

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	28	29	30	30
Total Lumens, 4' rail length (1219mm)	1371	1414	1443	1472
Lumens per foot (305mm)	343	353	361	368
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	96	96	96	96

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] L071704207 (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-359-BB
 [LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,
 [MORE] black baffle, high output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1444
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	29
Total Luminaire Watts	49.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.84
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	1623	4633	1948
55	1784	1251	902
65	1810	758	412
75	1869	869	217
85	1935	1515	256

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	1674.026	1674.026	1674.026	1674.026	1674.026	1674.026	1674.026	1674.026	1674.026	1674.026
5	1675.675	1673.813	1670.767	1665.684	1659.243	1651.580	1643.529	1634.916	1626.457	1618.154
10	1659.398	1654.238	1640.794	1621.374	1598.114	1574.504	1550.506	1524.413	1497.176	1471.975
15	1624.614	1613.653	1585.775	1550.021	1509.592	1464.079	1418.819	1372.337	1324.904	1281.971
20	1576.114	1557.839	1514.500	1459.966	1395.772	1329.249	1260.302	1197.387	1142.291	1095.654
25	1521.348	1493.082	1431.933	1353.325	1264.240	1173.797	1098.719	1031.711	963.967	893.564
30	1453.196	1416.161	1336.408	1236.459	1124.657	1033.322	949.882	852.824	751.653	666.759
35	1363.316	1313.865	1215.022	1091.308	979.836	880.527	766.707	642.994	564.133	473.127
40	706.703	712.756	738.519	755.766	751.808	679.485	567.043	467.967	350.209	230.530
45	32.864	33.834	35.289	37.772	57.754	104.547	162.378	189.848	130.077	93.838
50	30.283	29.876	28.518	26.985	25.453	24.813	26.093	30.846	38.994	45.668
55	29.313	28.518	26.345	23.843	21.262	18.934	17.324	16.917	17.964	20.545
60	28.518	27.141	24.560	21.515	18.449	15.947	14.104	12.882	12.164	12.086
65	21.903	21.185	19.322	17.557	15.384	13.696	12.164	10.961	9.913	9.176
70	17.557	17.072	15.869	14.414	13.056	11.679	10.554	9.428	8.536	7.566
75	13.852	13.444	12.571	11.679	10.786	9.913	8.943	8.051	7.256	6.441
80	11.116	10.883	10.069	9.351	8.614	7.896	7.256	6.615	5.956	5.316
85	4.831	4.908	4.908	4.753	4.753	4.675	4.598	4.346	4.113	3.783
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	1674.026	1674.026	1674.026	1674.026	1674.026	1674.026	1674.026	1674.026	1674.026
5	1610.103	1602.770	1596.174	1590.606	1585.853	1581.837	1579.335	1577.647	1577.084
10	1448.365	1426.792	1406.810	1388.846	1374.180	1361.861	1353.014	1348.009	1346.069
15	1243.618	1211.239	1183.691	1159.383	1140.371	1125.064	1114.278	1108.225	1106.207
20	1052.974	1009.557	967.672	929.570	898.239	871.739	852.339	840.330	836.392
25	824.054	759.626	708.721	670.309	639.928	615.620	596.841	585.007	581.379
30	602.719	543.918	481.993	423.269	371.723	330.712	301.088	283.124	276.916
35	374.614	280.466	207.250	158.362	131.687	108.970	97.466	91.975	90.210
40	147.886	107.612	86.912	77.173	70.965	66.212	62.662	60.412	59.597
45	76.766	67.900	60.334	53.796	48.810	44.872	41.962	40.042	39.460
50	47.045	44.135	39.712	35.521	31.816	29.003	26.830	25.298	24.813
55	23.610	24.890	23.998	22.000	19.904	17.964	16.354	15.229	14.822
60	12.726	13.541	13.696	13.134	12.164	11.039	9.991	9.099	8.691
65	8.614	8.381	8.303	8.129	7.488	6.771	6.033	5.471	4.986
70	6.848	6.208	5.801	5.393	4.908	4.520	3.861	3.298	2.910
75	5.645	4.986	4.520	3.938	3.473	3.065	2.580	2.018	1.610
80	4.598	4.113	3.550	2.988	2.503	2.173	1.765	1.280	0.970
85	3.473	2.988	2.580	2.173	1.862	1.533	1.203	0.892	0.640
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	520.13	N.A.	36.00
0-30	956.05	N.A.	66.20
0-40	1301.96	N.A.	90.20
0-60	1421.78	N.A.	98.40
0-80	1440.83	N.A.	99.80
0-90	1444.18	N.A.	100.00
10-90	1293.6	N.A.	89.60
20-40	781.84	N.A.	54.10
20-50	881.68	N.A.	61.10
40-70	131.31	N.A.	9.10
60-80	19.04	N.A.	1.30
70-80	7.55	N.A.	0.50
80-90	3.35	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	1444.18	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	150.57
10-20	369.55
20-30	435.92
30-40	345.92
40-50	99.85
50-60	19.97
60-70	11.49
70-80	7.55
80-90	3.35
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

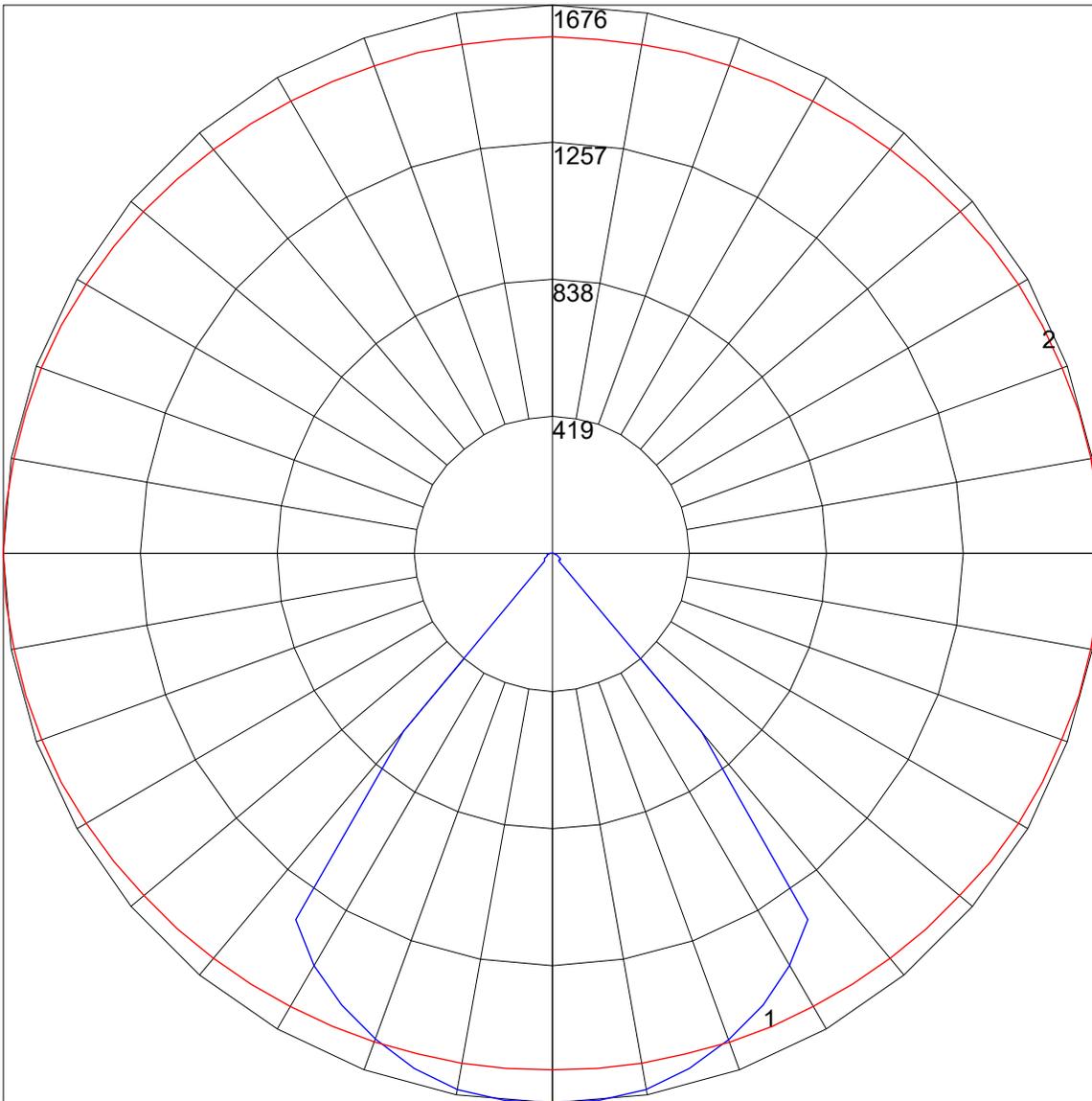
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	0
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	0
2	107	102	98	95	105	101	97	93	97	94	91	94	92	89	92	89	88	86	0
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	83	81	79	0
4	96	89	83	78	95	87	82	78	85	81	77	83	79	76	81	78	75	74	0
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68	0
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64	0
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	59	0
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	64	60	57	56	0
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	53	52	0
10	71	61	55	51	70	60	55	51	59	54	51	59	54	50	58	53	50	49	0

POLAR GRAPH



Maximum Candela = 1675.675 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)