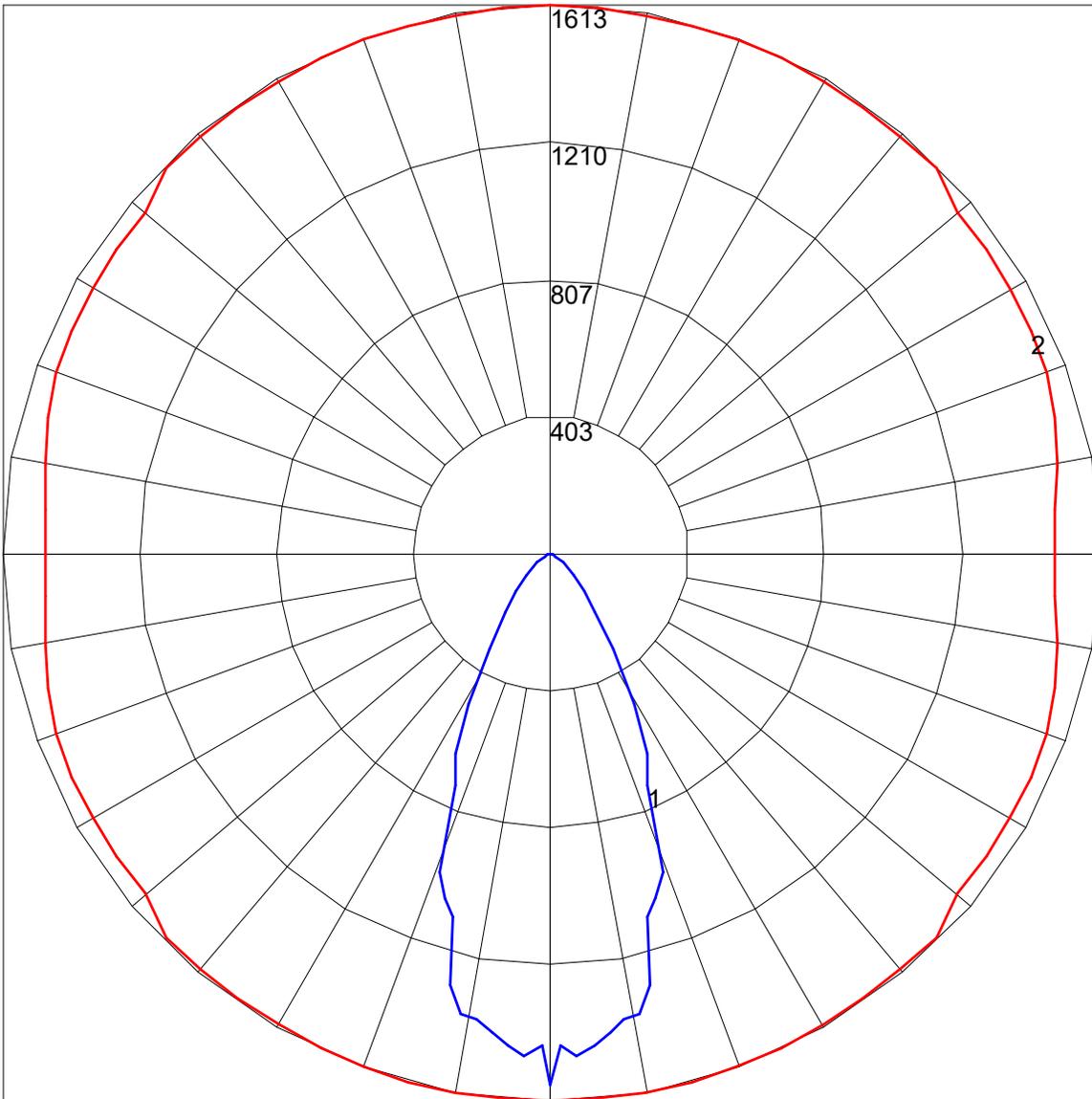
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	81	78	75	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	55	76	66	59	54	64	58	54	63	58	54	62	57	53	52
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48
9	69	58	51	47	68	58	51	47	56	51	47	56	50	46	55	50	46	45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42

POLAR GRAPH



Maximum Candela = 1613.195 Located At Horizontal Angle = 90, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)